

**VIA ELECTRONIC MAIL**

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Date: July 18, 2024

Our Ref: 30205536.0400

Subject: Hercules Hattiesburg Facility – Hattiesburg, MS – Monthly Progress Report (June 2024)

USEPA Region IV, RCRA 3013(a) Administrative Order  
Docket # RCRA-04-2011-4251

USEPA Region IV, RCRA 3008(h) Administrative Order on Consent  
Docket # RCRA-04-2014-4201(b)

USEPA Region IV, CERCLA Administrative Settlement Agreement and Order on Consent  
Docket # 04-2023-2521

Dear Ms. Lloyd and Mr. Budeir:

This *Monthly Progress Report* summarizes the activities accomplished between June 1 and June 30, 2024, per the 2011 Resource Conservation and Recovery Act (RCRA) 3013(a) Administrative Order, the 2014 RCRA 3008(h) Administrative Order on Consent, and the 2022 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Settlement Agreement and Order on Consent (ASAOC) for the Remedial Investigation (RI)/Feasibility Study (FS) for the former Hercules LLC (Hercules) site in Hattiesburg, Mississippi, referred to herein as “the site.”

## **Tasks Initiated, Continued, or Completed during June 2024**

The following summary is intended to document significant activities (e.g., field work, conference calls, technical deliverables, correspondence) performed throughout the reporting period, and is not intended to capture all email correspondence between the U.S. Environmental Protection Agency (USEPA) and Hercules over that same period.

- As requested by the USEPA, submitted an *Interim Vapor Intrusion Investigation Summary Report* on June 3, 2024, summarizing the vapor intrusion investigation activities conducted in January 2024. The collection of certain soil gas samples proposed in the USEPA-approved *Revised Addendum to the Vapor Intrusion Investigation Work Plan* (dated January 4, 2024) was not feasible due to elevated depth-to-groundwater conditions at that time.
- Submitted a draft fact sheet to the USEPA on June 3, 2024, to support sharing the results of the completed vapor intrusion investigation activities with the residents in the investigation area.
- Submitted the *2023 Second Semiannual Consolidated Monitoring Report* on June 7, 2024, summarizing the November 2023 sampling event for the Restrictive Use Agreed Order (RUAO), Area #1, Area #2, Area #3, Poly Pale™ Area, and Northeast Delineation monitoring programs. The sampling activities were conducted as agreed in the ASAOC.
- Submitted the *Monthly Progress Report* for May 2024 to the Agencies on June 20, 2024.
- Continued to collect depth-to-groundwater measurements using a transducer installed in piezometer TP-18. The available data are included as **Attachment A** to this *Monthly Progress Report*, which indicates that the criterion agreed upon by the USEPA and Hercules (i.e., a depth-to-groundwater of at least seven feet below grade) to complete collection of the remaining soil gas samples proposed in the USEPA-approved *Revised Addendum to the Vapor Intrusion Investigation Work Plan* (dated January 4, 2024) has not yet been achieved. Collection of the remaining samples will proceed per the approved work plan when this criterion is achieved.
- Initiated data management and evaluation for the groundwater and surface water samples collected during the 2024 first semiannual monitoring event conducted during the weeks of May 6 and May 13, 2024. Copies of the laboratory analytical reports are provided in **Attachment B**. Analytical data summary tables are provided in **Table 1** for groundwater within the alluvial aquifer, **Table 2** for groundwater within the Hattiesburg Formation, and **Table 3** for surface water from Greens Creek. **Table 4** presents the analytical data for quality assurance/quality control samples.

## Challenges and/or Delays

- None this period.

## Tasks Planned for Next Three Months (July – September 2024)

- Continue to monitor depth-to-groundwater levels in TP-18 to determine when the criterion for collection of the remaining soil gas samples has been achieved so the scope in the USEPA-approved *Revised Addendum to the Vapor Intrusion Investigation Work Plan* can be completed.
- Preparation of a *Revised Vapor Intrusion Investigation Summary Report* addressing previous comments from the USEPA and documenting the results of the current phase of the vapor intrusion investigation. Per the USEPA-approved *Revised Addendum to the Vapor Intrusion Investigation Work Plan*, it was previously agreed with the USEPA that the report will be submitted six weeks following completion of the final field activity. As noted previously, the collection of certain soil gas samples proposed therein remains to be completed.
- Review comments received on July 3, 2024, from the USEPA on the *Remedial Investigation/Feasibility Study Work Plan* (RI/FS Work Plan) submitted by Hercules on December 4, 2023. Hercules will request a meeting to discuss the comments and the path forward for the project.

Ms. Diedre Lloyd and Mr. Maher Budeir  
July 18, 2024

- Hercules is awaiting comments from the USEPA and Mississippi Department of Environmental Quality (MDEQ) (together, the Agencies) on the following seven RI Deliverables submitted in March 2024:
  - *Emergency Response and Notification Plan.*
  - *Data Management Plan.*
  - *Health and Safety Plan.*
  - *Sampling and Analysis Plan.*
  - *Field Sampling Plan.*
  - *Quality Assurance Project Plan.*
  - *Reuse Assessment.*
- Preparation of the *2024 First Semiannual Consolidated Monitoring Report* summarizing the May 2024 sampling event for the RUAO, Area #1, Area #2, Area #3, Poly Pale™ Area, Northeast Delineation, and Hattiesburg Formation monitoring programs.
- Continue discussions with the USEPA regarding the implementation of the proposed Operable Unit (OU) concept for management of the site, including the mechanisms of how the OU approach would potentially be implemented in relation to the RI/FS (e.g., deliverables, timing, eventual Record of Decision) and requirements in the ASAOC.

## Personnel and/or Project Changes

- None this period.

## Community Involvement

- None this period.

## USEPA/MDEQ Support Needed

- Hercules received comments from the USEPA on July 3, 2024, regarding the RI/FS Work Plan submitted on December 4, 2023. Hercules is awaiting comments from the Agencies on the seven RI Deliverables submitted in March 2024 that support the proposed scope in the RI/FS Work Plan.
- Hercules requests participation by the Agencies in working meetings to discuss the recently received comments from the USEPA on the *RI/FS Work Plan* and continue evaluating the OU concept for management of the site.

The Hercules team appreciates your support with this project. If there are any questions concerning this submittal, please contact the Project Coordinator, Mr. Timothy Hassett, at 302-995-3456 or Mr. Corey Averill with Arcadis at 315-671-9224.

Ms. Diedre Lloyd and Mr. Maher Budeir  
July 18, 2024

Sincerely,

Arcadis U.S., Inc.



Corey Averill  
Certified Project Manager

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- CC. Cassandra Johnson – MDEQ, Jackson, MS (electronic)  
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Timothy Hassett – Hercules, Wilmington, DE (electronic)  
Gloria Tatum – Tatum & Associates, Jackson, MS (electronic)

# Tables

**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15		
				Sample Date:	5/13/2024	5/13/2024	5/13/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/15/2024	5/15/2024	5/15/2024
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO Poly Pale	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
<b>Volatile Organic Compounds Method 8260B</b>																					
1,1,1,2-Tetrachloroethane	0.57	NS	0.4057	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,1,1-Trichloroethane	8000	200	200	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
1,1,2,2-Tetrachloroethane	0.076	NS	0.0527	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.79	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
1,1,2-Trichloroethane	0.28	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,1-Dichloroethane	2.8	NS	798.44	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,1-Dichloroethene	280	7	7	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,2,3-Trichloropropane	0.00075	NS	0.0062	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,2,4-Trimethylbenzene	56	NS	12.326	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
1,2-Dibromoethane	0.0075	0.05	0.05	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
1,2-Dichloroethane	0.17	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,2-Dichloropropane	0.85	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
1,3,5-Trimethylbenzene	60	NS	12.326	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
1,3-Butadiene	0.071	NS	0.0070	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
2,2,4-Trimethylpentane	NS	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<b>0.566 J</b>	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
2-Butanone (MEK)	5600	NS	1906.09	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U		
2-Chlor-1,3-Butadiene	0.019	NS	14.314	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
2-Methyl-1-propanol	730	NS	1825	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U		
4-Methyl-2-Pentanone	6300	NS	139.05	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U		
Acetone	18000	NS	608.33	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<2000 U	<100 U	<100 U	<100 U	<100 U	<2000 U	<b>8.26 J</b>	<b>11.2 J</b>		
Acetonitrile	130	NS	125.14	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<2000 U	<100 U	<100 U	<100 U	<100 U	<2000 U	<100 U	<100 U		
Acrolein	0.042	NS	0.0416	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U		
Acrylonitrile	0.052	NS	0.0367	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<1000 U	<50.0 U	<50.0 U		
Allyl chloride	0.73	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Benzene	0.46	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>562</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>178</b>	<1.00 U	<1.00 U		
Benzyl Chloride	0.089	NS	0.0621	<5.00 U	<5.00 U	<5.00 U	<5.00 U*	<5.00 U*	<5.00 U*	<5.00 U*	<5.00 U*	<100 U*	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U*	<5.00 U*	<5.00 U*		
Bromodichloromethane	0.13	80	0.1679	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Bromoform	3.3	80	8.478	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Bromomethane	7.5	NS	8.517	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Carbon Disulfide	810	NS	1042.86	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Carbon Tetrachloride	0.46	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<b>5700 H</b>	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<b>686</b>	<5.00 U	<5.00 U		
CFC-11	5200	NS	1288.24	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
CFC-12	200	NS	347.62	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Chlorobenzene	78	100	100	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>108</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Chlorodibromomethane	0.87	80	0.1256	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Chloroethane	8300	NS	3.638	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
Chloroform	0.22	80	0.1546	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>895</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>166</b>	<1.00 U	<1.00 U		
Chloromethane	190	NS	1.434	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
cis-1,2-Dichloroethene	25	70	70	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
cis-1,3-Dichloropropene	NS	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Cyclohexane	13000	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<b>129</b>	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Dibromomethane	8.3	NS	60.833	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Dichloromethane	11	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<b>73.0 J</b>	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Ethyl Methacrylate	630	NS	547.5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Ethylbenzene	1.5	700	700	<1.00 U	&lt																

**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15		
				Sample Date:	5/13/2024	5/13/2024	5/13/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/15/2024	5/15/2024	5/15/2024
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
<b>Volatile Organic Compounds Method 8260B (continued)</b>																					
n-Propylbenzene	660	NS	243.33	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
o-Xylene	190	NS	12166.67	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>13.2 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Propionitrile	NS	NS	NS	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
Styrene (Monomer)	1200	100	100	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Tetrachloroethene	11	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Tetrahydrofuran	3400	NS	NS	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
Toluene	1100	1000	1000	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
Total Xylenes	190	10000	10000	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
trans-1,2-Dichloroethene	68	100	100	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<20.0 U	<1.00 U	<1.00 U		
trans-1,3-Dichloropropene	NS	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
trans-1,4-Dichloro-2-butene	0.0013	NS	NS	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<200 U	<10.0 U	<10.0 U		
Trichloroethene	0.49	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<100 U	<5.00 U	<5.00 U		
Vinyl acetate	410	NS	412.12	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<400 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<400 U	<20.0 U	<20.0 U		
Vinyl chloride	0.019	2	2	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U		
<b>Semivolatile Organic Compounds Method 8270D</b>																					
1,1-Biphenyl	0.83	NS	304.17	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.107 JI</b>	<b>0.257 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1,2,4-Trichlorobenzene	1.2	70	70	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.161 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1,2-Dichlorobenzene	300	600	600	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>1.32</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.262 J</b>	<0.571 U	<0.571 U		
1,3,5-Trinitrobenzene	590	NS	1095	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1,3-Dichlorobenzene	NS	NS	5.475	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.221 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1,3-Dinitrobenzene	2	NS	3.65	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1,4-Dichlorobenzene	0.48	75	75	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>1.90</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.357 J</b>	<0.571 U	<0.571 U		
1,4-Dioxane	0.46	NS	6.088	<0.571 U	<b>0.903</b>	<b>0.513 J</b>	<b>2.39</b>	<b>49.5</b>	<b>0.235 J</b>	<b>0.460 J</b>	<b>404</b>	<b>8.88</b>	<b>0.210 JI</b>	<b>0.158 JI</b>	<b>0.141 J</b>	<b>62.5</b>	<b>210</b>	<b>1120</b>			
1,4-Naphthoquinone	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
1-Naphthylamine	NS	NS	NS	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*		
2,2-Oxybis(1-Chloropropane)	710	NS	0.2604	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U		
2,3,4,6-Tetrachlorophenol	240	NS	1095	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,4,5-Trichlorophenol	1200	NS	3650	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,4,6-Trichlorophenol	4.1	NS	6.088	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,4-Dichlorophenol	46	NS	109.5	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,4-Dimethylphenol	360	NS	730	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,4-Dinitrophenol	39	NS	73	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<b>0.355 J</b>	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<b>0.442 J</b>		
2,4-Dinitrotoluene	0.24	NS	73	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,6-Dichlorophenol	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2,6-Dinitrotoluene	0.049	NS	36.5	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2-Acetylaminofluorene	0.016	NS	NS	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*		
2-Chloronaphthalene	750	NS	486.67	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2-Chlorophenol	91	NS	30.417	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.392 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U	<1.14 U	<1.14 U		
2-Methylnaphthalene	36	NS	121.67	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.125 JI</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2-Methylphenol	930	NS	1825	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
2-Naphthylamine	0.039	NS	NS	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.553 JI</b>	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*		
2-Nitroaniline	190	NS	0.4171	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*		
2-Nitrophenol	NS	NS	0.4161	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.57													





**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15		
				Sample Date:	5/13/2024	5/13/2024	5/13/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/15/2024	5/15/2024	5/15/2024
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>																					
Naphthalene	0.12	NS	6.204		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	0.119 JI	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Nitrobenzene	0.14	NS	3.532		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosodiethylamine	0.00017	NS	0.0004		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
N-Nitrosodimethylamine	0.00011	NS	0.0013		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosodi-n-butylamine	0.0027	NS	0.0019		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
N-Nitrosodi-n-propylamine	0.011	NS	0.0096		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosodiphenylamine	12	NS	13.668		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosomorpholine	0.012	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitroso-N-methylethylamine	0.00071	NS	0.0030		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosopiperidine	0.0082	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
N-Nitrosopyrrolidine	0.037	NS	0.0319		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U		
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	8.60	3.81	<0.571 U	0.782	3070	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U		
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
o-Toluidine	4.7	NS	0.2791		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Parathion	86	NS	219		<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U		
p-Chloroaniline	0.37	NS	146		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pentachlorobenzene	3.2	NS	29.2		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pentachloronitrobenzene	0.12	NS	0.2576		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pentachlorophenol	0.041	1	1		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
Phenacetin	34	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Phenanthrene	NS	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Phenol	5800	NS	21900		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	5.48	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	2.22 J	<2.86 U		
Phorate	3	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
p-Phenylenediamine	20	NS	6935		<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*		
Propylamide	1200	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pyrene	120	NS	182.5		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pyridine	20	NS	36.5		<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U	<2.86 U		
Safrole	0.096	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Sulfotep	7.1	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
<b>Delnav Method 8321A</b>																					
Dioxathion	NS	NS	54.8		---	---	---	<0.315 U	---	---	---	<0.315 U	---	---	---	---	<0.315 U	<0.315 U	<0.315 U		

Notes on Page 16.

**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-16	MW-17	Duplicate MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-27D	MW-31D	MW-32D	MW-33S
				Sample Date:	5/15/2024	5/15/2024	5/15/2024	5/14/2024	5/13/2024	5/13/2024	5/15/2024	5/14/2024	5/15/2024	5/13/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	Area #1	Area #1
<b>Volatile Organic Compounds Method 8260B</b>																			
1,1,1,2-Tetrachloroethane	0.57	NS	0.4057	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.0527	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.79	<200 U	<5000 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.44	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.0062	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.326	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<b>6.27</b>	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.326	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<b>2.06</b>	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.0070	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS	<100 U	<2500 U	<100 U	<5.00 U	<b>19.9</b>	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.09	<1000 U	<25000 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.314	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825	<1000 U	<25000 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.05	<1000 U	<25000 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<b>23.2 J</b>	<2500 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.33	<2000 U	<50000 U	<b>221 J</b>	<100 U	<100 U	<100 U	<5000 U	<b>12.7 J</b>	<5000 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acetonitrile	130	NS	125.14	<2000 U	<50000 U	<2000 U	<100 U	<100 U	<100 U	<5000 U	<100 U	<5000 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acrolein	0.042	NS	0.0416	<1000 U	<25000 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.0367	<1000 U	<25000 U	<1000 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzene	<b>0.46</b>	5	5	<20.0 U	<b>728</b>	<b>713</b>	<1.00 U	<b>0.623 J</b>	<b>29.9</b>	<b>5250</b>	<b>43.2</b>	<b>4770</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Benzyl Chloride	0.089	NS	0.0621	<100 U*	<2500 U*	<100 U*	<5.00 U	<5.00 U	<5.00 U	<250 U*	<5.00 U	<250 U*	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.1679	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Bromoform	3.3	80	8.478	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromomethane	7.5	NS	8.517	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.86	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Tetrachloride	<b>0.46</b>	5	5	<100 U	<b>42200</b>	<b>57700 H</b>	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
CFC-11	5200	NS	1288.24	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.62	<20.0 U	<500 U	<20.0 U	<1.00 UF1	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorobenzene	<b>78</b>	100	100	<20.0 U	<b>807</b>	<b>811</b>	<b>16.9</b>	<1.00 U	<b>5.08</b>	<b>191</b>	<b>7.44</b>	<b>143</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorodibromomethane	0.87	80	0.1256	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Chloroethane	8300	NS	3.638	<200 U	<5000 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Chloroform	<b>0.22</b>	80	0.1546	<20.0 U	<b>1900</b>	<b>1830</b>	<1.00 U	<1.00 U	<1.00 U	<b>2100</b>	<1.00 U	<b>29.4 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chloromethane	190	NS	1.434	<200 U	<5000 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
cis-1,2-Dichloroethene	<b>25</b>	70	70	<20.0 U	<500 U	<b>40.8</b>	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
cis-1,3-Dichloropropene	NS	NS	NS	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Cyclohexane	13000	NS	NS	<100 U	<b>7700</b>	<2500 UH	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibromomethane	8.3	NS	60.833	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Dichloromethane	<b>11</b>	5	5	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<b>112 J</b>	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethyl Methacrylate	630	NS	547.5	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethylbenzene	<b>1.5</b>	700	700	<20.0 U	<500 U	<b></b>													

**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-16	MW-17	Duplicate MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-27D	MW-31D	MW-32D	MW-33S
				Sample Date:	5/15/2024	5/15/2024	5/15/2024	5/14/2024	5/13/2024	5/13/2024	5/15/2024	5/14/2024	5/15/2024	5/13/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024
				Program:	RAO	RAO	RAO	RAO	RAO	RAO	RAO	RAO	RAO	RAO	RAO	RAO	RAO	Area #1	Area #1
<b>Volatile Organic Compounds Method 8260B (continued)</b>																			
n-Propylbenzene	660	NS	243.33	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<b>2.24</b>	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.67	<20.0 U	<500 U	<b>101</b>	<1.00 U	<1.00 U	<b>1.22</b>	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile	NS	NS	NS	<200 U	<5000 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)	1200	100	100	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran	3400	NS	NS	<200 U	<5000 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<b>3.13 J</b>	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000	<20.0 U	<500 U	<b>41.0</b>	<1.00 U	<1.00 U	<b>3.30</b>	<b>5590</b>	<b>0.851 J</b>	<b>731</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes	190	10000	10000	<20.0 U	<5000 U	<b>203</b>	<1.00 U	<1.00 U	<b>7.63 J</b>	<500 U	<10.0 U	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene	68	100	100	<20.0 U	<500 U	<20.0 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS	<200 U	<5000 U	<200 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5	<100 U	<2500 U	<100 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.12	<400 U	<10000 U	<400 U	<20.0 U	<20.0 U	<20.0 U	<1000 U	<20.0 U	<1000 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2	<40.0 U	<1000 U	<b>9.37 J</b>	<2.00 U	<2.00 U	<2.00 U	<100 U	<2.00 U	<100 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<b>Semivolatile Organic Compounds Method 8270D</b>																			
1,1-Biphenyl	0.83	NS	304.17	<0.571 U	<b>0.176 J</b>	<b>0.138 J</b>	<b>0.120 JF1</b>	<b>1990</b>	<b>9.79</b>	<b>752</b>	<b>3370</b>	<b>336</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>725</b>
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95	<0.571 U	<b>0.186 J</b>	<b>0.167 J</b>	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
1,2,4-Trichlorobenzene	1.2	70	70	<0.571 U	<b>0.675</b>	<b>0.662</b>	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
1,2-Dichlorobenzene	300	600	600	<0.571 U	<b>11.3</b>	<b>11.8</b>	<b>0.197 JF1</b>	<b>0.349 J</b>	<0.571 U	<b>2.36</b>	<b>0.0963 J</b>	<b>1.66</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>1.49 J</b>
1,3,5-Trinitrobenzene	590	NS	1095	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
1,3-Dichlorobenzene	NS	NS	5.475	<0.571 U	<b>1.71</b>	<b>1.74</b>	<0.571 UF1	<0.571 U	<0.571 U	<b>0.221 J</b>	<0.571 U	<b>0.136 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
1,3-Dinitrobenzene	2	NS	3.65	<0.571 U	<b>0.190 JI</b>	<b>0.146 JI</b>	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
1,4-Dichlorobenzene	0.48	75	75	<0.571 U	<b>16.3</b>	<b>17.1</b>	<b>0.364 JF1</b>	<b>0.111 J</b>	<0.571 U	<b>2.98</b>	<0.571 U	<b>2.01</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>2.18</b>
1,4-Dioxane	0.46	NS	6.088	<b>296</b>	<b>108</b>	<b>109</b>	<b>11.4</b>	<b>2.46</b>	<b>65.9</b>	<b>234</b>	<b>4.63</b>	<b>157</b>	<b>0.246 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>2.69</b>
1,4-Naphthoquinone	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<8.00 U
1-Naphthylamine	NS	NS	NS	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 UF1*-F2	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<2.00 U
2,2-Oxybis(1-Chloropropane)	710	NS	0.2604	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.00 U
2,3,4,6-Tetrachlorophenol	240	NS	1095	<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,4,5-Trichlorophenol	1200	NS	3650	<0.571 U	<b>0.145 JI</b>	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<b>0.275 J</b>	<0.571 U	<b>0.268 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,4,6-Trichlorophenol	4.1	NS	6.088	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,4-Dichlorophenol	46	NS	109.5	<0.571 U	<0.571 U	<b>0.150 J</b>	<0.571 U	<0.571 U	<0.571 U	<b>0.223 J</b>	<b>0.162 J</b>	<b>0.276 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,4-Dimethylphenol	360	NS	730	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.646</b>	<b>11.3</b>	<0.571 U	<b>9.97</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,4-Dinitrophenol	39	NS	73	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<8.00 U
2,4-Dinitrotoluene	0.24	NS	73	<0.571 U	<b>0.596</b>	<b>0.611</b>	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,6-Dichlorophenol	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.221 J</b>	<0.571 U	<b>0.179 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2,6-Dinitrotoluene	0.049	NS	36.5	<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2-Acetylaminofluorene	0.016	NS	NS	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 UF1*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<8.00 U
2-Chloronaphthalene	750	NS	486.67	<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<8.00 U
2-Chlorophenol	91	NS	30.417	<0.571 U	<b>1.30</b>	<b>1.23</b>	<0.571 U	<0.571 U	<0.571 U	<b>0.709</b>	<b>0.199 J</b>	<b>0.781</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65	<1.14 U	<1.14 U	<1.14 U	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<1.14 UF1*	<8.00 U
2-Methylnaphthalene	36	NS	121.67	<0.571 U	<b>0.190 JI</b>	<b>0.182 JI</b>	<0.571 U	<b>1.06</b>	<0.571 U	<b>0.841</b>	<b>0.650</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2-Methylphenol	930	NS	1825	<0.571 U	<b>0.294 J</b>	<b>0.272 J</b>	<0.571 U	<0.571 U	<0.571 U	<b>18.3</b>	<b>0.646</b>	<b>9.65</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
2-Naphthylamine	0.039	NS	NS	<0.571 U	<b>1.58 I</b>	<b>1.45 I</b>	<0.571 UF1*-F2	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<8.00 U*
2-Nitroaniline	190	NS	0.4171	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<4.00 U
2-Nitrophenol	NS	NS	0.4161	<0.571 U	<0.571 U	<0.571 U													



**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-16	MW-17	Duplicate MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-27D	MW-31D	MW-32D	MW-33S
				Sample Date:	5/15/2024	5/15/2024	5/15/2024	5/14/2024	5/13/2024	5/13/2024	5/15/2024	5/14/2024	5/15/2024	5/13/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	Area #1	Area #1
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>																			
Naphthalene	0.12	NS	6.204		<0.571 U	0.773	0.774	<0.571 U	19.5	0.697	26.5 J	27.0	16.2	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	5.32
Nitrobenzene	0.14	NS	3.532		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<2.00 U
N-Nitrosodiethylamine	0.00017	NS	0.0004		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<4.00 U
N-Nitrosodimethylamine	0.00011	NS	0.0013		<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U*	<0.571 U	<0.571 U*	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.0019		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U*	<1.14 U*+F1	<1.14 U*	<1.14 U*	<2.00 U
N-Nitrosodi-n-propylamine	0.011	NS	0.0096		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
N-Nitrosodiphenylamine	12	NS	13.668		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<2.00 U
N-Nitrosomorpholine	0.012	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<4.00 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.0030		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
N-Nitrosopiperidine	0.0082	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<4.00 U
N-Nitrosopyrrolidine	0.037	NS	0.0319		<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U*	<0.571 U	<0.571 U*	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<4.00 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		910	4730	4980	1.21	<0.571 U	<0.571 U	5.48	<0.571 U	4.78	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<8.00 U
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 UF1	<1.14 U	<1.14 U	<8.00 U
o-Toluidine	4.7	NS	0.2791		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<8.00 U
Parathion	86	NS	219		<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U	<0.229 U*	<0.229 UF1*	<0.229 U*	<0.229 U*	<4.00 U
p-Chloroaniline	0.37	NS	146		<0.571 U	<0.571 U	<0.571 U	<0.571 UF2	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<4.00 U
Pentachlorobenzene	3.2	NS	29.2		<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
Pentachloronitrobenzene	0.12	NS	0.2576		<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<2.00 U
Pentachlorophenol	0.041	1	1		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<2.00 U
Phenacetin	34	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<8.00 U
Phenanthrene	NS	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	1.78	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
Phenol	5800	NS	21900		<2.86 U	2.73 J	2.61 J	<2.86 UF1	35.4	19.6 J	31.7	43.4	40.3	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	45.9
Phorate	3	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<8.00 U
p-Phenylenediamine	20	NS	6935		<1.14 U*	<1.14 U*	<1.14 U*	<1.14 UF1*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U	<1.14 UF1	<1.14 U	<1.14 U	<10.0 U*
Propylamide	1200	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<4.00 U
Pyrene	120	NS	182.5		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	0.0970 J	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<2.00 U
Pyridine	20	NS	36.5		<2.86 U	<2.86 U	<2.86 U	<2.86 UF1*1	<2.86 U*1	<2.86 U*1	<2.86 U	<2.86 U*1	<2.86 U	<2.86 U*1	<2.86 U	<2.86 UF1	<2.86 U	<2.86 U	1.53 JB*1
Safrole	0.096	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<4.00 U
Sulfotep	7.1	NS	NS		<0.571 U	0.430 J	0.365 J	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 UF1	<0.571 U	<0.571 U	<4.00 U
<b>Delnav Method 8321A</b>																			
Dioxathion	NS	NS	54.8		<0.315 U	<0.315 U	<0.315 U	---	---	---	---	---	---	---	---	---	---	---	---

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**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-33D	Duplicate MW-33D	MW-34SR	MW-34DR	MW-129-S	MW-129-D	MW-65	MW-67	MW-70	MW-71	MW-72	MW-43	MW-47		
				Sample Date:	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3
<i>Volatile Organic Compounds Method 8260B</i>																			
1,1,1,2-Tetrachloroethane	0.57	NS	0.4057	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,1,1-Trichloroethane	8000	200	200	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
1,1,2,2-Tetrachloroethane	0.076	NS	0.0527	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.79	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U		
1,1,2-Trichloroethane	0.28	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,1-Dichloroethane	2.8	NS	798.44	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,1-Dichloroethene	280	7	7	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,2,3-Trichloropropane	0.00075	NS	0.0062	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,2,4-Trimethylbenzene	56	NS	12.326	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>0.544 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
1,2-Dibromoethane	0.0075	0.05	0.05	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
1,2-Dichloroethane	0.17	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,2-Dichloropropane	0.85	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
1,3,5-Trimethylbenzene	60	NS	12.326	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>0.470 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
1,3-Butadiene	0.071	NS	0.0070	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
2,2,4-Trimethylpentane	NS	NS	NS	<b>0.610 J</b>	<b>0.533 J</b>	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
2-Butanone (MEK)	5600	NS	1906.09	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U		
2-Chlor-1,3-Butadiene	0.019	NS	14.314	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
2-Methyl-1-propanol	730	NS	1825	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U		
4-Methyl-2-Pentanone	6300	NS	139.05	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U		
Acetone	18000	NS	608.33	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<200 U	<100 U		
Acetonitrile	130	NS	125.14	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<200 U	<100 U		
Acrolein	0.042	NS	0.0416	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U		
Acrylonitrile	0.052	NS	0.0367	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U		
Allyl chloride	0.73	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Benzene	<b>0.46</b>	5	5	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>8.55</b>	<b>14.2</b>	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Benzyl Chloride	0.089	NS	0.0621	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Bromodichloromethane	0.13	80	0.1679	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Bromoform	3.3	80	8.478	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Bromomethane	7.5	NS	8.517	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Carbon Disulfide	810	NS	1042.86	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Carbon Tetrachloride	<b>0.46</b>	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
CFC-11	5200	NS	1288.24	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
CFC-12	200	NS	347.62	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Chlorobenzene	<b>78</b>	100	100	<1.00 U	<b>0.550 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Chlorodibromomethane	0.87	80	0.1256	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Chloroethane	8300	NS	3.638	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U		
Chloroform	<b>0.22</b>	80	0.1546	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>0.727 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Chloromethane	190	NS	1.434	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U		
cis-1,2-Dichloroethene	<b>25</b>	70	70	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
cis-1,3-Dichloropropene	NS	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Cyclohexane	13000	NS	NS	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<b>18.2</b>	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Dibromomethane	8.3	NS	60.833	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Dichloromethane	<b>11</b>	5	5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Ethyl Methacrylate	630	NS	547.5	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U		
Ethylbenzene	<b>1.5</b>	700	700	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>5.37</b>	<b>0.683 J</b>	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
Hexane	1500	NS	350.18	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 UF1		
Iodomethane	NS	NS	NS	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<40.0 U	<20.0 UF1		
Isopropyl alcohol	410	NS	NS	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U		
Isopropylbenzene	450	NS	679.07	<b>0.879 J</b>	<b>0.839 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<b>6.86</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U		
m,p-Xylenes	NS	NS	NS	<10.0 U	<10.0 U	<10.0 U	<10.												



**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-33D	Duplicate MW-33D	MW-34SR	MW-34DR	MW-129-S	MW-129-D	MW-65	MW-67	MW-70	MW-71	MW-72	MW-43	MW-47		
				Sample Date:	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3		
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>																			
4-Dimethylaminoazobenzene	0.005	NS	NS	<0.571 U**1	<0.571 U**1	<0.571 U**1	<8.00 U	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
4-Nitroaniline	3.8	NS	NS	<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
4-Nitroquinoline-N-Oxide	NS	NS	NS	<1.14 U**+	<1.14 U**+	<1.14 U**+	<4.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
5-Nitro-o-Toluidine	8.2	NS	2.029	<1.14 U	<1.14 U	<1.14 U	<8.00 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS	<0.571 U**+	<0.571 U**+	<0.571 U**+	<8.00 U	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
Acenaphthene	530	NS	365	<b>1.36 *1</b>	<b>1.40 *1</b>	<0.571 U*1	<2.00 U	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.299 J</b>	<0.571 U		
Acenaphthylene	NS	NS	2190	<0.571 U*1	<0.571 U*1	<0.571 U*1	<2.00 U	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Acetophenone <sup>(1)</sup>	1900	NS	NS	<1.14 U	<1.14 U	<1.14 U	<b>0.301 J</b>	<1.14 U	<1.14 U	<1.14 U	<b>0.753 JI</b>	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
Aniline	13	NS	11.750	<0.571 U	<0.571 U	<0.571 U	<4.00 U*1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Anthracene	1800	NS	43.4	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Aramite	1.3	NS	NS	<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Aramite Peak 1	NS	NS	NS	<0.571 U**+	<0.571 U**+	<0.571 U**+	<4.00 U	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
Aramite Peak 2	NS	NS	NS	<0.571 U**+	<0.571 U**+	<0.571 U**+	<4.00 U	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
Benz(a)anthracene	0.03	NS	0.0917	<b>0.0231 JIB**+</b>	<b>0.0101 JB**+</b>	<0.0286 U**+	<2.00 U	<0.0286 U**+	<b>0.0132 JB**+</b>	<b>0.0156 JB**+</b>	<b>0.0111 JB**+</b>	<b>0.0135 JB**+</b>	<0.0286 U**+	<b>0.0138 JIB**+</b>	<b>0.0144 JB**+</b>	<b>0.0182 JIB**+</b>			
Benzo(a)pyrene	0.025	0.2	0.2	<0.0571 U	<0.0571 U	<0.0571 U	<2.00 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U		
Benzo(b)fluoranthene	0.25	NS	0.0917	<0.571 U**+	<0.571 U**+	<0.571 U**+	<2.00 U	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
Benzo(g,h,i)perylene	NS	NS	1095	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Benzo(k)fluoranthene	2.5	NS	0.9174	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Benzyl Alcohol	2000	NS	10950	<b>0.779 J</b>	<b>0.771 JI</b>	<b>0.678 J</b>	<8.00 U	<1.14 U	<1.14 U	<b>1.13 JIB</b>	<1.14 U	<b>1.75 IB</b>	<1.14 U	<b>0.623 JB</b>	<b>0.793 JIB</b>	<b>0.663 JB</b>			
bis(2-Chloroethoxy)methane	59	NS	NS	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
bis(2-Chloroethyl)ether	<b>0.014</b>	NS	0.0092	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.878</b>	<b>11.41</b>			
bis(2-Ethylhexyl)phthalate	5.6	6	6	<1.14 U**+	<1.14 U**+	<1.14 U**+	<2.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
Butyl benzyl phthalate	16	NS	2690	<1.14 U**+	<1.14 U**+	<1.14 U**+	<2.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
Chrysene	25	NS	9.174	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Diallate	0.54	NS	NS	<0.571 U	<0.571 U	<0.571 U	<8.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Diallate Peak 1	NS	NS	NS	<0.571 U*1	<0.571 U*1	<0.571 U*1	<8.00 U	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Diallate Peak 2	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<8.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Dibenz(a,h)anthracene	0.025	NS	0.0092	<0.114 U	<0.114 U	<0.114 U	<2.00 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U		
Dibenzofuran	7.9	NS	24.333	<b>7.23</b>	<b>7.11</b>	<0.571 U	<b>0.440 J</b>	<0.571 U	<b>0.127 J</b>	<b>0.127 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Diethyl phthalate	15000	NS	29200	<1.14 U**+	<1.14 U**+	<1.14 U**+	<2.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
Dimethoate	44	NS	NS	<0.571 U**+	<0.571 U**+	<0.571 U**+	<8.00 U	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
Dimethyl phthalate	NS	NS	365000	<1.14 U**+	<1.14 U**+	<1.14 U**+	<2.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
Dimethylphenethylamine	NS	NS	NS	<5.71 U*-	<5.71 U*-	<5.71 U*-	<4.00 U	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-		
Di-n-butyl phthalate	900	NS	3650	<1.14 U**+	<1.14 U**+	<1.14 U**+	<2.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
Di-n-octyl phthalate	200	NS	20	<1.14 U	<1.14 U	<1.14 U	<2.00 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
Dinoseb	15	7	7	<0.571 U**+	<0.571 U**+	<0.571 U**+	<4.00 U	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+	<0.571 U**+		
Diphenyl ether	<b>0.83</b>	NS	NS	<b>11600</b>	<b>12500</b>	<b>295</b>	<b>914</b>	<0.571 U	<b>114</b>	<b>114</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.117 J</b>	<b>0.987</b>		
Disulfoton	0.5	NS	1.46	<0.571 U	<0.571 U	<0.571 U	<8.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Ethyl Methanesulfonate	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Famphur	NS	NS	NS	<1.14 U**+	<1.14 U**+	<1.14 U**+	<8.00 U	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+	<1.14 U**+		
Fluoranthene	800	NS	1460	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Fluorene	290	NS	243.33	<b>0.463 J</b>	<b>0.463 J</b>	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<b>0.244 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.105 J</b>	<0.571 U		
Hexachloro-1,3-butadiene	0.14	NS	0.8586	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Hexachlorobenzene	0.0098	1	1	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Hexachlorocyclopentadiene	0.41	50	50	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Hexachloroethane	<b>0.33</b>	NS	4.784	<0.571 U	<0.571 U	<0.571 U	<b>0.697 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Hexachloropropene	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Indeno(1,2,3-cd)pyrene	0.25	NS	0.0917	<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<							



**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-33D	Duplicate MW-33D	MW-34SR	MW-34DR	MW-129-S	MW-129-D	MW-65	MW-67	MW-70	MW-71	MW-72	MW-43	MW-47		
				Sample Date:	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3	
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>																			
Naphthalene	0.12	NS	6.204		2.41	2.41	<0.571 U	2.42	<0.571 U	<0.571 U	7.95 *+	1.98 *+	<0.571 U*+	<0.571 U*+	<0.571 U*+	0.314 J*+	<0.571 U*+		
Nitrobenzene	0.14	NS	3.532		<0.571 U*+	<0.571 U*+	<0.571 U*+	<2.00 U	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+		
N-Nitrosodiethylamine	0.00017	NS	0.0004		<1.14 U	<1.14 U	<1.14 U	<4.00 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
N-Nitrosodimethylamine	0.00011	NS	0.0013		<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosodi-n-butylamine	0.0027	NS	0.0019		<1.14 U*+	<1.14 U*+	<1.14 U*+	<2.00 U	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+		
N-Nitrosodi-n-propylamine	0.011	NS	0.0096		<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosodiphenylamine	12	NS	13.668		<0.571 U*1	<0.571 U*1	<0.571 U*1	<2.00 U	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1		
N-Nitrosomorpholine	0.012	NS	NS		<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitroso-N-methylethylamine	0.00071	NS	0.0030		<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
N-Nitrosopiperidine	0.0082	NS	NS		<1.14 U*+	<1.14 U*+	<1.14 U*+	<4.00 U	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+		
N-Nitrosopyrrolidine	0.037	NS	0.0319		<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<8.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<1.14 U	<1.14 U	<1.14 U	<8.00 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
o-Toluidine	4.7	NS	0.2791		<0.571 U	<0.571 U	<0.571 U	<8.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Parathion	86	NS	219		<0.229 U*+	<0.229 U*+	<0.229 U*+	<4.00 U	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+		
p-Chloroaniline	0.37	NS	146		<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pentachlorobenzene	3.2	NS	29.2		<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pentachloronitrobenzene	0.12	NS	0.2576		<0.571 U*+	<0.571 U*+	<0.571 U*+	<2.00 U	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+		
Pentachlorophenol	0.041	1	1		<1.14 U	<1.14 U	<1.14 U	<2.00 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U		
Phenacetin	34	NS	NS		<0.571 U*+	<0.571 U*+	<0.571 U*+	<8.00 U	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+		
Phenanthrene	NS	NS	1095		0.418 J	0.443 J	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+		
Phenol	5800	NS	21900		26.5 J	25.2 J	2.00 J	1.74 J	<2.86 U	1.02 J	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U		
Phorate	3	NS	NS		<0.571 U	<0.571 U	<0.571 U	<8.00 U	<0.571 U	<0.571 U	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+		
p-Phenylenediamine	20	NS	6935		<1.14 U	<1.14 U	<1.14 U	<10.0 U*-	<1.14 U	<1.14 U	<1.14 U*+1	<1.14 U*+1	<1.14 U*+1	<1.14 U*+1	<1.14 U*+1	<1.14 U*+1	<1.14 U*+1		
Propylamide	1200	NS	NS		<0.571 U*+	<0.571 U*+	<0.571 U*+	<4.00 U	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+		
Pyrene	120	NS	182.5		<0.571 U	<0.571 U	<0.571 U	<2.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Pyridine	20	NS	36.5		<2.86 U	<2.86 U	<2.86 U	1.44 JB*1	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U		
Safrole	0.096	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	<4.00 U	<0.571 U*1	<0.571 U*1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
Sulfotep	7.1	NS	NS		<0.571 U	<0.571 U	<0.571 U	<4.00 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U		
<b>Delnav Method 8321A</b>																			
Dioxathion	NS	NS	54.8		---	---	---	---	---	---	---	---	---	---	---	---	---		

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**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-50	Duplicate MW-50	MW-54	MW-73	MW-75	MW-39	MW-79	MW-85	MW-86	MW-87
				Sample Date:	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation
<b>Volatile Organic Compounds Method 8260B</b>														
1,1,1,2-Tetrachloroethane	0.57	NS	0.4057		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.0527		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.79		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.44		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.0062		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.326		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.326		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.0070		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.09		<b>8.64 J</b>	<50.0 U	<50.0 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.314		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.05		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.33		<b>221</b>	<b>194</b>	<100 U	<50000 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acetonitrile	130	NS	125.14		<100 U	<100 U	<100 U	<50000 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acrolein	0.042	NS	0.0416		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.0367		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzene	<b>0.46</b>	5	5		<b>1590</b>	<b>1620</b>	<1.00 U	<b>48900</b>	<1.00 U	<b>6.94</b>	<b>5.48</b>	<1.00 U	<1.00 U	<1.00 U
Benzyl Chloride	0.089	NS	0.0621		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.1679		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Bromoform	3.3	80	8.478		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromomethane	7.5	NS	8.517		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.86		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Tetrachloride	<b>0.46</b>	5	5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
CFC-11	5200	NS	1288.24		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.62		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorobenzene	<b>78</b>	100	100		<b>2.09</b>	<b>2.02</b>	<1.00 U	<500 U	<1.00 U	<b>8.13</b>	<b>8.01</b>	<1.00 U	<1.00 U	<1.00 U
Chlorodibromomethane	0.87	80	0.1256		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Chloroethane	8300	NS	3.638		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Chloroform	<b>0.22</b>	80	0.1546		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chloromethane	190	NS	1.434		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
cis-1,2-Dichloroethene	<b>25</b>	70	70		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<b>0.656 J</b>	<1.00 U	<1.00 U	<1.00 U	<1.00 U
cis-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Cyclohexane	13000	NS	NS		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibromomethane	8.3	NS	60.833		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Dichloromethane	<b>11</b>	5	5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethyl Methacrylate	630	NS	547.5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethylbenzene	<b>1.5</b>	700	700		<b>1.07</b>	<b>1.05</b>	<1.00 U	<500 U	<1.00 U	<b>0.616 J</b>	<b>0.390 J</b>	<1.00 U	<1.00 U	<1.00 U
Hexane	1500	NS	350.18		<5.00 U	<5.00 U	<5.00 UF1	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Iodomethane	NS	NS	NS		<20.0 U	<20.0 U	<20.0 U	<10000 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Isopropyl alcohol	410	NS	NS		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Isopropylbenzene	450	NS	679.07		<b>0.878 J</b>	<b>0.826 J</b>	<1.00 U	<500 U	<1.00 U	<b>5.85</b>	<b>2.85</b>	<1.00 U	<1.00 U	<1.00 U
m,p-Xylenes	NS	NS	NS		<b>1.39 J</b>	<b>1.49 J</b>	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl methacrylate	1400	NS	1419.44		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl N-Butyl Ketone (2-Hexanone)	38	NS	1460		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Methylacrylonitrile	1.9	NS	1.043		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl-tert-butyl ether	14	NS	40		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U

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**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-50	Duplicate MW-50	MW-54	MW-73	MW-75	MW-39	MW-79	MW-85	MW-86	MW-87
				Sample Date:	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation
<b>Volatile Organic Compounds Method 8260B (continued)</b>														
n-Propylbenzene	660	NS	243.33		<10.0 U	<10.0 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.67		<10.0 U	<10.0 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile	NS	NS	NS		<100 U	<100 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)	1200	100	100		<10.0 U	<10.0 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5		<10.0 U	<10.0 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran	3400	NS	NS		<b>1140</b>	<b>1080</b>	<10.0 U	<b>1040 J</b>	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000		<b>92.5</b>	<b>89.4</b>	<1.00 U	<b>960</b>	<1.00 U	<b>1.18</b>	<b>0.499 J</b>	<1.00 U	<1.00 U	<1.00 U
Total Xylenes	190	10000	10000		<100 U	<100 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene	68	100	100		<10.0 U	<10.0 U	<1.00 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS		<50.0 U	<50.0 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<100 U	<100 U	<10.0 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5		<50.0 U	<50.0 U	<5.00 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.12		<200 U	<200 U	<20.0 U	<10000 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2		<20.0 U	<20.0 U	<2.00 U	<1000 U	<2.00 U	<2.00 U	<b>0.597 J</b>	<2.00 U	<2.00 U	<2.00 U
<b>Semivolatile Organic Compounds Method 8270D</b>														
1,1-Biphenyl	0.83	NS	304.17		<b>3570</b>	<b>3330</b>	<0.571 U	<b>2010</b>	<0.571 U	<0.571 U	<b>0.495 J</b>	<0.571 U	<0.571 U	<0.571 U
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2,4-Trichlorobenzene	1.2	70	70		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2-Dichlorobenzene	300	600	600		<b>0.217 J</b>	<b>0.206 J</b>	<0.571 U	<b>0.170 J</b>	<0.571 U	<b>0.214 J</b>	<b>0.335 J</b>	<0.571 U	<0.571 U	<0.571 U
1,3,5-Trinitrobenzene	590	NS	1095		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
1,3-Dichlorobenzene	NS	NS	5.475		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,3-Dinitrobenzene	2	NS	3.65		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
1,4-Dichlorobenzene	0.48	75	75		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.287 J</b>	<b>0.328 J</b>	<0.571 U	<0.571 U	<0.571 U
1,4-Dioxane	0.46	NS	6.088		<b>7.71</b>	<b>7.27</b>	<0.571 U	<b>7.21</b>	<0.571 U	<b>2.39</b>	<b>7.07</b>	<b>0.110 JI</b>	<b>0.196 JI</b>	<0.571 U
1,4-Naphthoquinone	NS	NS	NS		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
1-Naphthylamine	NS	NS	NS		<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1
2,2-Oxybis(1-Chloropropane)	710	NS	0.2604		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
2,3,4,6-Tetrachlorophenol	240	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4,5-Trichlorophenol	1200	NS	3650		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2,4,6-Trichlorophenol	4.1	NS	6.088		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2,4-Dichlorophenol	46	NS	109.5		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2,4-Dimethylphenol	360	NS	730		<b>0.312 J</b>	<b>0.352 J</b>	<0.571 U	<b>1.32</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4-Dinitrophenol	39	NS	73		<2.86 U	<2.86 U	<b>0.217 J</b>	<2.86 U	<b>0.221 JI</b>	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
2,4-Dinitrotoluene	0.24	NS	73		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2,6-Dichlorophenol	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,6-Dinitrotoluene	0.049	NS	36.5		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2-Acetylaminofluorene	0.016	NS	NS		<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*	<2.86 U*
2-Chloronaphthalene	750	NS	486.67		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2-Chlorophenol	91	NS	30.417		<0.571 U	<0.571 U	<0.571 U	<b>0.0896 J</b>	<0.571 U	<b>0.0789 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65		<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*
2-Methylnaphthalene	36	NS	121.67		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Methylphenol	930	NS	1825		<b>0.748</b>	<b>0.777</b>	<0.571 U	<b>13.8</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Naphthylamine	0.039	NS	NS		<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1
2-Nitroaniline	190	NS	0.4171		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2-Nitrophenol	NS	NS	0.4161		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2-Picoline	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3,3-Dichlorobenzidine	0.13	NS	0.1488		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3,3-Dimethylbenzidine	0.0065	NS	0.0073		<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1	<0.571 U**1
3-Methylchloranthrene	0.0011	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3-Methylphenol, 4-Methylphenol	NS	NS	NS		<b>5.30</b>	<b>5.41</b>	<0.571 U	<b>32.2</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3-Nitroaniline	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Aminobiphenyl	0.003	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Bromophenyl phenyl ether	NS	NS	NS		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
4-Chloro-3-Methylphenol	1400	NS	73000		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
4-Chlorophenyl phenyl ether	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U

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**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-50	Duplicate MW-50	MW-54	MW-73	MW-75	MW-39	MW-79	MW-85	MW-86	MW-87
				Sample Date:	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>														
4-Dimethylaminoazobenzene	0.005	NS	NS		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
4-Nitroaniline	3.8	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Nitroquinoline-N-Oxide	NS	NS	NS		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
5-Nitro-o-Toluidine	8.2	NS	2.029		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Acenaphthene	530	NS	365		<0.571 U	<0.571 U	<0.571 U	<b>0.127 J</b>	<0.571 U	<b>0.111 J</b>	<b>0.505 J</b>	<0.571 U	<0.571 U	<0.571 U
Acenaphthylene	NS	NS	2190		<b>0.167 J</b>	<b>0.175 J</b>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Acetophenone <sup>(1)</sup>	1900	NS	NS		<b>1.11 J</b>	<b>1.16</b>	<1.14 U	<b>7.46</b>	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Aniline	13	NS	11.750		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<b>0.0596 JI</b>	<0.571 U	<0.571 U	<0.571 U
Anthracene	1800	NS	43.4		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite	1.3	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite Peak 1	NS	NS	NS		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Aramite Peak 2	NS	NS	NS		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Benz(a)anthracene	0.03	NS	0.0917		<0.0286 U <sup>+</sup>	<b>0.0230 JB<sup>+</sup></b>	<0.0286 U <sup>+</sup>	<0.0286 U <sup>+</sup>	<0.0286 U <sup>+</sup>	<0.0286 U <sup>+</sup>	<b>0.0255 JIB<sup>+</sup></b>	<0.0286 U <sup>+</sup>	<b>0.0180 JB<sup>+</sup></b>	<b>0.0122 JB<sup>+</sup></b>
Benzo(a)pyrene	0.025	0.2	0.2		<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<b>0.0107 J</b>	<0.0571 U	<0.0571 U	<0.0571 U
Benzo(b)fluoranthene	0.25	NS	0.0917		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Benzo(g,h,i)perylene	NS	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzo(k)fluoranthene	2.5	NS	0.9174		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzyl Alcohol	2000	NS	10950		<b>2.25 IB</b>	<b>2.62 B</b>	<1.14 U	<b>16.4 IB</b>	<b>0.661 JB</b>	<b>1.15 B</b>	<b>1.13 JB</b>	<1.14 U	<b>0.643 JB</b>	<b>0.938 JB</b>
bis(2-Chloroethoxy)methane	59	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
bis(2-Chloroethyl)ether	<b>0.014</b>	NS	0.0092		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
bis(2-Ethylhexyl)phthalate	5.6	6	6		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
Butyl benzyl phthalate	16	NS	2690		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
Chrysene	25	NS	9.174		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate	0.54	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate Peak 1	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate Peak 2	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Dibenz(a,h)anthracene	0.025	NS	0.0092		<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U
Dibenzofuran	7.9	NS	24.333		<b>5.67</b>	<b>5.69</b>	<0.571 U	<b>3.40</b>	<0.571 U	<0.571 U	<b>0.109 J</b>	<0.571 U	<0.571 U	<0.571 U
Diethyl phthalate	15000	NS	29200		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
Dimethoate	44	NS	NS		<0.571 U	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Dimethyl phthalate	NS	NS	365000		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
Dimethylphenethylamine	NS	NS	NS		<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>	<5.71 U <sup>-</sup>
Di-n-butyl phthalate	900	NS	3650		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
Di-n-octyl phthalate	200	NS	20		<b>15.5</b>	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Dinoseb	15	7	7		<0.571 U	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Diphenyl ether	<b>0.83</b>	NS	NS		<b>11600</b>	<b>11100</b>	<0.571 U	<b>6640</b>	<0.571 U	<b>64.1</b>	<b>439</b>	<0.571 U	<b>3.25</b>	<b>0.130 J</b>
Disulfoton	0.5	NS	1.46		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Ethyl Methanesulfonate	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Famphur	NS	NS	NS		<1.14 U	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
Fluoranthene	800	NS	1460		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Fluorene	290	NS	243.33		<b>0.228 J</b>	<b>0.231 J</b>	<0.571 U	<b>0.185 J</b>	<0.571 U	<0.571 U	<b>0.152 J</b>	<0.571 U	<0.571 U	<0.571 U
Hexachloro-1,3-butadiene	0.14	NS	0.8586		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachlorobenzene	0.0098	1	1		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachlorocyclopentadiene	0.41	50	50		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachloroethane	<b>0.33</b>	NS	4.784		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachloropropene	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Indeno(1,2,3-cd)pyrene	0.25	NS	0.0917		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isophorone	78	NS	70.497		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole Peak 1	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole Peak 2	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Methapyrilene	NS	NS	NS		<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U
Methyl methanesulfonate	0.79	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Methyl parathion	4.5	NS	9.125		<0.571 U	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>

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**Table 1**  
**Groundwater Analytical Results - Alluvial Aquifer**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-50	Duplicate MW-50	MW-54	MW-73	MW-75	MW-39	MW-79	MW-85	MW-86	MW-87
				Sample Date:	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
				Program:	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>														
Naphthalene	0.12	NS	6.204		<b>22.8</b> <sup>+</sup> *	<b>22.2</b> <sup>+</sup> *	<0.571 U <sup>+</sup>	<b>17.8</b> <sup>+</sup> *	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<b>0.177</b> <sup>J</sup> +	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Nitrobenzene	0.14	NS	3.532		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
N-Nitrosodiethylamine	0.00017	NS	0.0004		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
N-Nitrosodimethylamine	0.00011	NS	0.0013		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.0019		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
N-Nitrosodi-n-propylamine	0.011	NS	0.0096		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosodiphenylamine	12	NS	13.668		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosomorpholine	0.012	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.0030		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosopiperidine	0.0082	NS	NS		<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>	<1.14 U <sup>+</sup>
N-Nitrosopyrrolidine	0.037	NS	0.0319		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
o-Toluidine	4.7	NS	0.2791		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Parathion	86	NS	219		<0.229 U	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>	<0.229 U <sup>+</sup>
p-Chloroaniline	0.37	NS	146		<0.571 U	<b>0.0413</b> <sup>J</sup>	<0.571 U	<b>0.0488</b> <sup>J</sup>	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachlorobenzene	3.2	NS	29.2		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachloronitrobenzene	0.12	NS	0.2576		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Pentachlorophenol	0.041	1	1		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Phenacetin	34	NS	NS		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Phenanthrene	NS	NS	1095		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Phenol	5800	NS	21900		<b>8.14</b>	<b>6.58</b>	<2.86 U	<b>212</b>	<2.86 U	<b>3.69</b>	<b>10.4</b>	<2.86 U	<2.86 U	<2.86 U
Phorate	3	NS	NS		<0.571 U	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
p-Phenylenediamine	20	NS	6935		<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1	<1.14 U <sup>+</sup> *1
Propylamide	1200	NS	NS		<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>	<0.571 U <sup>+</sup>
Pyrene	120	NS	182.5		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pyridine	20	NS	36.5		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
Safrole	0.096	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Sulfotep	7.1	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
<b>Delnav Method 8321A</b>														
Dioxathion	NS	NS	54.8		---	---	---	---	---	---	---	---	---	---

**Notes:**

<sup>(1)</sup> MDEQ has indicated that the published TRG for acetophenone is incorrect and that the U.S. Environmental Protection Agency Regional Screening Level should be used; therefore, the MDEQ TRG is shown as "NS."

\* LCS or LCS duplicate is outside acceptance limits.

\*- LCS and/or LCS duplicate is outside acceptance limits, low biased.

\*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.

\*1 LCS/LCS duplicate relative percent difference exceeds control limits.

Results are reported in micrograms per liter.

Detections are in **bold** print.

Concentrations above MDEQ Groundwater TRG are shaded gray.

Concentrations above USEPA Tapwater RSL are **green and italic font**.

Concentrations above USEPA MCL are **underlined**.

< / U - Indicates analyte was analyzed for but not detected.

B - Compound was found in the blank and sample.

F1 - Matrix spike and/or matrix spike duplicate recovery outside of acceptance limits.

F2 - Matrix spike/Matrix spike duplicate relative percent difference exceeds control limits.

H - Sample was prepped or analyzed beyond the specified holding time.

J - Result is less than the reporting limit but greater than or equal to the method detection limit. Concentration is an approximate value.

**Abbreviations:**

LCS - Laboratory control sample.

MCL - Maximum Contaminant Level.

MDEQ - Mississippi Department of Environmental Quality.

NS - No Standard.

RSL - Regional Screening Level.

TRG - Target Remediation Goal.

USEPA - U.S. Environmental Protection Agency.

**Table 2**  
**Groundwater Analytical Results - Hattiesburg Formation Well Network**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Volatiles Organic Compounds Method 8260B</b>										
1,1,1,2-Tetrachloroethane	0.57	NS	0.4057		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.0527		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.79		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.44		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.0062		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.326		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.326		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.0070		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.09		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.314		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	5900	NS	1825		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.05		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.33		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acetonitrile	130	NS	125.14		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acrolein	0.042	NS	0.0416		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.0367		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzene	0.46	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Benzyl Chloride	0.089	NS	0.0621		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.1679		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Bromoform	3.3	80	8.478		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U

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**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Volatiles Organic Compounds Method 8260B (continued)</b>										
Bromomethane	7.5	NS	8.517		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.86		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Tetrachloride	0.46	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
CFC-11	5200	NS	1288.24		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.62		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorobenzene	78	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorodibromomethane	0.87	80	0.1256		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Chloroethane	8300	NS	3.638		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Chloroform	0.22	80	0.1546		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chloromethane	190	NS	1.434		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
cis-1,2-Dichloroethene	25	70	70		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
cis-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Cyclohexane	13000	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibromomethane	8.3	NS	60.833		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Dichloromethane	11	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethyl Methacrylate	630	NS	547.5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethylbenzene	1.5	700	700		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Hexane	1500	NS	350.18		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Iodomethane	NS	NS	NS		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Isopropyl alcohol	410	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Isopropylbenzene	450	NS	679.07		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
m,p-Xylenes	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl methacrylate	1400	NS	1419.44		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl N-Butyl Ketone (2-Hexanone)	38	NS	1460		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Methylacrylonitrile	1.9	NS	1.043		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl-tert-butylether	14	NS	40		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
n-Propylbenzene	660	NS	243.33		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.67		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Semivolatile Organic Compounds Method 8270D</b>										
Styrene (Monomer)	1200	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran	3400	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes	190	10000	10000		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene	68	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.12		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,1-Biphenyl	0.83	NS	304.17		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2,4-Trichlorobenzene	1.2	70	70		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2-Dichlorobenzene	300	600	600		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,3,5-Trinitrobenzene	590	NS	1095		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
1,3-Dichlorobenzene	NS	NS	5.475		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,3-Dinitrobenzene	2	NS	3.65		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
1,4-Dichlorobenzene	0.48	75	75		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,4-Dioxane	0.46	NS	6.088		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,4-Naphthoquinone	NS	NS	NS		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
1-Naphthylamine	NS	NS	NS		<0.571 U* <sup>-1</sup>	<0.571 U* <sup>-1</sup>	<0.571 U* <sup>-1</sup>	<0.571 U*	<0.571 U*	<0.571 U*
2,2-Oxybis(1-Chloropropane)	710	NS	0.2604		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<b>1.60 J</b>	<2.86 U
2,3,4,6-Tetrachlorophenol	240	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4,5-Trichlorophenol	1200	NS	3650		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
2,4,6-Trichlorophenol	4.1	NS	6.088		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U
2,4-Dichlorophenol	46	NS	109.5		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U	<0.571 U	<0.571 U
2,4-Dimethylphenol	360	NS	730		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4-Dinitrophenol	39	NS	73		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
2,4-Dinitrotoluene	0.24	NS	73	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
2,6-Dichlorophenol	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,6-Dinitrotoluene	0.049	NS	36.5	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
2-Acetylaminofluorene	0.016	NS	NS	<2.86 U*+	<2.86 U*+	<2.86 U*+	<2.86 U*+	<2.86 U*+	<2.86 U*+	<2.86 U*+
2-Chloronaphthalene	750	NS	486.67	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Chlorophenol	91	NS	30.417	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U	<1.14 U	<1.14 U	<1.14 U
2-Methylnaphthalene	36	NS	121.67	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Methylphenol	930	NS	1825	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Naphthylamine	0.039	NS	NS	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*
2-Nitroaniline	190	NS	0.4171	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
2-Nitrophenol	NS	NS	0.4161	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
2-Picoline	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3,3-Dichlorobenzidine	0.13	NS	0.1488	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3,3-Dimethylbenzidine	0.0065	NS	0.0073	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*
3-Methylchloranthrene	0.0011	NS	NS	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*	<0.571 U*-*
3-Methylphenol, 4-Methylphenol	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3-Nitroaniline	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Aminobiphenyl	0.003	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Bromophenyl phenyl ether	NS	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
4-Chloro-3-Methylphenol	1400	NS	73000	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Chlorophenyl phenyl ether	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Dimethylaminoazobenzene	0.005	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
4-Nitroaniline	3.8	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Nitroquinoline-N-Oxide	NS	NS	NS	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
5-Nitro-o-Toluidine	8.2	NS	2.029	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Acenaphthene	530	NS	365	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Acenaphthylene	NS	NS	2190	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U

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**Table 2**  
**Groundwater Analytical Results - Hattiesburg Formation Well Network**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
Acetophenone	1900	NS	NS	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Aniline	13	NS	11.750	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Anthracene	1800	NS	43.4	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite	1.3	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite Peak 1	NS	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Aramite Peak 2	NS	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Benz(a)anthracene	0.03	NS	0.0917	<b>0.0117 JB*+</b>	<b>0.0183 JB*+</b>	<b>0.0176 JIB*+</b>	<b>0.0114 JI*+</b>	<0.0286 U*+	<b>0.0165 JI*+</b>	
Benzo(a)pyrene	0.025	0.2	0.2	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U
Benzo(b)fluoranthene	0.25	NS	0.0917	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Benzo(g,h,i)perylene	NS	NS	1095	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzo(k)fluoranthene	2.5	NS	0.9174	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzyl Alcohol	2000	NS	10950	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
bis(2-Chloroethoxy)methane	59	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
bis(2-Chloroethyl)ether	0.014	NS	0.0092	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
bis(2-Ethylhexyl)phthalate	5.6	6	6	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
Butyl benzyl phthalate	16	NS	2690	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
Chrysene	25	NS	9.174	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate	0.54	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate Peak 1	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate Peak 2	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Dibenz(a,h)anthracene	0.025	NS	0.0092	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U
Dibenzofuran	7.9	NS	24.333	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diethyl phthalate	15000	NS	29200	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
Dimethoate	44	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Dimethyl phthalate	NS	NS	365000	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
Dimethylphenethylamine	NS	NS	NS	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-	<5.71 U*-
Di-n-butyl phthalate	900	NS	3650	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
Di-n-octyl phthalate	200	NS	20	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Dinoseb	15	7	7	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+

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**Table 2**  
**Groundwater Analytical Results - Hattiesburg Formation Well Network**  
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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
Diphenyl ether	0.83	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Disulfoton	0.5	NS	1.46	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Ethyl Methanesulfonate	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Famphur	NS	NS	NS	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
Fluoranthene	800	NS	1460	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Fluorene	290	NS	243.33	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachloro-1,3-butadiene	0.14	NS	0.8586	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachlorobenzene	0.0098	1	1	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachlorocyclopentadiene	0.41	50	50	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachloroethane	0.33	NS	4.784	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachloropropene	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Indeno(1,2,3-cd)pyrene	0.25	NS	0.0917	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isophorone	78	NS	70.497	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole Peak 1	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole Peak 2	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Methapyrilene	NS	NS	NS	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U
Methyl methanesulfonate	0.79	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Methyl parathion	4.5	NS	9.125	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Naphthalene	0.12	NS	6.204	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Nitrobenzene	0.14	NS	3.532	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
N-Nitrosodiethylamine	0.00017	NS	0.0004	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
N-Nitrosodimethylamine	0.00011	NS	0.0013	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.0019	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U*+
N-Nitrosodi-n-propylamine	0.011	NS	0.0096	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosodiphenylamine	12	NS	13.668	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosomorpholine	0.012	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.0030	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosopiperidine	0.0082	NS	NS	<1.14 U*+	<1.14 U*+	<1.14 U*+	<1.14 U	<1.14 U	<1.14 U	<1.14 U

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**Table 2**  
**Groundwater Analytical Results - Hattiesburg Formation Well Network**  
**Monthly Progress Report (June 2024)**  
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**Hattiesburg, Mississippi**



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	HMW-1	Duplicate HMW-2	HMW-2	HMW-3	HMW-4	HMW-5
				Aquifer:	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation	Hattiesburg Formation
				Screen Interval (ft bgs):	80 - 90	104 - 114	104 - 114	82 - 92	89 - 99	70 - 80
				Sample Date:	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
N-Nitrosopyrrolidine	0.037	NS	0.0319	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
o-Toluidine	4.7	NS	0.2791	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Parathion	86	NS	219	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+	<0.229 U*+
p-Chloroaniline	0.37	NS	146	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachlorobenzene	3.2	NS	29.2	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachloronitrobenzene	0.12	NS	0.2576	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Pentachlorophenol	0.041	1	1	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Phenacetin	34	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Phenanthrene	NS	NS	1095	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Phenol	5800	NS	21900	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
Phorate	3	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
p-Phenylenediamine	20	NS	6935	<1.14 U*-*1	<1.14 U*-*1	<1.14 U*-*1	<1.14 U*-*	<1.14 U*-*	<1.14 U*-*	<1.14 U*-*
Propylamide	1200	NS	NS	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+	<0.571 U*+
Pyrene	120	NS	182.5	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pyridine	20	NS	36.5	<2.86 U	<2.86 U	<2.86 U	<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U*1
Safrole	0.096	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Sulfotep	7.1	NS	NS	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U

**Notes:**

- <sup>(1)</sup> MDEQ indicated that the published TRG for acetophenone is incorrect and that the USEPA RSL should be used; therefore, the MDEQ TRG is shown as "NAV."
  - \*- LCS and/or LCS duplicate is outside acceptance limits, low biased.
  - \*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.
  - \*1 LCS/LCS duplicate relative percent difference exceeds control limits.
- Results are reported in micrograms per liter.  
Detections are in **bold** print.  
Results do not exceed screening criteria.  
< / U - Indicates analysis for the analyte was conducted, but the analyte was not detected.  
B - Compound was found in the blank and sample.  
J - result is less than the reporting limit but greater than or equal to the method detection limit.

**Abbreviations:**

- AI - Agency Interest.
- LCS - Laboratory control sample.
- MCL - Maximum Contaminant Level.
- MDEQ - Mississippi Department of Environmental Quality.
- NAV - Not available.
- NS - No Standard.
- RSL - Regional Screening Level.
- TRG - Target Remediation Goal.
- USEPA - U.S. Environmental Protection Agency.

**Table 3**  
**Surface Water Analytical Results - Greens Creek**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
<b>Volatile Organic Compounds Method 8260B</b>										
1,1,1,2-Tetrachloroethane	0.57	NS	0.4057		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.0527		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.79		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.44		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.0062		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.326		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.326		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.0070		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.09		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.314		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.05		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.33		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acetonitrile	130	NS	125.14		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acrolein	0.042	NS	0.0416		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.0367		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzene	0.46	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Benzyl Chloride	0.089	NS	0.0621		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.1679		<1.00 U	<1.00 U	0.855 J	0.928 J	0.864 J	<1.00 U
Bromoform	3.3	80	8.478		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromomethane	7.5	NS	8.517		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.86		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Tetrachloride	0.46	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
CFC-11	5200	NS	1288.24		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.62		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorobenzene	78	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorodibromomethane	0.87	80	0.1256		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U

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**Table 3**  
**Surface Water Analytical Results - Greens Creek**  
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**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
<b>Volatile Organic Compounds Method 8260B (continued)</b>										
Chloroethane	8300	NS	3.638		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Chloroform	0.22	80	0.1546		1.75	4.33	5.79	7.02	6.95	2.69
Chloromethane	190	NS	1.434		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
cis-1,2-Dichloroethene	25	70	70		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
cis-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Cyclohexane	13000	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibromomethane	8.3	NS	60.833		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Dichloromethane	11	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethyl Methacrylate	630	NS	547.5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethylbenzene	1.5	700	700		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Hexane	1500	NS	350.18		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Iodomethane	NS	NS	NS		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Isopropyl alcohol	410	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Isopropylbenzene	450	NS	679.07		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
m,p-Xylenes	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl methacrylate	1400	NS	1419.44		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl N-Butyl Ketone (2-Hexanone)	38	NS	1460		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Methylacrylonitrile	1.9	NS	1.043		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl-tert-butyl ether	14	NS	40		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
n-Propylbenzene	660	NS	243.33		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.67		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)	1200	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran	3400	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes	190	10000	10000		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene	68	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.12		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
<b>Semivolatile Organic Compounds Method 8270D</b>										
1,1-Biphenyl	0.83	NS	304.17		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2,4-Trichlorobenzene	1.2	70	70		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,2-Dichlorobenzene	300	600	600		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,3,5-Trinitrobenzene	590	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,3-Dichlorobenzene	NS	NS	5.475		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
1,3-Dinitrobenzene	2	NS	3.65		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,4-Dichlorobenzene	0.48	75	75		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1,4-Dioxane	0.46	NS	6.088		0.113 JI	0.769	0.422 J	0.310 JI	0.780	4.05
1,4-Naphthoquinone	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
1-Naphthylamine	NS	NS	NS		<0.571 U*-	<0.571 U*-	<0.571 U*-	<0.571 U*-	<0.571 U*-	<0.571 U*-
2,2-Oxybis(1-Chloropropane)	710	NS	0.2604		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
2,3,4,6-Tetrachlorophenol	240	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4,5-Trichlorophenol	1200	NS	3650		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4,6-Trichlorophenol	4.1	NS	6.088		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4-Dichlorophenol	46	NS	109.5		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4-Dimethylphenol	360	NS	730		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,4-Dinitrophenol	39	NS	73		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
2,4-Dinitrotoluene	0.24	NS	73		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,6-Dichlorophenol	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2,6-Dinitrotoluene	0.049	NS	36.5		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Acetylaminofluorene	0.016	NS	NS		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
2-Chloronaphthalene	750	NS	486.67		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Chlorophenol	91	NS	30.417		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
2-Methylnaphthalene	36	NS	121.67		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Methylphenol	930	NS	1825		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Naphthylamine	0.039	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Nitroaniline	190	NS	0.4171		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Nitrophenol	NS	NS	0.4161		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
2-Picoline	NS	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
3,3-Dichlorobenzidine	0.13	NS	0.1488		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3,3-Dimethylbenzidine	0.0065	NS	0.0073		<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1
3-Methylchloranthrene	0.0011	NS	NS		<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1	<0.571 U*-*1
3-Methylphenol, 4-Methylphenol	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
3-Nitroaniline	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
4-Aminobiphenyl	0.003	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Bromophenyl phenyl ether	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Chloro-3-Methylphenol	1400	NS	73000		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Chlorophenyl phenyl ether	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Dimethylaminoazobenzene	0.005	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
4-Nitroaniline	3.8	NS	NS		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
4-Nitroquinoline-N-Oxide	NS	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
5-Nitro-o-Toluidine	8.2	NS	2.029		<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*	<1.14 U*
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Acenaphthene	530	NS	365		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Acenaphthylene	NS	NS	2190		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Acetophenone <sup>(1)</sup>	1900	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Aniline	13	NS	11.750		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Anthracene	1800	NS	43.4		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite	1.3	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite Peak 1	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Aramite Peak 2	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benz(a)anthracene	0.03	NS	0.0917		<0.0286 U	<0.0286 U	<0.0286 U	<0.0286 U	<0.0286 U	<0.0286 U
Benzo(a)pyrene	0.025	0.2	0.2		<0.0571 U	<0.0571 U	<0.0571 U	<0.0571 U	0.0125 J	0.0148 J
Benzo(b)fluoranthene	0.25	NS	0.0917		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzo(g,h,i)perylene	NS	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzo(k)fluoranthene	2.5	NS	0.9174		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Benzyl Alcohol	2000	NS	10950		0.984 JB	1.05 JB	1.06 JB	0.914 JB	0.991 JB	1.00 JB
bis(2-Chloroethoxy)methane	59	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
bis(2-Chloroethyl)ether	0.014	NS	0.0092		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
bis(2-Ethylhexyl)phthalate	5.6	6	6		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Butyl benzyl phthalate	16	NS	2690		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Chrysene	25	NS	9.174		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate	0.54	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate Peak 1	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diallate Peak 2	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Dibenz(a,h)anthracene	0.025	NS	0.0092		<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U	<0.114 U
Dibenzofuran	7.9	NS	24.333		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Diethyl phthalate	15000	NS	29200		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Dimethoate	44	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
Dimethyl phthalate	NS	NS	365000		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
Dimethylphenethylamine	NS	NS	NS		<5.71 U*	<5.71 U*	<5.71 U*	<5.71 U*	<5.71 U*	<5.71 U*
Di-n-butyl phthalate	900	NS	3650		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Di-n-octyl phthalate	200	NS	20		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Dinoseb	15	7	7		<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1
Diphenyl ether	0.83	NS	NS		<0.571 U	<0.571 U	<0.571 U	0.367 J	0.230 J	0.169 J
Disulfoton	0.5	NS	1.46		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
Ethyl Methanesulfonate	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Famphur	NS	NS	NS		<1.14 U*+*1	<1.14 U*+*1	<1.14 U*+*1	<1.14 U*+*1	<1.14 U*+*1	<1.14 U*+*1
Fluoranthene	800	NS	1460		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Fluorene	290	NS	243.33		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachloro-1,3-butadiene	0.14	NS	0.8586		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
Hexachlorobenzene	0.0098	1	1		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Hexachlorocyclopentadiene	0.41	50	50		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
Hexachloroethane	0.33	NS	4.784		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
Hexachloropropene	NS	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
Indeno(1,2,3-cd)pyrene	0.25	NS	0.0917		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isophorone	78	NS	70.497		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole Peak 1	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Isosafrole Peak 2	NS	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Methapyrilene	NS	NS	NS		<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U	<2.29 U
Methyl methanesulfonate	0.79	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Methyl parathion	4.5	NS	9.125		<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1	<0.571 U*+*1
Naphthalene	0.12	NS	6.204		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Nitrobenzene	0.14	NS	3.532		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosodiethylamine	0.00017	NS	0.0004		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
N-Nitrosodimethylamine	0.00011	NS	0.0013		<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*	<0.571 U*
N-Nitrosodi-n-butylamine	0.0027	NS	0.0019		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
N-Nitrosodi-n-propylamine	0.011	NS	0.0096		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosodiphenylamine	12	NS	13.668		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosomorpholine	0.012	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.0030		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
N-Nitrosopiperidine	0.0082	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
N-Nitrosopyrrolidine	0.037	NS	0.0319		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	0.325 J	0.288 J	0.653
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U

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**Table 3**  
**Surface Water Analytical Results - Greens Creek**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>										
o-Toluidine	4.7	NS	0.2791		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Parathion	86	NS	219		<0.229 U*1	<0.229 U*1	<0.229 U*1	<0.229 U*1	<0.229 U*1	<0.229 U*1
p-Chloroaniline	0.37	NS	146		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachlorobenzene	3.2	NS	29.2		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachloronitrobenzene	0.12	NS	0.2576		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pentachlorophenol	0.041	1	1		<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U	<1.14 U
Phenacetin	34	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Phenanthrene	NS	NS	1095		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Phenol	5800	NS	21900		<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U	<2.86 U
Phorate	3	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1
p-Phenylenediamine	20	NS	6935		<1.14 U*-	<1.14 U*-	<1.14 U*-	<1.14 U*-	<1.14 U*-	<1.14 U*-
Propyzamide	1200	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pyrene	120	NS	182.5		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Pyridine	20	NS	36.5		<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U*1	<2.86 U*1
Safrole	0.096	NS	NS		<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U	<0.571 U
Sulfotep	7.1	NS	NS		<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1	<0.571 U*1

**Notes:**

(1) MDEQ has indicated that the published TRG for acetophenone is incorrect and that the USEPA RSL should be used; therefore, the MDEQ TRG is shown as "NS."

\* LCS or LCS duplicate is outside acceptance limits.

\*- LCS and/or LCS duplicate is outside acceptance limits, low biased.

\*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.

\*1 LCS/LCS duplicate relative percent difference exceeds control limits.

Results are reported in micrograms per liter.

Detections are in **bold** print.

Concentrations above MDEQ Groundwater TRG are shaded gray.

Concentrations above USEPA Tapwater RSL are *green and italic font*.

Concentrations above USEPA MCL are underlined.

< / U - Indicates analyte was analyzed for but not detected.

J - Result is less than the reporting limit but greater than or equal to the method detection limit. Concentration is an approximate value.

**Abbreviations:**

LCS - Laboratory control sample.

MCL - Maximum Contaminant Level.

MDEQ - Mississippi Department of Environmental Quality.

NS - No Standard.

RSL - Regional Screening Level.

TRG - Target Remediation Goals.

USEPA - U.S. Environmental Protection Agency.



**Table 4**  
**Quality Assurance/Quality Control Analytical Results**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	Location:	FB-01	FB-02	FB-03	RB-01	RB-02	RB-03	TB-01	TB-02	TB-03	TB-04	TB-05	TB-07	TB-08	TB-09
	Sample Date:	5/15/2024	5/9/2024	5/8/2024	5/14/2024	5/9/2024	5/8/2024	5/7/2024	5/7/2024	5/7/2024	5/8/2024	5/9/2024	5/13/2024	5/14/2024	5/15/2024
<b>Volatile Organic Compounds Method 8260B (continued)</b>															
Ethylbenzene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Hexane		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Iodomethane		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Isopropyl alcohol		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	79.2	<10.0 U
Isopropylbenzene		<1.00 U	<1.00 U	<1.00 U	6.43	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
m,p-Xylenes		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl methacrylate		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl N-Butyl Ketone (2-Hexanone)		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Methylacrylonitrile		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl-tert-butyl ether		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
n-Propylbenzene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<b>Semivolatile Organic Compounds Method 8270D</b>															
1,1-Biphenyl		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,3,5-Trinitrobenzene		--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene		--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,4-Dioxane		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
1,4-Naphthoquinone		--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
1-Naphthylamine		--	--	--	<0.571 U*-	<0.571 U*-*1	<0.571 U*-	--	--	--	--	--	--	--	--
2,2-Oxybis(1-Chloropropane)		--	--	--	<2.86 U	<2.86 U	<2.86 U	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol		--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
2,4-Dichlorophenol		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
2,4-Dimethylphenol		--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
2,4-Dinitrophenol		--	--	--	<2.86 U	0.212 JI	<2.86 U	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene		--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
2,6-Dichlorophenol		--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--

Notes on Page 5.

**Table 4**  
**Quality Assurance/Quality Control Analytical Results**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	Location:	FB-01	FB-02	FB-03	RB-01	RB-02	RB-03	TB-01	TB-02	TB-03	TB-04	TB-05	TB-07	TB-08	TB-09
	Sample Date:	5/15/2024	5/9/2024	5/8/2024	5/14/2024	5/9/2024	5/8/2024	5/7/2024	5/7/2024	5/7/2024	5/8/2024	5/9/2024	5/13/2024	5/14/2024	5/15/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>															
2,6-Dinitrotoluene	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
2-Acetylaminofluorene	--	--	--	--	<2.86 U*+	<2.86 U*+	<2.86 U*+	--	--	--	--	--	--	--	--
2-Chloronaphthalene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
2-Chlorophenol	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
2-Methyl-4,6-dinitrophenol	--	--	--	--	<1.14 U*1	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
2-Methylphenol	--	--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
2-Naphthylamine	--	--	--	--	<0.571 U*-	<0.571 U*+1	<0.571 U*-	--	--	--	--	--	--	--	--
2-Nitroaniline	--	--	--	--	<0.571 U	<0.571 U*+1	<0.571 U*+	--	--	--	--	--	--	--	--
2-Nitrophenol	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
2-Picoline	--	--	--	--	<0.571 U*1	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
3,3-Dichlorobenzidine	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
3,3-Dimethylbenzidine	--	--	--	--	<0.571 U*-1	<0.571 U*-	<0.571 U*-	--	--	--	--	--	--	--	--
3-Methylchloranthrene	--	--	--	--	<0.571 U*-	<0.571 U*-	<0.571 U*-	--	--	--	--	--	--	--	--
3-Methylphenol, 4-Methylphenol	--	--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
3-Nitroaniline	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
4-Aminobiphenyl	--	--	--	--	<0.571 U*-	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	--	--	--	--	<0.571 U	<0.571 U	<0.571 U*+	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
4-Dimethylaminoazobenzene	--	--	--	--	<0.571 U*-	<0.571 U*+1	<0.571 U*+	--	--	--	--	--	--	--	--
4-Nitroaniline	--	--	--	--	<0.571 U*-	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
4-Nitroquinoline-N-Oxide	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
5-Nitro-o-Toluidine	--	--	--	--	<1.14 U*-	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
Acetophenone	--	--	--	--	<1.14 U	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
Aniline	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Aramite	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Aramite Peak 1	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Aramite Peak 2	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Benz(a)anthracene	--	--	--	--	<0.0286 U	0.0105 JB*+	0.0179 JI*+	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	<0.0571 U	<0.0571 U	<0.0571 U	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Benzyl Alcohol	--	--	--	--	1.32 B	0.666 J	<1.14 U	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Diallate	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--

Notes on Page 5.

**Table 4**  
**Quality Assurance/Quality Control Analytical Results**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Analyte Name	Location:	FB-01	FB-02	FB-03	RB-01	RB-02	RB-03	TB-01	TB-02	TB-03	TB-04	TB-05	TB-07	TB-08	TB-09
	Sample Date:	5/15/2024	5/9/2024	5/8/2024	5/14/2024	5/9/2024	5/8/2024	5/7/2024	5/7/2024	5/7/2024	5/8/2024	5/9/2024	5/13/2024	5/14/2024	5/15/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>															
Diallate Peak 1	--	--	--	--	<0.571 U*-	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
Diallate Peak 2	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	<0.114 U	<0.114 U	<0.114 U	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Diethyl phthalate	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
Dimethoate	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Dimethyl phthalate	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
Dimethylphenethylamine	--	--	--	--	<5.71 U*-	<5.71 U*-	<5.71 U*-	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	--	--	--	--	<1.14 U	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
Dinoseb	--	--	--	--	<0.571 U*+	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Diphenyl ether	--	--	--	--	0.0956 J	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Disulfoton	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Ethyl Methanesulfonate	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Famphur	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Hexachloro-1,3-butadiene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Hexachloroethane	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Hexachloropropene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Isosafrole	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Isosafrole Peak 1	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Isosafrole Peak 2	--	--	--	--	<0.571 U*-	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Methapyrilene	--	--	--	--	<2.29 U	<2.29 U	<2.29 U	--	--	--	--	--	--	--	--
Methyl methanesulfonate	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Methyl parathion	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Nitrobenzene	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
N-Nitrosodiethylamine	--	--	--	--	<1.14 U	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	--	--	--	--	<0.571 U*-	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
N-Nitrosodi-n-butylamine	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U*+	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	--	--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
N-Nitrosomorpholine	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
N-Nitroso-N-methylethylamine	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
N-Nitrosopiperidine	--	--	--	--	<1.14 U	<1.14 U*+	<1.14 U	--	--	--	--	--	--	--	--
N-Nitrosopyrrolidine	--	--	--	--	<0.571 U*-	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
o,o,o-Triethyl phosphorothioate	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
o,o-Diethyl o-pyrazinyl phosphorothioate	--	--	--	--	<1.14 U	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
o-Toluidine	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Parathion	--	--	--	--	<0.229 U	<0.229 U*+	<0.229 U*+	--	--	--	--	--	--	--	--

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**Table 4**  
**Quality Assurance/Quality Control Analytical Results**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**

Analyte Name	Location:	FB-01	FB-02	FB-03	RB-01	RB-02	RB-03	TB-01	TB-02	TB-03	TB-04	TB-05	TB-07	TB-08	TB-09
	Sample Date:	5/15/2024	5/9/2024	5/8/2024	5/14/2024	5/9/2024	5/8/2024	5/7/2024	5/7/2024	5/7/2024	5/8/2024	5/9/2024	5/13/2024	5/14/2024	5/15/2024
<b>Semivolatile Organic Compounds Method 8270D (continued)</b>															
p-Chloroaniline	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Pentachlorobenzene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Pentachloronitrobenzene	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Pentachlorophenol	--	--	--	--	<1.14 U	<1.14 U	<1.14 U	--	--	--	--	--	--	--	--
Phenacetin	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Phenol	--	--	--	--	<2.86 U	<2.86 U	<2.86 U	--	--	--	--	--	--	--	--
Phorate	--	--	--	--	<0.571 U	<0.571 U	<0.571 U*+	--	--	--	--	--	--	--	--
p-Phenylenediamine	--	--	--	--	<1.14 U*-	<1.14 U	<1.14 U*-	--	--	--	--	--	--	--	--
Propylamide	--	--	--	--	<0.571 U	<0.571 U*+	<0.571 U*+	--	--	--	--	--	--	--	--
Pyrene	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--
Pyridine	--	--	--	--	<2.86 U*1	<2.86 U	<2.86 U*1	--	--	--	--	--	--	--	--
Safrole	--	--	--	--	<0.571 U	<0.571 U*1	<0.571 U	--	--	--	--	--	--	--	--
Sulfotep	--	--	--	--	<0.571 U	<0.571 U	<0.571 U	--	--	--	--	--	--	--	--

**Notes:**

Results are reported in micrograms per liter.

Detections are in **bold** print.

\* LCS or LCS duplicate is outside acceptance limits.

\*- LCS and/or LCS duplicate is outside acceptance limits, low biased.

\*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.

\*1 LCS/LCS duplicate relative percent difference exceeds control limits.

< / U - Indicates analyte was analyzed for but not detected.

B - Compound found in blank and sample.

J - Result is less than the reporting limit but greater than or equal to the method detection limit.

**Abbreviations:**

FB - Field blank.

LCS - Laboratory control sample.

RB - Rinsate blank.

TB - Trip blank.

# **Attachment A**

**Summary of Depth-to-Groundwater Measurements  
from TP-18**



**Attachment A**  
**Summary of Depth-to-Groundwater Measurements from TP-18**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Date	Averaged data over 24-hour period from TP-18			Comments
	Level Troll (ft of water above transducer)	Depth-to-Groundwater (ft btoc)	Groundwater Elevation <sup>(1)</sup> (ft msl)	
6/30/2024	5.17	6.13	163.46	(2)
6/29/2024	5.22	6.08	163.51	(2)
6/28/2024	5.28	6.02	163.57	(2)
6/27/2024	5.34	5.96	163.63	(2)
6/26/2024	5.40	5.90	163.69	(2)
6/25/2024	5.43	5.87	163.72	(2)
6/24/2024	5.47	5.83	163.76	(2)
6/23/2024	5.54	5.76	163.83	(2)
6/22/2024	5.59	5.71	163.88	(2)
6/22/2024	5.62	5.68	163.91	(2)
6/21/2024	5.65	5.65	163.94	(2)
6/20/2024	5.70	5.60	163.99	(2)
6/19/2024	5.77	5.53	164.06	(2)
6/18/2024	5.82	5.48	164.11	(2)
6/17/2024	5.88	5.42	164.17	(2)
6/16/2024	5.93	5.37	164.22	(2)
6/15/2024	6.02	5.28	164.31	(2)
6/14/2024	6.11	5.19	164.40	(2)
6/13/2024	6.20	5.10	164.49	(2)
6/12/2024	6.30	5.00	164.59	(2)
6/11/2024	6.44	4.86	164.73	(2)
6/10/2024	6.61	4.69	164.90	(2)
6/9/2024	6.76	4.54	165.05	(2)
6/8/2024	6.90	4.40	165.19	(2)
6/7/2024	7.02	4.28	165.31	(2)
6/6/2024	6.78	4.52	165.07	(2)
6/5/2024	6.36	4.94	164.65	(2)
6/4/2024	6.38	4.92	164.67	(2)
6/3/2024	6.43	4.87	164.72	(2)
6/2/2024	6.48	4.82	164.77	(2)
6/1/2024	6.51	4.79	164.80	(2)
5/31/2024	6.55	4.75	164.84	(2)
5/30/2024	6.62	4.68	164.91	(2)
5/29/2024	6.62	4.68	164.91	(2)
5/28/2024	6.69	4.61	164.98	(2)
5/27/2024	6.82	4.48	165.11	(2)
5/26/2024	6.94	4.36	165.23	(2)

Footnotes on Page 4.

**Attachment A**  
**Summary of Depth-to-Groundwater Measurements from TP-18**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Date	Averaged data over 24-hour period from TP-18			Comments
	Level Troll (ft of water above transducer)	Depth-to-Groundwater (ft btoc)	Groundwater Elevation <sup>(1)</sup> (ft msl)	
5/25/2024	7.07	4.23	165.36	(2)
5/24/2024	7.22	4.08	165.51	(2)
5/23/2024	7.36	3.94	165.65	(2)
5/22/2024	7.52	3.78	165.81	(2)
5/21/2024	7.72	3.58	166.01	(2)
5/20/2024	8.09	3.21	166.38	(2)
5/19/2024	7.90	3.40	166.19	(2)
5/18/2024	7.64	3.66	165.93	(2)
5/17/2024	8.00	3.30	166.29	(2)
5/16/2024	8.34	2.96	166.63	(2)
5/15/2024	8.12	3.18	166.41	(2)
5/14/2024	7.97	3.33	166.26	(2)
5/13/2024	6.40	4.90	164.69	(2)
5/12/2024	5.85	5.45	164.14	(2)
5/11/2024	5.90	5.40	164.19	(2)
5/10/2024	6.03	5.27	164.32	(2)
5/9/2024	6.02	5.28	164.31	(2)
5/8/2024	6.10	5.20	164.39	(2)
5/7/2024	6.17	5.13	164.46	(2)
5/6/2024	6.55	4.75	164.84	(2)
5/5/2024	6.55	4.75	164.84	(2)
5/4/2024	6.49	4.81	164.78	(2)
5/3/2024	6.42	4.88	164.71	(2)
5/2/2024	6.36	4.94	164.65	(2)
5/1/2024	6.30	5.00	164.59	(2)
4/30/2024	7.14	4.16	165.43	(2)
4/29/2024	7.07	4.23	165.36	(2)
4/28/2024	6.96	4.34	165.25	(2)
4/27/2024	6.88	4.42	165.17	(2)
4/26/2024	6.79	4.51	165.08	(2)
4/25/2024	6.69	4.61	164.98	(2)
4/24/2024	6.62	4.68	164.91	(2)
4/23/2024	6.62	4.68	164.91	(2)
4/22/2024	7.22	4.08	165.51	(2)
4/21/2024	7.19	4.11	165.48	(2)
4/20/2024	7.11	4.19	165.40	(2)
4/19/2024	7.23	4.07	165.52	(2)

Footnotes on Page 4.

**Attachment A**  
**Summary of Depth-to-Groundwater Measurements from TP-18**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Date	Averaged data over 24-hour period from TP-18			Comments
	Level Troll (ft of water above transducer)	Depth-to-Groundwater (ft btoc)	Groundwater Elevation <sup>(1)</sup> (ft msl)	
4/18/2024	7.36	3.94	165.65	(2)
4/17/2024	7.49	3.81	165.78	(2)
4/16/2024	7.71	3.59	166.00	(2)
4/15/2024	7.84	3.46	166.13	(2)
4/14/2024	8.04	3.26	166.33	(2)
4/13/2024	8.25	3.05	166.54	(2)
4/12/2024	8.50	2.80	166.79	(2)
4/11/2024	8.81	2.49	167.10	(2)
4/10/2024	7.93	3.37	166.22	(2)
4/9/2024	7.32	3.98	165.61	(2)
4/8/2024	7.27	4.03	165.56	(2)
4/7/2024	7.51	3.79	165.80	(2)
4/6/2024	7.40	3.90	165.69	(2)
4/5/2024	7.67	3.63	165.96	(2)
4/4/2024	7.86	3.44	166.15	(2)
4/3/2024	8.08	3.22	166.37	(2)
4/2/2024	8.25	3.05	166.54	(2)
4/1/2024	8.41	2.89	166.70	(2)
3/31/2024	8.59	2.71	166.88	(2)
3/30/2024	8.81	2.49	167.10	(2)
3/29/2024	9.05	2.25	167.34	(2)
3/28/2024	9.18	2.12	167.47	(2)
3/27/2024	9.45	1.85	167.74	(2)
3/26/2024	9.18	2.12	167.47	(2)
3/25/2024	8.51	2.79	166.80	(2)
3/24/2024	8.30	3.00	166.59	(2)
3/22/2024	8.69	2.61	166.98	(2)
3/21/2024	8.86	2.44	167.15	(2)
3/20/2024	9.17	2.13	167.46	(3)
3/19/2024	9.36	1.94	167.65	(3)
3/18/2024	9.71	1.59	168.00	(3)
3/17/2024	8.94	2.36	167.23	(3)
3/16/2024	8.91	2.39	167.20	(3)
3/15/2024	8.10	3.20	166.39	(3)
3/14/2024	8.28	3.02	166.57	(3)
3/13/2024	8.51	2.79	166.80	(3)
3/12/2024	8.73	2.57	167.02	(3)

Footnotes on Page 4.

**Attachment A**  
**Summary of Depth-to-Groundwater Measurements from TP-18**  
**Monthly Progress Report (June 2024)**  
**Hercules Superfund Site**  
**Hattiesburg, Mississippi**



Date	Averaged data over 24-hour period from TP-18			Comments
	Level Troll (ft of water above transducer)	Depth-to-Groundwater (ft btoc)	Groundwater Elevation <sup>(1)</sup> (ft msl)	
3/11/2024	9.00	2.30	167.29	(3)
3/10/2024	9.58	1.72	167.87	(3)
3/9/2024	10.08	1.22	168.37	(3)
3/8/2024	7.67	3.63	165.96	(3)
3/7/2024	7.85	3.45	166.14	(3)
3/6/2024	6.97	4.33	165.26	(3)
3/5/2024	6.97	4.33	165.26	(3)
3/4/2024	7.02	4.28	165.31	(3)
3/3/2024	7.11	4.19	165.40	(3)
3/2/2024	6.72	4.58	165.01	(3)
3/1/2024	5.33	5.97	163.62	(3)
2/29/2024	5.35	5.95	163.64	(3)
2/28/2024	5.45	5.85	163.74	(3)
2/27/2024	5.49	5.81	163.78	(3)
2/26/2024	5.51	5.79	163.80	(3)
2/25/2024	5.54	5.76	163.83	(3)
2/24/2024	5.61	5.69	163.90	(3)
2/23/2024	5.72	5.58	164.01	(3)
2/22/2024	5.72	5.58	164.01	(3)
2/21/2024	5.73	5.57	164.02	(3)
2/20/2024	5.79	5.51	164.08	(3)
2/19/2024	5.85	5.45	164.14	(3)
2/18/2024	5.89	5.41	164.18	(3)
2/17/2024	5.98	5.32	164.27	(3)
2/16/2024	5.99	5.31	164.28	(3)
2/15/2024	5.99	5.31	164.28	(3)
2/14/2024	5.97	5.33	164.26	(3)
2/13/2024	5.91	5.39	164.20	(3)
2/9/2024	5.89	5.41	164.18	(3)

**Notes:**

- (1) - Top of casing elevation for TP-18 is 169.593 feet relative to mean sea level using the North American Vertical Datum of 1988.
- (2) - Data extracted from manual transducer download.
- (3) - Data exported from telemetry cloud.

**Abbreviations:**

- ft - feet.
- ft btoc - feet below top of casing.
- ft msl - feet mean sea level.

# **Attachment B**

**Laboratory Analytical Reports**

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/30/2024 9:20:38 AM

**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-73911-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73911-1

Job ID: 860-73911-1

Eurofins Houston

## Job Narrative 860-73911-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/9/2024 10:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

### GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-159779 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-160047 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-159586 and analytical batch 860-159684 was outside the upper control limits.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: Dinoseb, Disulfoton, Famphur and Methapyrilene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analyte: Disulfoton.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-86 (860-73911-2), MW-87 (860-73911-3) and MW-85 (860-73911-5). These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Acetylaminofluorene, 4-Nitroquinoline-1-oxide, Aramite Peak 1, Aramite Peak 2, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Nitrobenzene, Pentachloronitrobenzene, Phenacetin and Pronamide. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Job ID: 860-73911-1 (Continued)

Eurofins Houston

Method 8270E\_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-79 (860-73911-1). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-160172 and analytical batch 860-160340 was outside the upper control limits.

Method 8270E\_QQQ: The method blank for preparation batch 860-160172 and analytical batch 860-160340 contained Benzyl alcohol and Pronamide above the method detection limit. These target analytes concentration were less than the reporting limit in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine, and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

Method 8270E\_QQQ: Benzyl alcohol was detected above the reporting limit (RL) in the method blank associated with preparation batch 860-159586 and analytical batch 860-159684 as well as in the following sample: (MB 860-159586/1-A). All affected samples were re-extracted and re-analyzed.

Method 8270E\_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-39 (860-73911-4). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-79 (860-73911-1) and MW-39 (860-73911-4). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Surrogate recovery for the following samples were outside control limits: MW-79 (860-73911-1), MW-86 (860-73911-2), MW-87 (860-73911-3), MW-39 (860-73911-4) and MW-85 (860-73911-5). Re-extraction and re-analysis was performed and surrogate recovery was outside control limits. Both sets of data have reported.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-79 (860-73911-1), MW-86 (860-73911-2), MW-87 (860-73911-3), MW-39 (860-73911-4) and MW-85 (860-73911-5). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Client Sample ID: MW-79

## Lab Sample ID: 860-73911-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.48		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	8.01		1.00	0.455	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	2.85		1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	0.390	J	1.00	0.385	ug/L	1		8260D	Total/NA
Toluene	0.499	J	1.00	0.475	ug/L	1		8260D	Total/NA
Vinyl chloride	0.597	J	2.00	0.428	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.282	J	0.571	0.0941	ug/L	1		8270E	Total/NA
1,2-Dichlorobenzene	0.335	J	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.296	J	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.328	J	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dioxane	3.94		0.571	0.0890	ug/L	1		8270E	Total/NA
1,4-Dioxane	7.07		0.571	0.0890	ug/L	1		8270E	Total/NA
Acenaphthene	0.495	J	0.571	0.107	ug/L	1		8270E	Total/NA
Acenaphthene	0.505	J	0.571	0.107	ug/L	1		8270E	Total/NA
Aniline	0.0596	J I	0.571	0.0580	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0255	J I B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0107	J	0.0571	0.0100	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.24	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.13	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	0.111	J	0.571	0.107	ug/L	1		8270E	Total/NA
Dibenzofuran	0.109	J	0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.134	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Fluorene	0.152	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	0.187	J	0.571	0.0944	ug/L	1		8270E	Total/NA
Naphthalene	0.177	J **	0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol	1.76	J	2.86	0.448	ug/L	1		8270E	Total/NA
Phenol	10.4		2.86	0.448	ug/L	1		8270E	Total/NA
Diphenyl ether	455		28.6	4.55	ug/L	50		8270E	Total/NA
1,1'-Biphenyl	0.495	J	0.571	0.0981	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	0.345	J	0.571	0.138	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	0.359	J	0.571	0.138	ug/L	1		8270E	Total/NA
Diphenyl ether - DL	439		28.6	4.55	ug/L	50		8270E	Total/NA

## Client Sample ID: MW-86

## Lab Sample ID: 860-73911-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.142	J	0.571	0.0890	ug/L	1		8270E	Total/NA
1,4-Dioxane	0.196	J I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0180	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.28	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.643	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	3.07		0.571	0.0910	ug/L	1		8270E	Total/NA
Diphenyl ether	3.25		0.571	0.0910	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-87

## Lab Sample ID: 860-73911-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0122	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.41	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.938	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.130	J	0.571	0.0910	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Client Sample ID: MW-39

## Lab Sample ID: 860-73911-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.94		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	8.13		1.00	0.455	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.656	J	1.00	0.457	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	5.85		1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	0.616	J	1.00	0.385	ug/L	1		8260D	Total/NA
Toluene	1.18		1.00	0.475	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.188	J	0.571	0.0941	ug/L	1		8270E	Total/NA
1,2-Dichlorobenzene	0.214	J	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.266	J	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.287	J	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dioxane	1.77		0.571	0.0890	ug/L	1		8270E	Total/NA
1,4-Dioxane	2.39		0.571	0.0890	ug/L	1		8270E	Total/NA
Acenaphthene	0.109	J	0.571	0.107	ug/L	1		8270E	Total/NA
Acenaphthene	0.111	J	0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.51	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.15	B	1.14	0.600	ug/L	1		8270E	Total/NA
Phenol	0.754	J	2.86	0.448	ug/L	1		8270E	Total/NA
Phenol	3.69		2.86	0.448	ug/L	1		8270E	Total/NA
Diphenyl ether	89.6		5.71	0.910	ug/L	10		8270E	Total/NA
2-Chlorophenol	0.0789	J	0.571	0.0756	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	0.270	J	0.571	0.138	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	0.250	J	0.571	0.138	ug/L	1		8270E	Total/NA
Diphenyl ether - DL	64.1		5.71	0.910	ug/L	10		8270E	Total/NA

## Client Sample ID: MW-85

## Lab Sample ID: 860-73911-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.135	J	0.571	0.0890	ug/L	1		8270E	Total/NA
1,4-Dioxane	0.110	J I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.952	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	1.64		0.571	0.0910	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-01 (050724)

## Lab Sample ID: 860-73911-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 14:10	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 14:10	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 14:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 14:10	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 14:10	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 14:10	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 14:10	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 14:10	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 14:10	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 14:10	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 14:10	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 14:10	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 14:10	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 14:10	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 14:10	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 14:10	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 14:10	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 14:10	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 14:10	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 14:10	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 14:10	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 14:10	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 14:10	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 14:10	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 14:10	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 14:10	1
<b>Benzene</b>	<b>5.48</b>		1.00	0.460	ug/L			05/13/24 14:10	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 14:10	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 14:10	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 14:10	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 14:10	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 14:10	1
<b>Chlorobenzene</b>	<b>8.01</b>		1.00	0.455	ug/L			05/13/24 14:10	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 14:10	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 14:10	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 14:10	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 14:10	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 14:10	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 14:10	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 14:10	1
<b>Cumene (isopropylbenzene)</b>	<b>2.85</b>		1.00	0.592	ug/L			05/13/24 14:10	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 14:10	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 14:10	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 14:10	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 14:10	1
<b>Ethylbenzene</b>	<b>0.390</b>	<b>J</b>	1.00	0.385	ug/L			05/13/24 14:10	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 14:10	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 14:10	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 14:10	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 14:10	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 14:10	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 14:10	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 14:10	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 14:10	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 14:10	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 14:10	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 14:10	1
<b>Toluene</b>	<b>0.499</b>	<b>J</b>	1.00	0.475	ug/L			05/13/24 14:10	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 14:10	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 14:10	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 14:10	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 14:10	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 14:10	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 14:10	1
<b>Vinyl chloride</b>	<b>0.597</b>	<b>J</b>	2.00	0.428	ug/L			05/13/24 14:10	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 14:10	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 14:10	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 14:10	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/13/24 14:10	1
Dibromofluoromethane (Surr)	102		75 - 131		05/13/24 14:10	1
Toluene-d8 (Surr)	100		80 - 120		05/13/24 14:10	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		05/14/24 11:49	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 11:49	1
Dibromofluoromethane (Surr)	112		75 - 131		05/14/24 11:49	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 11:49	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 21:18	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>1,2-Dichlorobenzene</b>	<b>0.282</b>	<b>J</b>	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>1,2-Dichlorobenzene</b>	<b>0.335</b>	<b>J</b>	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 21:50	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 21:18	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>1,4-Dichlorobenzene</b>	<b>0.296</b>	<b>J</b>	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>1,4-Dichlorobenzene</b>	<b>0.328</b>	<b>J</b>	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/14/24 21:24	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 21:50	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>1,4-Dioxane</b>	<b>3.94</b>		0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>1,4-Dioxane</b>	<b>7.07</b>		0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 21:50	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 21:18	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/17/24 21:50	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 21:18	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 21:50	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 21:18	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>Acenaphthene</b>	<b>0.495</b>	<b>J</b>	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Acenaphthene</b>	<b>0.505</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 21:50	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 21:18	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 21:50	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Aniline</b>	<b>0.0596</b>	<b>J I</b>	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 21:50	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 21:18	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 21:50	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 21:18	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

Date Collected: 05/07/24 08:44

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]anthracene</b>	<b>0.0255</b>	<b>J I B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/17/24 21:50	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Benzo[a]pyrene</b>	<b>0.0107</b>	<b>J</b>	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 21:50	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 21:18	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 21:50	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 21:18	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 21:50	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 21:18	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>Benzyl alcohol</b>	<b>1.24</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Benzyl alcohol</b>	<b>1.13</b>	<b>J B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 21:50	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 21:18	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 21:50	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 21:18	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 21:50	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 21:18	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 21:50	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 21:18	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 21:50	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 21:18	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 21:50	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 21:18	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>Dibenzofuran</b>	<b>0.111</b>	<b>J</b>	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Dibenzofuran</b>	<b>0.109</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 21:50	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 21:18	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 21:50	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 21:18	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 21:50	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 21:18	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 21:50	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 21:18	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 21:50	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 21:18	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>Fluorene</b>	<b>0.134</b>	<b>J</b>	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Fluorene</b>	<b>0.152</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 21:50	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 21:18	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 21:50	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 21:18	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 21:50	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 21:18	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 21:50	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 21:18	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 21:50	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:18	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 21:50	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 21:18	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 21:50	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Naphthalene</b>	<b>0.187</b>	<b>J</b>	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Naphthalene</b>	<b>0.177</b>	<b>J**</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 21:50	1
Nitrobenzene	<0.0736	U**	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 21:18	1
Nitrobenzene	<0.0736	U**	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 21:50	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 21:18	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 21:50	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 21:18	1
Phenanthrene	<0.134	U**	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>Phenol</b>	<b>1.76</b>	<b>J</b>	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>Phenol</b>	<b>10.4</b>		2.86	0.448	ug/L		05/14/24 14:30	05/17/24 21:50	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 21:18	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 21:50	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 21:18	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 21:50	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 00:54	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosopiperidine	<0.467	U**	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 21:50	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 21:18	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>Diphenyl ether</b>	<b>455</b>		28.6	4.55	ug/L		05/10/24 10:20	05/14/24 14:56	50
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>1,1'-Biphenyl</b>	<b>0.495</b>	<b>J</b>	0.571	0.0981	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 21:50	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 21:18	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 21:50	1
1,3,5-Trinitrobenzene	<0.119	U**	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 21:18	1
1,3,5-Trinitrobenzene	<0.119	U**	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 21:50	1
1,3-Dinitrobenzene	<0.0773	U**	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 21:18	1
1,3-Dinitrobenzene	<0.0773	U**	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 21:50	1
1,4-Naphthoquinone	<0.314	U**	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 21:18	1
1,4-Naphthoquinone	<0.314	U**	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 21:50	1
1-Naphthylamine	<0.149	U*	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 21:18	1
1-Naphthylamine	<0.149	U* *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 21:50	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 21:18	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Acetylaminofluorene	<1.26	U**	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Acetylaminofluorene	<1.26	U**	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 21:50	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 21:50	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 21:18	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 21:50	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 21:18	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 21:50	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 21:18	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 21:50	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 21:18	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 21:50	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 21:18	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 21:50	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 21:18	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 21:50	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 21:18	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 21:50	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 21:18	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 21:50	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 21:18	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 21:50	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 21:18	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 21:50	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 21:18	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 21:50	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 21:18	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 21:50	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 21:18	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 21:50	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 21:18	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 21:50	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 21:18	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 21:50	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 21:18	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 21:50	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 21:18	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 21:50	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 21:18	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 21:50	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 21:18	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 21:50	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 21:18	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 21:50	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 21:18	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 21:50	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 21:18	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 21:50	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 21:18	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 21:50	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 21:18	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 21:50	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.345</b>	<b>J</b>	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 21:18	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.359</b>	<b>J</b>	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 21:50	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 21:18	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 21:50	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:18	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 21:50	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:18	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 21:50	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 21:18	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 21:50	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 21:18	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 21:50	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:18	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 21:50	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 21:18	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 21:50	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 21:18	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 21:50	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 21:18	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 21:50	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 21:18	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 21:50	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 21:18	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 21:50	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 21:18	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130	05/10/24 10:20	05/10/24 21:18	1
2,4,6-Tribromophenol (Surr)	88	I	35 - 130	05/10/24 10:20	05/14/24 14:56	50
2,4,6-Tribromophenol (Surr)	157	S1+	35 - 130	05/10/24 10:20	05/14/24 21:24	1
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130	05/14/24 14:30	05/17/24 21:50	1
2-Fluorobiphenyl	113		43 - 130	05/10/24 10:20	05/10/24 21:18	1
2-Fluorobiphenyl	144	S1+	43 - 130	05/10/24 10:20	05/14/24 14:56	50
2-Fluorobiphenyl	129		43 - 130	05/10/24 10:20	05/14/24 21:24	1
2-Fluorobiphenyl	137	S1+	43 - 130	05/14/24 14:30	05/17/24 21:50	1
2-Fluorophenol (Surr)	81		19 - 120	05/10/24 10:20	05/10/24 21:18	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	83	I	19 - 120	05/10/24 10:20	05/14/24 14:56	50
2-Fluorophenol (Surr)	76		19 - 120	05/10/24 10:20	05/14/24 21:24	1
2-Fluorophenol (Surr)	146	S1+	19 - 120	05/14/24 14:30	05/17/24 21:50	1
Nitrobenzene-d5 (Surr)	180	S1+	37 - 133	05/10/24 10:20	05/10/24 21:18	1
Nitrobenzene-d5 (Surr)	170	S1+	37 - 133	05/10/24 10:20	05/14/24 14:56	50
Nitrobenzene-d5 (Surr)	194	S1+	37 - 133	05/10/24 10:20	05/14/24 21:24	1
Nitrobenzene-d5 (Surr)	163	S1+	37 - 133	05/14/24 14:30	05/17/24 21:50	1
Phenol-d5 (Surr)	49		8 - 124	05/10/24 10:20	05/10/24 21:18	1
Phenol-d5 (Surr)	77	I	8 - 124	05/10/24 10:20	05/14/24 14:56	50
Phenol-d5 (Surr)	41		8 - 124	05/10/24 10:20	05/14/24 21:24	1
Phenol-d5 (Surr)	112		8 - 124	05/14/24 14:30	05/17/24 21:50	1
p-Terphenyl-d14	124		47 - 130	05/10/24 10:20	05/10/24 21:18	1
p-Terphenyl-d14	115		47 - 130	05/10/24 10:20	05/14/24 14:56	50
p-Terphenyl-d14	120		47 - 130	05/10/24 10:20	05/14/24 21:24	1
p-Terphenyl-d14	156	S1+	47 - 130	05/14/24 14:30	05/17/24 21:50	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	439		28.6	4.55	ug/L		05/14/24 14:30	05/17/24 22:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119	I	35 - 130	05/14/24 14:30	05/17/24 22:19	50
2-Fluorobiphenyl	97		43 - 130	05/14/24 14:30	05/17/24 22:19	50
2-Fluorophenol (Surr)	131	S1+	19 - 120	05/14/24 14:30	05/17/24 22:19	50
Nitrobenzene-d5 (Surr)	148	S1+	37 - 133	05/14/24 14:30	05/17/24 22:19	50
Phenol-d5 (Surr)	99		8 - 124	05/14/24 14:30	05/17/24 22:19	50
p-Terphenyl-d14	159	S1+	47 - 130	05/14/24 14:30	05/17/24 22:19	50

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 11:06	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 11:06	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 11:06	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 11:06	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 11:06	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 11:06	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 11:06	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 11:06	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 11:06	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 11:06	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 11:06	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 11:06	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 11:06	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 11:06	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 11:06	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 11:06	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 11:06	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 11:06	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 11:06	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 11:06	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 11:06	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 11:06	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 11:06	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 11:06	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 11:06	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 11:06	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 11:06	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 11:06	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 11:06	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 11:06	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 11:06	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 11:06	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 11:06	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 11:06	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 11:06	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 11:06	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 11:06	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 11:06	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 11:06	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 11:06	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 11:06	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 11:06	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 11:06	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 11:06	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 11:06	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 11:06	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 11:06	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 11:06	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 11:06	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 11:06	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 11:06	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 11:06	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 11:06	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 11:06	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 11:06	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 11:06	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 11:06	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 11:06	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 11:06	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 11:06	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 11:06	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 11:06	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 11:06	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 11:06	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 11:06	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 11:06	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 11:06	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/13/24 11:06	1
Dibromofluoromethane (Surr)	99		75 - 131		05/13/24 11:06	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 11:06	1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		05/14/24 12:09	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 12:09	1
Dibromofluoromethane (Surr)	115		75 - 131		05/14/24 12:09	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 12:09	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/14/24 21:54	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,4,5-Trichlorophenol	<0.143	U**	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,4,6-Trichlorophenol	<0.231	U**	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,4-Dichlorophenol	<0.140	U**	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 22:47	1
<b>1,4-Dioxane</b>	<b>0.142</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 21:48	1
<b>1,4-Dioxane</b>	<b>0.196</b>	<b>J I</b>	0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,4-Dinitrotoluene	<0.205	U**	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,4-Dinitrotoluene	<0.205	U**	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,6-Dinitrotoluene	<0.116	U**	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,6-Dinitrotoluene	<0.116	U**	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Chloronaphthalene	<0.378	U**	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 22:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

Date Collected: 05/07/24 08:46

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 22:47	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 21:48	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/17/24 22:47	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 21:48	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 22:47	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 21:48	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 22:47	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 21:48	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 22:47	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 21:48	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 22:47	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 21:48	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 22:47	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 21:48	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 22:47	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 21:48	1
<b>Benzo[a]anthracene</b>	<b>0.0180</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/17/24 22:47	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 21:48	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 22:47	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 21:48	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 22:47	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 21:48	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 22:47	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 21:48	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 22:47	1
<b>Benzyl alcohol</b>	<b>1.28</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/10/24 21:48	1
<b>Benzyl alcohol</b>	<b>0.643</b>	<b>J B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 22:47	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 21:48	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 22:47	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 21:48	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 22:47	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 21:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 22:47	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 21:48	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 22:47	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 21:48	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 22:47	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 21:48	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 22:47	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 21:48	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 22:47	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 21:48	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 22:47	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 21:48	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 22:47	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 21:48	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 22:47	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 21:48	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 22:47	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 21:48	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 22:47	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 21:48	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 22:47	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 21:48	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 22:47	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 21:48	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 22:47	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 21:48	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 22:47	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 21:48	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 22:47	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:48	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 22:47	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 21:48	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 22:47	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 21:48	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 22:47	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 21:48	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 22:47	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 21:48	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 22:47	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 21:48	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 22:47	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 21:48	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/17/24 22:47	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 21:48	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 22:47	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

Date Collected: 05/07/24 08:46

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 21:48	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 22:47	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 01:22	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 22:47	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 21:48	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 22:47	1
Diphenyl ether	<b>3.07</b>		0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 21:48	1
Diphenyl ether	<b>3.25</b>		0.571	0.0910	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 22:47	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 21:48	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 22:47	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 21:48	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 22:47	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 21:48	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 22:47	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 21:48	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 22:47	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 21:48	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 22:47	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 21:48	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 22:47	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 21:48	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 22:47	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 21:48	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 22:47	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 21:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 22:47	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 21:48	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 22:47	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 21:48	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 22:47	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 21:48	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 22:47	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 21:48	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 22:47	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 21:48	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 22:47	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 21:48	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 22:47	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 21:48	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 22:47	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 21:48	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 22:47	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 21:48	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 22:47	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 21:48	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 22:47	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 21:48	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 22:47	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 21:48	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 22:47	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 21:48	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 22:47	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 21:48	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 22:47	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 21:48	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 22:47	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 21:48	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 22:47	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 21:48	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 22:47	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 21:48	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 22:47	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 21:48	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 22:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 21:48	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 22:47	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:48	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 22:47	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:48	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 22:47	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 21:48	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 22:47	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 21:48	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 22:47	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 21:48	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 22:47	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 21:48	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 22:47	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 21:48	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 22:47	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 21:48	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 22:47	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 21:48	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 22:47	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 21:48	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 22:47	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 21:48	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	136	S1+	35 - 130	05/10/24 10:20	05/10/24 21:48	1
2,4,6-Tribromophenol (Surr)	143	S1+	35 - 130	05/10/24 10:20	05/14/24 21:54	1
2,4,6-Tribromophenol (Surr)	114		35 - 130	05/14/24 14:30	05/17/24 22:47	1
2-Fluorobiphenyl	112		43 - 130	05/10/24 10:20	05/10/24 21:48	1
2-Fluorobiphenyl	123		43 - 130	05/10/24 10:20	05/14/24 21:54	1
2-Fluorobiphenyl	131	S1+	43 - 130	05/14/24 14:30	05/17/24 22:47	1
2-Fluorophenol (Surr)	79		19 - 120	05/10/24 10:20	05/10/24 21:48	1
2-Fluorophenol (Surr)	73		19 - 120	05/10/24 10:20	05/14/24 21:54	1
2-Fluorophenol (Surr)	120		19 - 120	05/14/24 14:30	05/17/24 22:47	1
Nitrobenzene-d5 (Surr)	169	S1+	37 - 133	05/10/24 10:20	05/10/24 21:48	1
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133	05/10/24 10:20	05/14/24 21:54	1
Nitrobenzene-d5 (Surr)	144	S1+	37 - 133	05/14/24 14:30	05/17/24 22:47	1
Phenol-d5 (Surr)	49		8 - 124	05/10/24 10:20	05/10/24 21:48	1
Phenol-d5 (Surr)	41		8 - 124	05/10/24 10:20	05/14/24 21:54	1
Phenol-d5 (Surr)	90		8 - 124	05/14/24 14:30	05/17/24 22:47	1
p-Terphenyl-d14	107		47 - 130	05/10/24 10:20	05/10/24 21:48	1
p-Terphenyl-d14	106		47 - 130	05/10/24 10:20	05/14/24 21:54	1
p-Terphenyl-d14	135	S1+	47 - 130	05/14/24 14:30	05/17/24 22:47	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 11:26	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 11:26	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 11:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 11:26	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 11:26	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 11:26	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 11:26	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 11:26	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 11:26	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 11:26	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 11:26	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 11:26	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 11:26	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 11:26	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 11:26	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 11:26	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 11:26	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 11:26	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 11:26	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 11:26	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 11:26	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 11:26	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 11:26	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 11:26	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 11:26	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 11:26	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 11:26	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 11:26	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 11:26	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 11:26	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 11:26	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 11:26	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 11:26	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 11:26	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 11:26	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 11:26	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 11:26	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 11:26	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 11:26	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 11:26	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 11:26	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 11:26	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 11:26	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 11:26	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 11:26	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 11:26	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 11:26	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 11:26	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 11:26	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

**Date Collected: 05/07/24 09:37**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 11:26	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 11:26	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 11:26	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 11:26	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 11:26	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 11:26	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 11:26	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 11:26	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 11:26	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 11:26	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 11:26	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 11:26	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 11:26	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 11:26	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 11:26	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 11:26	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 11:26	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 11:26	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 11:26	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/13/24 11:26	1
Dibromofluoromethane (Surr)	99		75 - 131		05/13/24 11:26	1
Toluene-d8 (Surr)	103		80 - 120		05/13/24 11:26	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		05/14/24 12:30	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 12:30	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 12:30	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 12:30	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/14/24 22:24	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 23:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

**Date Collected: 05/07/24 09:37**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 23:16	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 22:17	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/17/24 23:16	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 22:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 23:16	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 22:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 23:16	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 22:17	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 23:16	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 22:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 23:16	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 22:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 23:16	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 22:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 23:16	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 22:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]anthracene</b>	<b>0.0122</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/17/24 23:16	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 22:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 23:16	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 22:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 23:16	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 22:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 23:16	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 22:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 23:16	1
<b>Benzyl alcohol</b>	<b>1.41</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/10/24 22:17	1
<b>Benzyl alcohol</b>	<b>0.938</b>	<b>J B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 23:16	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 22:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 23:16	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 22:17	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 23:16	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 22:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 23:16	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 22:17	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 23:16	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 22:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 23:16	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 22:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 23:16	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 22:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 23:16	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 22:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 23:16	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 22:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 23:16	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 22:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 23:16	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 22:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 23:16	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 22:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 23:16	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 22:17	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 23:16	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 22:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 23:16	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 22:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 23:16	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 22:17	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 23:16	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 22:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 23:16	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:16	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 22:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 23:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 22:17	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 23:16	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 22:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 23:16	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 22:17	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 23:16	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 22:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 23:16	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 22:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/17/24 23:16	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 22:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 23:16	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 22:17	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 23:16	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 01:50	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 23:16	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 22:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 23:16	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 22:17	1
<b>Diphenyl ether</b>	<b>0.130</b>	<b>J</b>	0.571	0.0910	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 23:16	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 22:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 23:16	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 22:17	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 23:16	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 22:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 22:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 23:16	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 22:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 23:16	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 22:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 23:16	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 22:17	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 23:16	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 22:17	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 23:16	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 22:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 23:16	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 22:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 23:16	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 22:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 23:16	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 22:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 23:16	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 22:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 23:16	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 22:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 23:16	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 22:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 23:16	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 22:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 23:16	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 22:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 23:16	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 22:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 23:16	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 22:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 23:16	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 22:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 23:16	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 22:17	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 23:16	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 22:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 23:16	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 22:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 23:16	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 22:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 23:16	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 22:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 23:16	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 22:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 23:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 22:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 23:16	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 22:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 23:16	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 22:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 23:16	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 22:17	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 23:16	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:17	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:16	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:17	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:16	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 22:17	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 23:16	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 22:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 23:16	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:17	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:16	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 22:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 23:16	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 22:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 23:16	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 22:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 23:16	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 22:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 23:16	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 22:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 23:16	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 22:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	151	S1+	35 - 130	05/10/24 10:20	05/10/24 22:17	1
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/10/24 10:20	05/14/24 22:24	1
2,4,6-Tribromophenol (Surr)	121		35 - 130	05/14/24 14:30	05/17/24 23:16	1
2-Fluorobiphenyl	108		43 - 130	05/10/24 10:20	05/10/24 22:17	1
2-Fluorobiphenyl	121		43 - 130	05/10/24 10:20	05/14/24 22:24	1
2-Fluorobiphenyl	125		43 - 130	05/14/24 14:30	05/17/24 23:16	1
2-Fluorophenol (Surr)	86		19 - 120	05/10/24 10:20	05/10/24 22:17	1
2-Fluorophenol (Surr)	78		19 - 120	05/10/24 10:20	05/14/24 22:24	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	109		19 - 120	05/14/24 14:30	05/17/24 23:16	1
Nitrobenzene-d5 (Surr)	180	S1+	37 - 133	05/10/24 10:20	05/10/24 22:17	1
Nitrobenzene-d5 (Surr)	188	S1+	37 - 133	05/10/24 10:20	05/14/24 22:24	1
Nitrobenzene-d5 (Surr)	148	S1+	37 - 133	05/14/24 14:30	05/17/24 23:16	1
Phenol-d5 (Surr)	55		8 - 124	05/10/24 10:20	05/10/24 22:17	1
Phenol-d5 (Surr)	44		8 - 124	05/10/24 10:20	05/14/24 22:24	1
Phenol-d5 (Surr)	77		8 - 124	05/14/24 14:30	05/17/24 23:16	1
p-Terphenyl-d14	102		47 - 130	05/10/24 10:20	05/10/24 22:17	1
p-Terphenyl-d14	103		47 - 130	05/10/24 10:20	05/14/24 22:24	1
p-Terphenyl-d14	131	S1+	47 - 130	05/14/24 14:30	05/17/24 23:16	1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

Date Collected: 05/07/24 09:54

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 11:47	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 11:47	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 11:47	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 11:47	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 11:47	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 11:47	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 11:47	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 11:47	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 11:47	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 11:47	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 11:47	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 11:47	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 11:47	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 11:47	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 11:47	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 11:47	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 11:47	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 11:47	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 11:47	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 11:47	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 11:47	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 11:47	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 11:47	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 11:47	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 11:47	1
<b>Benzene</b>	<b>6.94</b>		1.00	0.460	ug/L			05/13/24 11:47	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 11:47	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 11:47	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 11:47	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 11:47	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 11:47	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

Date Collected: 05/07/24 09:54

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chlorobenzene</b>	<b>8.13</b>		1.00	0.455	ug/L			05/13/24 11:47	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 11:47	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 11:47	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 11:47	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 11:47	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 11:47	1
<b>cis-1,2-Dichloroethene</b>	<b>0.656</b>	<b>J</b>	1.00	0.457	ug/L			05/13/24 11:47	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 11:47	1
<b>Cumene (isopropylbenzene)</b>	<b>5.85</b>		1.00	0.592	ug/L			05/13/24 11:47	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 11:47	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 11:47	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 11:47	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 11:47	1
<b>Ethylbenzene</b>	<b>0.616</b>	<b>J</b>	1.00	0.385	ug/L			05/13/24 11:47	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 11:47	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 11:47	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 11:47	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 11:47	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 11:47	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 11:47	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 11:47	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 11:47	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 11:47	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 11:47	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 11:47	1
<b>Toluene</b>	<b>1.18</b>		1.00	0.475	ug/L			05/13/24 11:47	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 11:47	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 11:47	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 11:47	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 11:47	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 11:47	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 11:47	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 11:47	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 11:47	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 11:47	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 11:47	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/13/24 11:47	1
Dibromofluoromethane (Surr)	100		75 - 131		05/13/24 11:47	1
Toluene-d8 (Surr)	99		80 - 120		05/13/24 11:47	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/14/24 12:50	1
4-Bromofluorobenzene (Surr)	96		74 - 124		05/14/24 12:50	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

Date Collected: 05/07/24 09:54

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		75 - 131		05/14/24 12:50	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 12:50	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>1,2-Dichlorobenzene</b>	<b>0.188</b>	<b>J</b>	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>1,2-Dichlorobenzene</b>	<b>0.214</b>	<b>J</b>	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 23:45	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>1,4-Dichlorobenzene</b>	<b>0.266</b>	<b>J</b>	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>1,4-Dichlorobenzene</b>	<b>0.287</b>	<b>J</b>	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/14/24 22:53	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>1,4-Dioxane</b>	<b>1.77</b>		0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>1,4-Dioxane</b>	<b>2.39</b>		0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 23:45	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 22:48	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/17/24 23:45	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 22:48	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 23:45	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 22:48	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 23:45	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:48	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:45	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

**Date Collected: 05/07/24 09:54**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 22:48	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 23:45	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 22:48	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 23:45	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 22:48	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 23:45	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 22:48	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>Acenaphthene</b>	<b>0.109</b>	<b>J</b>	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>Acenaphthene</b>	<b>0.111</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 23:45	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 22:48	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 23:45	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 22:48	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 23:45	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 22:48	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 23:45	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 22:48	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 14:30	05/17/24 23:45	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 22:48	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 23:45	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 22:48	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 23:45	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 22:48	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 23:45	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 22:48	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>Benzyl alcohol</b>	<b>1.51</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>Benzyl alcohol</b>	<b>1.15</b>	<b>B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 23:45	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 22:48	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 23:45	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 22:48	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 23:45	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 22:48	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 23:45	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 22:48	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 23:45	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 22:48	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 23:45	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 22:48	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 23:45	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 22:48	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 23:45	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 22:48	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 23:45	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 22:48	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 23:45	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 22:48	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 23:45	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 22:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

Date Collected: 05/07/24 09:54

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 23:45	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 22:48	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 23:45	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 22:48	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 23:45	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 22:48	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 23:45	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 22:48	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 23:45	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 22:48	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 23:45	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 22:48	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 23:45	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:48	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:45	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 22:48	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 23:45	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 22:48	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 23:45	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 22:48	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 23:45	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 22:48	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 23:45	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 22:48	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>Phenol</b>	<b>0.754</b>	<b>J</b>	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>Phenol</b>	<b>3.69</b>		2.86	0.448	ug/L		05/14/24 14:30	05/17/24 23:45	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 22:48	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 23:45	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 22:48	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 23:45	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 02:18	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 23:45	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 22:48	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>Diphenyl ether</b>	<b>89.6</b>		5.71	0.910	ug/L		05/10/24 10:20	05/13/24 22:14	10
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/17/24 23:45	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 22:48	1



# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

**Date Collected: 05/07/24 09:54**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 23:45	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 23:45	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 23:45	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 23:45	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 22:48	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 23:45	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 22:48	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 23:45	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 22:48	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>2-Chlorophenol</b>	<b>0.0789</b>	<b>J</b>	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 23:45	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 22:48	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 23:45	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 22:48	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 23:45	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 22:48	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 23:45	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 22:48	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 23:45	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 22:48	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 23:45	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 22:48	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 23:45	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 22:48	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 23:45	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 22:48	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 23:45	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 22:48	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 23:45	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 22:48	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 23:45	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 22:48	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 23:45	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 22:48	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 23:45	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 22:48	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 23:45	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 22:48	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 23:45	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

Date Collected: 05/07/24 09:54

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 22:48	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 23:45	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 22:48	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 23:45	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 22:48	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 23:45	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 22:48	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 23:45	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 22:48	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 23:45	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 22:48	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 23:45	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 22:48	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 23:45	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 22:48	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 23:45	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 22:48	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 23:45	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 22:48	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 23:45	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.270</b>	<b>J</b>	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 22:48	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.250</b>	<b>J</b>	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 23:45	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 22:48	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 23:45	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:48	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:45	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:48	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:45	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 22:48	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 23:45	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 22:48	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 23:45	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 22:48	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 23:45	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 22:48	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 23:45	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 22:48	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 23:45	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 22:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

**Date Collected: 05/07/24 09:54**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 23:45	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 22:48	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 23:45	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 22:48	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 23:45	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 22:48	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	151	S1+	35 - 130	05/10/24 10:20	05/10/24 22:48	1
2,4,6-Tribromophenol (Surr)	149	S1+	35 - 130	05/10/24 10:20	05/14/24 22:53	1
2,4,6-Tribromophenol (Surr)	132	S1+	35 - 130	05/14/24 14:30	05/17/24 23:45	1
2-Fluorobiphenyl	110		43 - 130	05/10/24 10:20	05/10/24 22:48	1
2-Fluorobiphenyl	123		43 - 130	05/10/24 10:20	05/14/24 22:53	1
2-Fluorobiphenyl	120		43 - 130	05/14/24 14:30	05/17/24 23:45	1
2-Fluorophenol (Surr)	86		19 - 120	05/10/24 10:20	05/10/24 22:48	1
2-Fluorophenol (Surr)	83		19 - 120	05/10/24 10:20	05/14/24 22:53	1
2-Fluorophenol (Surr)	121	S1+	19 - 120	05/14/24 14:30	05/17/24 23:45	1
Nitrobenzene-d5 (Surr)	174	S1+	37 - 133	05/10/24 10:20	05/10/24 22:48	1
Nitrobenzene-d5 (Surr)	184	S1+	37 - 133	05/10/24 10:20	05/14/24 22:53	1
Nitrobenzene-d5 (Surr)	158	S1+	37 - 133	05/14/24 14:30	05/17/24 23:45	1
Phenol-d5 (Surr)	55		8 - 124	05/10/24 10:20	05/10/24 22:48	1
Phenol-d5 (Surr)	47		8 - 124	05/10/24 10:20	05/14/24 22:53	1
Phenol-d5 (Surr)	84		8 - 124	05/14/24 14:30	05/17/24 23:45	1
p-Terphenyl-d14	121		47 - 130	05/10/24 10:20	05/10/24 22:48	1
p-Terphenyl-d14	116		47 - 130	05/10/24 10:20	05/14/24 22:53	1
p-Terphenyl-d14	137	S1+	47 - 130	05/14/24 14:30	05/17/24 23:45	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	64.1		5.71	0.910	ug/L		05/14/24 14:30	05/18/24 00:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89	I	35 - 130	05/14/24 14:30	05/18/24 00:13	10
2-Fluorobiphenyl	110		43 - 130	05/14/24 14:30	05/18/24 00:13	10
2-Fluorophenol (Surr)	118		19 - 120	05/14/24 14:30	05/18/24 00:13	10
Nitrobenzene-d5 (Surr)	147	S1+	37 - 133	05/14/24 14:30	05/18/24 00:13	10
Phenol-d5 (Surr)	87		8 - 124	05/14/24 14:30	05/18/24 00:13	10
p-Terphenyl-d14	134	S1+	47 - 130	05/14/24 14:30	05/18/24 00:13	10

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 12:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 12:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 12:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 12:07	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 12:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 12:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 12:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 12:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 12:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 12:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 12:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 12:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 12:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 12:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 12:07	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 12:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 12:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 12:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 12:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 12:07	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 12:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 12:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 12:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 12:07	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 12:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 12:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 12:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 12:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 12:07	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 12:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 12:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 12:07	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 12:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 12:07	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 12:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 12:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 12:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 12:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 12:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 12:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 12:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 12:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 12:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 12:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 12:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 12:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 12:07	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 12:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 12:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 12:07	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 12:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 12:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 12:07	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 12:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 12:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 12:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 12:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 12:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 12:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 12:07	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 12:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 12:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 12:07	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 12:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 12:07	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 12:07	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 12:07	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/13/24 12:07	1
Dibromofluoromethane (Surr)	102		75 - 131		05/13/24 12:07	1
Toluene-d8 (Surr)	100		80 - 120		05/13/24 12:07	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		05/14/24 13:11	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 13:11	1
Dibromofluoromethane (Surr)	112		75 - 131		05/14/24 13:11	1
Toluene-d8 (Surr)	101		80 - 120		05/14/24 13:11	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/14/24 23:23	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 23:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 00:42	1
<b>1,4-Dioxane</b>	<b>0.135</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 23:17	1
<b>1,4-Dioxane</b>	<b>0.110</b>	<b>J I</b>	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 00:42	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 23:17	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 00:42	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 23:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 00:42	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 23:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 00:42	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 23:17	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 00:42	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 23:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 00:42	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 23:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 00:42	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 23:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 00:42	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 23:17	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 00:42	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 23:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 00:42	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 23:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 00:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 23:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 00:42	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 23:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 00:42	1
<b>Benzy alcohol</b>	<b>0.952</b>	<b>J B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/10/24 23:17	1
Benzy alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 00:42	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 23:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 00:42	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 23:17	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 00:42	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 23:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 00:42	1
Butyl benzy phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 23:17	1
Butyl benzy phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 00:42	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 23:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 00:42	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 23:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 00:42	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 23:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 00:42	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 23:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 00:42	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 23:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 00:42	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 23:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 00:42	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 23:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 00:42	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 23:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 00:42	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 23:17	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 00:42	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 23:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 00:42	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 23:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 00:42	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 23:17	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 00:42	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 23:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 00:42	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 00:42	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 23:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 00:42	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 23:17	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 00:42	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 23:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 23:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 00:42	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 23:17	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 00:42	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 23:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 00:42	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 23:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 00:42	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 23:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 00:42	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 23:17	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 00:42	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 02:46	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 00:42	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 23:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 00:42	1
<b>Diphenyl ether</b>	<b>1.64</b>		0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 23:17	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 00:42	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 23:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 00:42	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 23:17	1
1-Naphthylamine	<0.149	U * *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 00:42	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 23:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Naphthylamine	<0.288	U * *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 00:42	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 00:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 23:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 00:42	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 23:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 00:42	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 23:17	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 00:42	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 23:17	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 00:42	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 23:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 00:42	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 23:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 00:42	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 23:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 00:42	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 23:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 00:42	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 23:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 00:42	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 23:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 00:42	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 23:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 00:42	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 23:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 00:42	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 23:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 00:42	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 23:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 00:42	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 23:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 00:42	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 23:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 00:42	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 23:17	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 00:42	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 23:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 00:42	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 23:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 00:42	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 23:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 00:42	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 23:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 00:42	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 23:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 00:42	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 23:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:17	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 00:42	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 23:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 00:42	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 23:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 00:42	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 23:17	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 00:42	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:17	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 00:42	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:17	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 00:42	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 23:17	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 00:42	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 23:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 00:42	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:17	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 00:42	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 23:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 00:42	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 23:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 00:42	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 23:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 00:42	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 23:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 00:42	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 23:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 00:42	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 23:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	147	S1+	35 - 130	05/10/24 10:20	05/10/24 23:17	1
2,4,6-Tribromophenol (Surr)	156	S1+	35 - 130	05/10/24 10:20	05/14/24 23:23	1
2,4,6-Tribromophenol (Surr)	131	S1+	35 - 130	05/14/24 14:30	05/18/24 00:42	1
2-Fluorobiphenyl	112		43 - 130	05/10/24 10:20	05/10/24 23:17	1
2-Fluorobiphenyl	129		43 - 130	05/10/24 10:20	05/14/24 23:23	1
2-Fluorobiphenyl	133	S1+	43 - 130	05/14/24 14:30	05/18/24 00:42	1
2-Fluorophenol (Surr)	76		19 - 120	05/10/24 10:20	05/10/24 23:17	1
2-Fluorophenol (Surr)	74		19 - 120	05/10/24 10:20	05/14/24 23:23	1
2-Fluorophenol (Surr)	114		19 - 120	05/14/24 14:30	05/18/24 00:42	1
Nitrobenzene-d5 (Surr)	174	S1+	37 - 133	05/10/24 10:20	05/10/24 23:17	1
Nitrobenzene-d5 (Surr)	189	S1+	37 - 133	05/10/24 10:20	05/14/24 23:23	1
Nitrobenzene-d5 (Surr)	153	S1+	37 - 133	05/14/24 14:30	05/18/24 00:42	1
Phenol-d5 (Surr)	47		8 - 124	05/10/24 10:20	05/10/24 23:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

**Date Collected: 05/07/24 10:15**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	40		8 - 124	05/10/24 10:20	05/14/24 23:23	1
Phenol-d5 (Surr)	79		8 - 124	05/14/24 14:30	05/18/24 00:42	1
p-Terphenyl-d14	106		47 - 130	05/10/24 10:20	05/10/24 23:17	1
p-Terphenyl-d14	108		47 - 130	05/10/24 10:20	05/14/24 23:23	1
p-Terphenyl-d14	104		47 - 130	05/14/24 14:30	05/18/24 00:42	1

**Client Sample ID: TB-01 (050724)**

**Lab Sample ID: 860-73911-6**

**Date Collected: 05/07/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 10:04	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 10:04	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 10:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 10:04	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 10:04	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 10:04	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 10:04	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 10:04	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 10:04	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 10:04	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 10:04	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 10:04	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 10:04	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 10:04	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 10:04	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 10:04	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 10:04	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 10:04	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 10:04	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 10:04	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 10:04	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 10:04	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 10:04	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 10:04	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 10:04	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 10:04	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 10:04	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 10:04	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 10:04	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 10:04	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 10:04	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 10:04	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 10:04	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 10:04	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 10:04	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 10:04	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 10:04	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: TB-01 (050724)**

**Lab Sample ID: 860-73911-6**

**Date Collected: 05/07/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 10:04	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 10:04	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 10:04	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 10:04	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 10:04	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 10:04	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 10:04	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 10:04	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 10:04	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 10:04	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 10:04	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 10:04	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 10:04	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 10:04	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 10:04	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 10:04	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 10:04	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 10:04	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 10:04	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 10:04	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 10:04	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 10:04	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 10:04	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 10:04	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 10:04	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 10:04	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 10:04	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 10:04	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 10:04	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 10:04	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 10:04	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/13/24 10:04	1
Dibromofluoromethane (Surr)	101		75 - 131		05/13/24 10:04	1
Toluene-d8 (Surr)	100		80 - 120		05/13/24 10:04	1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		05/14/24 13:31	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 13:31	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 13:31	1
Toluene-d8 (Surr)	101		80 - 120		05/14/24 13:31	1

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# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-73911-1	MW-79	99	99	102	100
860-73911-1 - RA	MW-79	107	99	112	100
860-73911-2	MW-86	99	98	99	101
860-73911-2 - RA	MW-86	107	99	115	100
860-73911-3	MW-87	99	98	99	103
860-73911-3 - RA	MW-87	109	99	113	100
860-73911-4	MW-39	99	97	100	99
860-73911-4 - RA	MW-39	104	96	112	100
860-73911-5	MW-85	99	98	102	100
860-73911-5 - RA	MW-85	108	100	112	101
860-73911-6	TB-01 (050724)	99	99	101	100
860-73911-6 - RA	TB-01 (050724)	109	99	113	101
860-73918-C-1 MS	Matrix Spike	95	101	99	101
880-43280-A-17 MSD	Matrix Spike Duplicate	100	101	109	100
880-43280-C-17 MS	Matrix Spike	97	100	108	99
LCS 860-159779/3	Lab Control Sample	95	99	100	99
LCS 860-160047/3	Lab Control Sample	100	101	110	101
LCS 860-159779/4	Lab Control Sample Dup	95	99	98	100
LCS 860-160047/4	Lab Control Sample Dup	98	100	109	100
MB 860-159779/9	Method Blank	99	100	99	101
MB 860-160047/10	Method Blank	102	99	113	100

### Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-73911-1	MW-79	148 S1+	113	81	180 S1+	49	124
860-73911-1	MW-79	157 S1+	129	76	194 S1+	41	120
860-73911-1	MW-79	88 I	144 S1+	83 I	170 S1+	77 I	115
860-73911-1	MW-79	148 S1+	137 S1+	146 S1+	163 S1+	112	156 S1+
860-73911-1 - DL	MW-79	119 I	97	131 S1+	148 S1+	99	159 S1+
860-73911-2	MW-86	136 S1+	112	79	169 S1+	49	107
860-73911-2	MW-86	143 S1+	123	73	178 S1+	41	106
860-73911-2	MW-86	114	131 S1+	120	144 S1+	90	135 S1+
860-73911-3	MW-87	151 S1+	108	86	180 S1+	55	102
860-73911-3	MW-87	154 S1+	121	78	188 S1+	44	103
860-73911-3	MW-87	121	125	109	148 S1+	77	131 S1+
860-73911-4	MW-39	151 S1+	110	86	174 S1+	55	121
860-73911-4	MW-39	149 S1+	123	83	184 S1+	47	116
860-73911-4 - DL	MW-39	89 I	110	118	147 S1+	87	134 S1+
860-73911-4	MW-39	132 S1+	120	121 S1+	158 S1+	84	137 S1+
860-73911-5	MW-85	147 S1+	112	76	174 S1+	47	106

# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-73911-5	MW-85	156 S1+	129	74	189 S1+	40	108
860-73911-5	MW-85	131 S1+	133 S1+	114	153 S1+	79	104
LCS 860-159586/2-A	Lab Control Sample	164 S1+	124	83	199 S1+	56	110
LCS 860-159586/4-A	Lab Control Sample	138 S1+	111	80	184 S1+	56	105
LCS 860-160172/2-A	Lab Control Sample	153 S1+	130	93	206 S1+	59	124
LCS 860-160172/4-A	Lab Control Sample	149 S1+	126	83	185 S1+	56	124
LCSD 860-159586/3-A	Lab Control Sample Dup	145 S1+	107	83	182 S1+	53	104
LCSD 860-159586/5-A	Lab Control Sample Dup	148 S1+	117	66	176 S1+	45	113
LCSD 860-160172/3-A	Lab Control Sample Dup	162 S1+	136 S1+	98	211 S1+	61	121
LCSD 860-160172/5-A	Lab Control Sample Dup	163 S1+	147 S1+	84	204 S1+	57	127
MB 860-159586/1-A	Method Blank	154 S1+	122	77	178 S1+	50	111
MB 860-160172/1-A	Method Blank	134 S1+	117	78	171 S1+	33	121

**Surrogate Legend**

- TBP = 2,4,6-Tribromophenol (Surr)
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHd14 = p-Terphenyl-d14

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-159779/9**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 09:23	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 09:23	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 09:23	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 09:23	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 09:23	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 09:23	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:23	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 09:23	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 09:23	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 09:23	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 09:23	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 09:23	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 09:23	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 09:23	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 09:23	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 09:23	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 09:23	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 09:23	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 09:23	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 09:23	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 09:23	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 09:23	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 09:23	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 09:23	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 09:23	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 09:23	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 09:23	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 09:23	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 09:23	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 09:23	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 09:23	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 09:23	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 09:23	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 09:23	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 09:23	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 09:23	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 09:23	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 09:23	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 09:23	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 09:23	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 09:23	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 09:23	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 09:23	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 09:23	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 09:23	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 09:23	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 09:23	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-159779/9**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 09:23	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 09:23	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 09:23	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 09:23	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 09:23	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 09:23	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 09:23	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 09:23	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 09:23	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/13/24 09:23	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 09:23	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 09:23	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 09:23	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 09:23	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 09:23	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 09:23	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 09:23	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 09:23	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 09:23	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 09:23	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 09:23	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/13/24 09:23	1
Dibromofluoromethane (Surr)	99		75 - 131		05/13/24 09:23	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 09:23	1

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.37		ug/L		109	72 - 125
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.59		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.13		ug/L		100	60 - 140
1,1,2-Trichloroethane	50.0	51.82		ug/L		104	75 - 130
1,1-Dichloroethane	50.0	50.69		ug/L		101	71 - 130
1,1-Dichloroethene	50.0	48.83		ug/L		98	50 - 150
1,2,3-Trichloropropane	50.0	55.10		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	50.0	52.93		ug/L		106	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	58.12		ug/L		116	59 - 125
1,2-Dibromoethane	50.0	53.71		ug/L		107	73 - 125
1,2-Dichloroethane	50.0	49.27		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	53.43		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	52.33		ug/L		105	60 - 140
1,3-Butadiene	50.0	50.94		ug/L		102	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	52.69		ug/L		105	70 - 130
2-Butanone (MEK)	250	255.2		ug/L		102	60 - 140
2-Hexanone (MBK)	250	266.4		ug/L		107	60 - 140
2-Propanol	500	448.0		ug/L		90	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.75		ug/L		86	70 - 130
4-Methyl-2-pentanone	250	260.1		ug/L		104	60 - 140
Acetone	250	233.1		ug/L		93	60 - 140
Acetonitrile	500	456.3		ug/L		91	60 - 140
Acrolein	250	200.7		ug/L		80	60 - 140
Acrylonitrile	500	481.4		ug/L		96	60 - 140
alpha-Chlorotoluene	50.0	56.22		ug/L		112	75 - 125
Benzene	50.0	53.62		ug/L		107	75 - 125
Bromodichloromethane	50.0	53.78		ug/L		108	75 - 125
Bromoform	50.0	57.06		ug/L		114	70 - 130
Bromomethane	50.0	46.33		ug/L		93	60 - 140
Carbon disulfide	50.0	53.46		ug/L		107	60 - 140
Carbon tetrachloride	50.0	54.20		ug/L		108	70 - 125
Chlorobenzene	50.0	52.76		ug/L		106	82 - 135
Chlorodibromomethane	50.0	56.05		ug/L		112	73 - 125
Chloroethane	50.0	47.82		ug/L		96	60 - 140
Chloroform	50.0	51.43		ug/L		103	70 - 121
Chloromethane	50.0	50.47		ug/L		101	60 - 140
Chloroprene	50.0	50.33		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	52.40		ug/L		105	75 - 125
cis-1,3-Dichloropropene	50.0	54.21		ug/L		108	74 - 125
Cumene (isopropylbenzene)	50.0	53.42		ug/L		107	75 - 125
Cyclohexane	50.0	48.50		ug/L		97	70 - 130
Dibromomethane	50.0	50.81		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	53.67		ug/L		107	50 - 150
Ethyl methacrylate	50.0	53.45		ug/L		107	70 - 130
Ethylbenzene	50.0	54.03		ug/L		108	75 - 125
Hexane	50.0	51.58		ug/L		103	72 - 125
Iodomethane	50.0	43.48		ug/L		87	75 - 125
Isobutanol	1240	1307		ug/L		105	60 - 140
Methacrylonitrile	500	515.6		ug/L		103	70 - 130
Methyl methacrylate	100	108.6		ug/L		109	70 - 130
Methyl tert-butyl ether	50.0	49.06		ug/L		98	65 - 135
Methylene Chloride	50.0	48.78		ug/L		98	71 - 125
Propionitrile	500	523.1		ug/L		105	70 - 130
Propylbenzene	50.0	52.48		ug/L		105	75 - 125
Styrene	50.0	54.00		ug/L		108	75 - 125
Tetrachloroethene	50.0	55.96		ug/L		112	71 - 125
Tetrahydrofuran	100	<1.83	U *-	ug/L		0	75 - 125
Toluene	50.0	53.17		ug/L		106	75 - 130
trans-1,2-Dichloroethene	50.0	52.76		ug/L		106	75 - 125
trans-1,3-Dichloropropene	50.0	54.66		ug/L		109	66 - 125
trans-1,4-Dichloro-2-butene	50.0	56.10		ug/L		112	70 - 130
Trichloroethene	50.0	53.08		ug/L		106	75 - 135
Trichlorofluoromethane	50.0	52.26		ug/L		105	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	250.2		ug/L		100	60 - 140
Vinyl chloride	50.0	49.78		ug/L		100	60 - 140
Xylenes, Total	100	106.4		ug/L		106	75 - 125
m,p-Xylenes	0.0500	0.05329		mg/L		107	75 - 125
o-Xylene	0.0500	0.05313		mg/L		106	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: LCSD 860-159779/4**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	57.03		ug/L		114	72 - 125	5	25
1,1,1-Trichloroethane	50.0	56.72		ug/L		113	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	55.40		ug/L		111	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.61		ug/L		107	60 - 140	7	25
1,1,2-Trichloroethane	50.0	54.29		ug/L		109	75 - 130	5	25
1,1-Dichloroethane	50.0	52.65		ug/L		105	71 - 130	4	25
1,1-Dichloroethene	50.0	50.70		ug/L		101	50 - 150	4	25
1,2,3-Trichloropropane	50.0	59.06		ug/L		118	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	57.38		ug/L		115	75 - 125	8	25
1,2-Dibromo-3-Chloropropane	50.0	61.69		ug/L		123	59 - 125	6	25
1,2-Dibromoethane	50.0	55.66		ug/L		111	73 - 125	4	25
1,2-Dichloroethane	50.0	50.14		ug/L		100	72 - 130	2	25
1,2-Dichloropropane	50.0	53.85		ug/L		108	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	56.40		ug/L		113	60 - 140	7	25
1,3-Butadiene	50.0	53.51		ug/L		107	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	56.76		ug/L		114	70 - 130	7	25
2-Butanone (MEK)	250	271.0		ug/L		108	60 - 140	6	25
2-Hexanone (MBK)	250	273.3		ug/L		109	60 - 140	3	25
2-Propanol	500	486.1		ug/L		97	70 - 120	8	25
3-Chloropropene (Allyl Chloride)	50.0	48.58		ug/L		97	70 - 130	13	25
4-Methyl-2-pentanone	250	262.4		ug/L		105	60 - 140	1	25
Acetone	250	244.8		ug/L		98	60 - 140	5	25
Acetonitrile	500	473.9		ug/L		95	60 - 140	4	25
Acrolein	250	205.8		ug/L		82	60 - 140	3	25
Acrylonitrile	500	489.2		ug/L		98	60 - 140	2	25
alpha-Chlorotoluene	50.0	58.93		ug/L		118	75 - 125	5	25
Benzene	50.0	54.89		ug/L		110	75 - 125	2	25
Bromodichloromethane	50.0	54.09		ug/L		108	75 - 125	1	25
Bromoform	50.0	58.40		ug/L		117	70 - 130	2	25
Bromomethane	50.0	47.80		ug/L		96	60 - 140	3	25
Carbon disulfide	50.0	55.34		ug/L		111	60 - 140	3	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-159779/4**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	59.76		ug/L		120	70 - 125	10	25
Chlorobenzene	50.0	55.03		ug/L		110	82 - 135	4	25
Chlorodibromomethane	50.0	58.21		ug/L		116	73 - 125	4	25
Chloroethane	50.0	47.65		ug/L		95	60 - 140	0	25
Chloroform	50.0	52.62		ug/L		105	70 - 121	2	25
Chloromethane	50.0	51.42		ug/L		103	60 - 140	2	25
Chloroprene	50.0	50.87		ug/L		102	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	53.58		ug/L		107	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	55.39		ug/L		111	74 - 125	2	25
Cumene (isopropylbenzene)	50.0	57.03		ug/L		114	75 - 125	7	25
Cyclohexane	50.0	51.44		ug/L		103	70 - 130	6	25
Dibromomethane	50.0	53.32		ug/L		107	69 - 127	5	25
Dichlorodifluoromethane	50.0	59.33		ug/L		119	50 - 150	10	25
Ethyl methacrylate	50.0	56.46		ug/L		113	70 - 130	5	25
Ethylbenzene	50.0	56.83		ug/L		114	75 - 125	5	25
Hexane	50.0	55.40		ug/L		111	72 - 125	7	25
Iodomethane	50.0	47.27		ug/L		95	75 - 125	8	25
Isobutanol	1240	1430		ug/L		115	60 - 140	9	25
Methacrylonitrile	500	522.5		ug/L		105	70 - 130	1	25
Methyl methacrylate	100	108.5		ug/L		109	70 - 130	0	25
Methyl tert-butyl ether	50.0	50.89		ug/L		102	65 - 135	4	25
Methylene Chloride	50.0	48.54		ug/L		97	71 - 125	1	25
Propionitrile	500	554.1		ug/L		111	70 - 130	6	25
Propylbenzene	50.0	57.46		ug/L		115	75 - 125	9	25
Styrene	50.0	56.10		ug/L		112	75 - 125	4	25
Tetrachloroethene	50.0	59.90		ug/L		120	71 - 125	7	25
Tetrahydrofuran	100	<1.83	U *	ug/L		0	75 - 125	NC	25
Toluene	50.0	55.73		ug/L		111	75 - 130	5	25
trans-1,2-Dichloroethene	50.0	54.29		ug/L		109	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	57.36		ug/L		115	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	57.60		ug/L		115	70 - 130	3	25
Trichloroethene	50.0	55.58		ug/L		111	75 - 135	5	25
Trichlorofluoromethane	50.0	55.95		ug/L		112	60 - 140	7	25
Vinyl acetate	250	244.6		ug/L		98	60 - 140	2	25
Vinyl chloride	50.0	53.21		ug/L		106	60 - 140	7	25
Xylenes, Total	100	112.3		ug/L		112	75 - 125	5	25
m,p-Xylenes	0.0500	0.05641		mg/L		113	75 - 125	6	25
o-Xylene	0.0500	0.05586		mg/L		112	75 - 125	5	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	100		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73918-C-1 MS**

**Matrix: Water**

**Analysis Batch: 159779**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	55.13		ug/L		110	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	50.05		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	52.40		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	34.40		ug/L		69	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.72		ug/L		103	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.50		ug/L		93	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	37.52		ug/L		75	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	54.78		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	54.49		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	57.32		ug/L		115	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	53.26		ug/L		107	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.83		ug/L		94	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	51.34		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	53.41		ug/L		107	70 - 125
1,3-Butadiene	<0.568	U	50.0	44.01		ug/L		88	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	42.09		ug/L		84	70 - 130
2-Butanone (MEK)	<8.28	U	250	253.5		ug/L		101	60 - 140
2-Hexanone (MBK)	<7.45	U	250	258.0		ug/L		103	60 - 140
2-Propanol	<5.23	U	500	476.3		ug/L		95	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	37.36		ug/L		75	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	249.4		ug/L		100	60 - 140
Acetone	<3.07	U	250	233.1		ug/L		93	60 - 140
Acetonitrile	<14.6	U	500	425.8		ug/L		85	60 - 140
Acrolein	<11.1	U	250	150.8		ug/L		60	50 - 150
Acrylonitrile	<14.3	U	500	450.6		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	55.17		ug/L		110	70 - 130
Benzene	<0.460	U	50.0	51.06		ug/L		102	66 - 142
Bromodichloromethane	<0.552	U	50.0	52.47		ug/L		105	75 - 125
Bromoform	<0.633	U	50.0	56.17		ug/L		112	75 - 125
Bromomethane	<1.42	U	50.0	41.98		ug/L		84	60 - 140
Carbon disulfide	<1.65	U	50.0	36.96		ug/L		74	60 - 140
Carbon tetrachloride	<0.896	U	50.0	50.60		ug/L		101	62 - 125
Chlorobenzene	<0.455	U	50.0	52.67		ug/L		105	60 - 133
Chlorodibromomethane	<0.547	U	50.0	55.86		ug/L		112	73 - 125
Chloroethane	<1.98	U	50.0	42.88		ug/L		86	60 - 140
Chloroform	<0.464	U	50.0	48.63		ug/L		97	70 - 130
Chloromethane	<2.04	U	50.0	44.07		ug/L		88	60 - 140
Chloroprene	<0.598	U	50.0	44.51		ug/L		89	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	49.93		ug/L		100	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	54.30		ug/L		109	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	54.56		ug/L		109	75 - 125
Cyclohexane	<1.29	U	50.0	38.14		ug/L		76	70 - 130
Dibromomethane	<0.357	U	50.0	50.63		ug/L		101	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	43.16		ug/L		86	70 - 130
Ethyl methacrylate	<1.12	U	50.0	53.74		ug/L		107	70 - 130
Ethylbenzene	<0.385	U	50.0	54.37		ug/L		109	75 - 125
Hexane	<0.517	U F1	50.0	32.68	F1	ug/L		65	72 - 125
Iodomethane	<6.52	U F1	50.0	36.91	F1	ug/L		74	75 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73918-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1390		ug/L		112	60 - 140
Methacrylonitrile	<2.72	U	500	490.7		ug/L		98	70 - 130
Methyl methacrylate	<2.25	U	100	103.6		ug/L		104	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.68		ug/L		93	65 - 135
Methylene Chloride	<1.73	U	50.0	41.57		ug/L		83	75 - 125
Propionitrile	<3.34	U	500	517.2		ug/L		103	70 - 130
Propylbenzene	<0.429	U	50.0	53.86		ug/L		108	75 - 125
Styrene	<0.619	U	50.0	54.09		ug/L		108	75 - 125
Tetrachloroethene	<0.655	U	50.0	55.55		ug/L		111	71 - 125
Tetrahydrofuran	<1.83	U * - F1	100	<1.83	U F1	ug/L		0	75 - 125
Toluene	<0.475	U	50.0	52.57		ug/L		105	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	45.75		ug/L		92	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	54.24		ug/L		108	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	53.41		ug/L		107	70 - 130
Trichloroethene	<1.50	U	50.0	51.75		ug/L		104	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	45.74		ug/L		91	60 - 140
Vinyl acetate	<2.14	U	250	233.6		ug/L		93	60 - 140
Vinyl chloride	<0.428	U	50.0	44.82		ug/L		90	60 - 140
Xylenes, Total	<1.24	U	100	107.7		ug/L		108	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05378		mg/L		108	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05391		mg/L		108	75 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 11:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 11:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 11:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 11:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 11:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 11:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 11:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 11:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 11:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 11:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 11:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 11:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 11:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 11:08	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 11:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 11:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 11:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 11:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 11:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 11:08	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 11:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 11:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 11:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 11:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 11:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 11:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 11:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 11:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 11:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 11:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 11:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 11:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 11:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 11:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 11:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 11:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 11:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 11:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 11:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 11:08	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 11:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 11:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 11:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 11:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 11:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 11:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 11:08	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 11:08	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 11:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 11:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 11:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 11:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 11:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 11:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 11:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 11:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 11:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 11:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 11:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 11:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 11:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 11:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 11:08	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 11:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 11:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 11:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 11:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 11:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 11:08	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 11:08	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 11:08	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 11:08	1

**Lab Sample ID: LCS 860-160047/3**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	50.45		ug/L		101	72 - 125
1,1,1-Trichloroethane	50.0	60.14		ug/L		120	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.43		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.04		ug/L		116	60 - 140
1,1,2-Trichloroethane	50.0	51.18		ug/L		102	75 - 130
1,1-Dichloroethane	50.0	55.25		ug/L		111	71 - 130
1,1-Dichloroethene	50.0	49.54		ug/L		99	50 - 150
1,2,3-Trichloropropane	50.0	49.86		ug/L		100	75 - 125
1,2,4-Trimethylbenzene	50.0	51.19		ug/L		102	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	36.73		ug/L		73	59 - 125
1,2-Dibromoethane	50.0	50.27		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	49.52		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	52.60		ug/L		105	74 - 125
1,3,5-Trimethylbenzene	50.0	52.93		ug/L		106	60 - 140
1,3-Butadiene	50.0	58.55		ug/L		117	60 - 150
2,2,4-Trimethylpentane	50.0	52.67		ug/L		105	70 - 130
2-Butanone (MEK)	250	262.7		ug/L		105	60 - 140
2-Hexanone (MBK)	250	223.8		ug/L		90	60 - 140
2-Propanol	500	441.9		ug/L		88	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	53.67		ug/L		107	70 - 130
4-Methyl-2-pentanone	250	229.5		ug/L		92	60 - 140
Acetone	250	249.7		ug/L		100	60 - 140
Acetonitrile	500	500.8		ug/L		100	60 - 140
Acrylonitrile	500	511.9		ug/L		102	60 - 140
alpha-Chlorotoluene	50.0	43.54		ug/L		87	75 - 125
Benzene	50.0	51.82		ug/L		104	75 - 125
Bromodichloromethane	50.0	51.10		ug/L		102	75 - 125
Bromoform	50.0	45.65		ug/L		91	70 - 130
Bromomethane	50.0	62.37		ug/L		125	60 - 140
Carbon disulfide	50.0	53.50		ug/L		107	60 - 140
Carbon tetrachloride	50.0	57.46		ug/L		115	70 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160047/3**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	52.47		ug/L		105	82 - 135
Chlorodibromomethane	50.0	49.03		ug/L		98	73 - 125
Chloroethane	50.0	49.99		ug/L		100	60 - 140
Chloroform	50.0	56.76		ug/L		114	70 - 121
Chloromethane	50.0	54.37		ug/L		109	60 - 140
Chloroprene	50.0	57.25		ug/L		114	70 - 130
cis-1,2-Dichloroethene	50.0	55.48		ug/L		111	75 - 125
cis-1,3-Dichloropropene	50.0	50.95		ug/L		102	74 - 125
Cumene (isopropylbenzene)	50.0	52.18		ug/L		104	75 - 125
Cyclohexane	50.0	58.82		ug/L		118	70 - 130
Dibromomethane	50.0	52.16		ug/L		104	69 - 127
Ethyl methacrylate	50.0	45.89		ug/L		92	70 - 130
Ethylbenzene	50.0	52.79		ug/L		106	75 - 125
Hexane	50.0	52.36		ug/L		105	72 - 125
Iodomethane	50.0	55.68		ug/L		111	75 - 125
Isobutanol	1240	1041		ug/L		84	60 - 140
Methacrylonitrile	500	520.6		ug/L		104	70 - 130
Methyl methacrylate	100	94.78		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	50.40		ug/L		101	65 - 135
Methylene Chloride	50.0	52.66		ug/L		105	71 - 125
Propionitrile	500	516.3		ug/L		103	70 - 130
Propylbenzene	50.0	55.19		ug/L		110	75 - 125
Styrene	50.0	51.31		ug/L		103	75 - 125
Tetrachloroethene	50.0	54.22		ug/L		108	71 - 125
Tetrahydrofuran	100	94.08		ug/L		94	75 - 125
Toluene	50.0	52.30		ug/L		105	75 - 130
trans-1,2-Dichloroethene	50.0	55.32		ug/L		111	75 - 125
trans-1,3-Dichloropropene	50.0	48.80		ug/L		98	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.13		ug/L		94	70 - 130
Trichloroethene	50.0	53.29		ug/L		107	75 - 135
Trichlorofluoromethane	50.0	60.28		ug/L		121	60 - 140
Vinyl acetate	250	268.7		ug/L		107	60 - 140
Vinyl chloride	50.0	56.82		ug/L		114	60 - 140
Xylenes, Total	100	103.4		ug/L		103	75 - 125
m,p-Xylenes	0.0500	0.05192		mg/L		104	75 - 125
o-Xylene	0.0500	0.05143		mg/L		103	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
Toluene-d8 (Surr)	101		80 - 120



# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160047/4**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	47.70		ug/L		95	72 - 125	6	25
1,1,1-Trichloroethane	50.0	55.72		ug/L		111	70 - 130	8	25
1,1,2,2-Tetrachloroethane	50.0	46.58		ug/L		93	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.30		ug/L		103	60 - 140	12	25
1,1,2-Trichloroethane	50.0	48.60		ug/L		97	75 - 130	5	25
1,1-Dichloroethane	50.0	51.89		ug/L		104	71 - 130	6	25
1,1-Dichloroethene	50.0	49.12		ug/L		98	50 - 150	1	25
1,2,3-Trichloropropane	50.0	47.52		ug/L		95	75 - 125	5	25
1,2,4-Trimethylbenzene	50.0	47.66		ug/L		95	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	50.0	34.81		ug/L		70	59 - 125	5	25
1,2-Dibromoethane	50.0	48.36		ug/L		97	73 - 125	4	25
1,2-Dichloroethane	50.0	47.25		ug/L		94	72 - 130	5	25
1,2-Dichloropropane	50.0	49.45		ug/L		99	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	49.17		ug/L		98	60 - 140	7	25
1,3-Butadiene	50.0	51.73		ug/L		103	60 - 150	12	25
2,2,4-Trimethylpentane	50.0	47.55		ug/L		95	70 - 130	10	25
2-Butanone (MEK)	250	250.5		ug/L		100	60 - 140	5	25
2-Hexanone (MBK)	250	212.5		ug/L		85	60 - 140	5	25
2-Propanol	500	420.1		ug/L		84	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	50.0	49.83		ug/L		100	70 - 130	7	25
4-Methyl-2-pentanone	250	220.0		ug/L		88	60 - 140	4	25
Acetone	250	242.6		ug/L		97	60 - 140	3	25
Acetonitrile	500	483.9		ug/L		97	60 - 140	3	25
Acrylonitrile	500	494.1		ug/L		99	60 - 140	4	25
alpha-Chlorotoluene	50.0	40.22		ug/L		80	75 - 125	8	25
Benzene	50.0	49.19		ug/L		98	75 - 125	5	25
Bromodichloromethane	50.0	48.60		ug/L		97	75 - 125	5	25
Bromoform	50.0	43.74		ug/L		87	70 - 130	4	25
Bromomethane	50.0	56.59		ug/L		113	60 - 140	10	25
Carbon disulfide	50.0	48.84		ug/L		98	60 - 140	9	25
Carbon tetrachloride	50.0	54.09		ug/L		108	70 - 125	6	25
Chlorobenzene	50.0	49.50		ug/L		99	82 - 135	6	25
Chlorodibromomethane	50.0	47.29		ug/L		95	73 - 125	4	25
Chloroethane	50.0	41.60		ug/L		83	60 - 140	18	25
Chloroform	50.0	53.37		ug/L		107	70 - 121	6	25
Chloromethane	50.0	49.29		ug/L		99	60 - 140	10	25
Chloroprene	50.0	52.33		ug/L		105	70 - 130	9	25
cis-1,2-Dichloroethene	50.0	51.62		ug/L		103	75 - 125	7	25
cis-1,3-Dichloropropene	50.0	48.55		ug/L		97	74 - 125	5	25
Cumene (isopropylbenzene)	50.0	48.45		ug/L		97	75 - 125	7	25
Cyclohexane	50.0	56.93		ug/L		114	70 - 130	3	25
Dibromomethane	50.0	50.24		ug/L		100	69 - 127	4	25
Dichlorodifluoromethane	50.0	72.79		ug/L		146	50 - 150	15	25
Ethyl methacrylate	50.0	44.88		ug/L		90	70 - 130	2	25
Ethylbenzene	50.0	49.44		ug/L		99	75 - 125	7	25
Hexane	50.0	47.46		ug/L		95	72 - 125	10	25
Iodomethane	50.0	52.26		ug/L		105	75 - 125	6	25
Isobutanol	1240	993.4		ug/L		80	60 - 140	5	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160047/4**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methacrylonitrile	500	502.2		ug/L		100	70 - 130	4	25
Methyl methacrylate	100	91.50		ug/L		91	70 - 130	4	25
Methyl tert-butyl ether	50.0	48.99		ug/L		98	65 - 135	3	25
Methylene Chloride	50.0	50.75		ug/L		102	71 - 125	4	25
Propionitrile	500	501.6		ug/L		100	70 - 130	3	25
Propylbenzene	50.0	51.04		ug/L		102	75 - 125	8	25
Styrene	50.0	48.28		ug/L		97	75 - 125	6	25
Tetrachloroethene	50.0	50.26		ug/L		101	71 - 125	8	25
Tetrahydrofuran	100	89.60		ug/L		90	75 - 125	5	25
Toluene	50.0	49.12		ug/L		98	75 - 130	6	25
trans-1,2-Dichloroethene	50.0	51.51		ug/L		103	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	46.58		ug/L		93	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	44.26		ug/L		89	70 - 130	6	25
Trichloroethene	50.0	49.44		ug/L		99	75 - 135	8	25
Trichlorofluoromethane	50.0	53.81		ug/L		108	60 - 140	11	25
Vinyl acetate	250	255.2		ug/L		102	60 - 140	5	25
Vinyl chloride	50.0	51.32		ug/L		103	60 - 140	10	25
Xylenes, Total	100	97.39		ug/L		97	75 - 125	6	25
m,p-Xylenes	0.0500	0.04879		mg/L		98	75 - 125	6	25
o-Xylene	0.0500	0.04860		mg/L		97	75 - 125	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	109		75 - 131
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: 880-43280-A-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U F1	50.0	37.32		ug/L		75	72 - 125	6	25
1,1,1-Trichloroethane	<0.585	U	50.0	41.30		ug/L		83	75 - 125	5	25
1,1,2,2-Tetrachloroethane	<0.470	U F1	50.0	37.72		ug/L		75	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	32.37		ug/L		65	60 - 140	5	25
1,1,2-Trichloroethane	<0.411	U F1	50.0	38.64		ug/L		77	75 - 127	5	25
1,1-Dichloroethane	<0.635	U	50.0	40.24		ug/L		80	72 - 125	5	25
1,1-Dichloroethene	<0.738	U	50.0	31.79		ug/L		64	59 - 172	3	25
1,2,3-Trichloropropane	<0.470	U F1	50.0	38.53		ug/L		77	75 - 125	8	25
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	36.40	F1	ug/L		73	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	<0.671	U F1	50.0	26.48	F1	ug/L		53	59 - 125	4	25
1,2-Dibromoethane	<0.999	U F1	50.0	38.37		ug/L		77	73 - 125	6	25
1,2-Dichloroethane	<0.372	U	50.0	37.57		ug/L		75	68 - 127	7	25
1,2-Dichloropropane	<0.556	U F1	50.0	39.25		ug/L		79	74 - 125	7	25
1,3,5-Trimethylbenzene	<0.411	U F1	50.0	36.27		ug/L		73	70 - 125	6	25
1,3-Butadiene	<0.568	U F1	50.0	<0.568	U F1	ug/L		0	70 - 150	NC	25
2,2,4-Trimethylpentane	<0.500	U F1	50.0	29.49	F1	ug/L		59	70 - 130	6	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-A-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	<8.28	U	250	197.4		ug/L		79	60 - 140	6	25
2-Hexanone (MBK)	<7.45	U	250	165.9		ug/L		66	60 - 140	7	25
2-Propanol	<5.23	U F1	500	340.7	F1	ug/L		68	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	<0.597	U F1 F2	50.0	8.058	F1 F2	ug/L		16	70 - 130	29	25
4-Methyl-2-pentanone	<7.49	U	250	172.2		ug/L		69	60 - 140	6	25
Acetone	<3.07	U	250	184.2		ug/L		74	60 - 140	6	25
Acetonitrile	<14.6	U	500	319.9		ug/L		64	60 - 140	3	25
Acrolein	<11.1	U *- F1	250	115.7	F1	ug/L		46	50 - 150	5	25
Acrylonitrile	<14.3	U	500	382.6		ug/L		77	50 - 150	4	25
alpha-Chlorotoluene	<2.26	U F1	50.0	32.31	F1	ug/L		65	70 - 130	8	25
Benzene	<0.460	U	50.0	37.59		ug/L		75	66 - 142	6	25
Bromodichloromethane	<0.552	U F1	50.0	38.05		ug/L		76	75 - 125	5	25
Bromoform	<0.633	U F1	50.0	34.10	F1	ug/L		68	75 - 125	6	25
Bromomethane	<1.42	U	50.0	56.96		ug/L		114	60 - 140	2	25
Carbon disulfide	<1.65	U	50.0	33.34		ug/L		67	60 - 140	3	25
Carbon tetrachloride	<0.896	U	50.0	38.44		ug/L		77	62 - 125	8	25
Chlorobenzene	<0.455	U	50.0	38.68		ug/L		77	60 - 133	6	25
Chlorodibromomethane	<0.547	U F1	50.0	37.37		ug/L		75	73 - 125	7	25
Chloroethane	<1.98	U	50.0	44.98		ug/L		90	60 - 140	3	25
Chloroform	<0.464	U	50.0	41.56		ug/L		83	70 - 130	5	25
Chloromethane	<2.04	U	50.0	44.15		ug/L		88	60 - 140	0	25
Chloroprene	<0.598	U F1 F2	50.0	7.955	F1 F2	ug/L		16	70 - 130	37	25
cis-1,2-Dichloroethene	<0.457	U	50.0	40.12		ug/L		80	75 - 125	5	25
cis-1,3-Dichloropropene	<1.07	U F1	50.0	38.21		ug/L		76	74 - 125	5	25
Cumene (isopropylbenzene)	<0.592	U F1	50.0	35.10	F1	ug/L		70	75 - 125	6	25
Cyclohexane	<1.29	U F1	50.0	35.88		ug/L		72	70 - 130	6	25
Dibromomethane	<0.357	U	50.0	39.55		ug/L		79	69 - 127	5	25
Dichlorodifluoromethane	<0.785	U *+	50.0	41.81		ug/L		84	70 - 130	4	25
Ethyl methacrylate	<1.12	U F1	50.0	35.18		ug/L		70	70 - 130	7	25
Ethylbenzene	<0.385	U F1	50.0	37.07	F1	ug/L		74	75 - 125	5	25
Hexane	<0.517	U F1	50.0	27.68	F1	ug/L		55	72 - 125	3	25
Iodomethane	<6.52	U	50.0	40.77		ug/L		82	75 - 125	3	25
Isobutanol	<17.1	U F1	1250	788.6		ug/L		63	60 - 140	8	25
Methacrylonitrile	<2.72	U	500	394.9		ug/L		79	70 - 130	5	25
Methyl methacrylate	<2.25	U F1	100	71.93		ug/L		72	70 - 130	6	25
Methyl tert-butyl ether	<1.39	U	50.0	38.64		ug/L		77	65 - 135	5	25
Methylene Chloride	<1.73	U F1	50.0	38.47		ug/L		77	75 - 125	5	25
Propionitrile	<3.34	U	500	395.1		ug/L		79	70 - 130	7	25
Propylbenzene	<0.429	U F1	50.0	37.31		ug/L		75	75 - 125	6	25
Styrene	<0.619	U F1	50.0	1.055	F1	ug/L		2	75 - 125	1	25
Tetrachloroethene	<0.655	U F1	50.0	36.49		ug/L		73	71 - 125	6	25
Tetrahydrofuran	<1.83	U F1	100	70.11	F1	ug/L		70	75 - 125	5	25
Toluene	<0.475	U	50.0	37.66		ug/L		75	59 - 139	6	25
trans-1,2-Dichloroethene	<0.368	U F1	50.0	37.71		ug/L		75	75 - 125	4	25
trans-1,3-Dichloropropene	<1.27	U	50.0	36.55		ug/L		73	66 - 125	6	25
trans-1,4-Dichloro-2-butene	<1.35	U F1	50.0	35.33		ug/L		71	70 - 130	6	25
Trichloroethene	<1.50	U	50.0	37.47		ug/L		75	62 - 137	5	25
Trichlorofluoromethane	<0.560	U	50.0	48.68		ug/L		97	60 - 140	1	25
Vinyl acetate	<2.14	U F1	250	<2.14	U F1	ug/L		0	60 - 140	NC	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-A-17 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	<0.428	U	50.0	45.41		ug/L		91	60 - 140	2	25
Xylenes, Total	<1.24	U F1	100	73.09	F1	ug/L		73	75 - 125	6	25
m,p-Xylenes	<0.00124	U F1	0.0500	0.03658	F1	mg/L		73	75 - 125	6	25
o-Xylene	<0.000502	U F1	0.0500	0.03651	F1	mg/L		73	75 - 125	6	25
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	100		63 - 144								
4-Bromofluorobenzene (Surr)	101		74 - 124								
Dibromofluoromethane (Surr)	109		75 - 131								
Toluene-d8 (Surr)	100		80 - 120								

**Lab Sample ID: 880-43280-C-17 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U F1	50.0	35.03	F1	ug/L		70	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	39.41		ug/L		79	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U F1	50.0	35.32	F1	ug/L		71	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	30.80		ug/L		62	60 - 140
1,1,2-Trichloroethane	<0.411	U F1	50.0	36.77	F1	ug/L		74	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	38.24		ug/L		76	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	30.90		ug/L		62	59 - 172
1,2,3-Trichloropropane	<0.470	U F1	50.0	35.65	F1	ug/L		71	75 - 125
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	34.00	F1	ug/L		68	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U F1	50.0	25.37	F1	ug/L		51	59 - 125
1,2-Dibromoethane	<0.999	U F1	50.0	36.12	F1	ug/L		72	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	35.05		ug/L		70	68 - 127
1,2-Dichloropropane	<0.556	U F1	50.0	36.49	F1	ug/L		73	74 - 125
1,3,5-Trimethylbenzene	<0.411	U F1	50.0	34.05	F1	ug/L		68	70 - 125
1,3-Butadiene	<0.568	U F1	50.0	<0.568	U F1	ug/L		0	70 - 150
2,2,4-Trimethylpentane	<0.500	U F1	50.0	27.82	F1	ug/L		56	70 - 130
2-Butanone (MEK)	<8.28	U	250	185.9		ug/L		74	60 - 140
2-Hexanone (MBK)	<7.45	U	250	154.7		ug/L		62	60 - 140
2-Propanol	<5.23	U F1	500	331.0	F1	ug/L		66	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U F1 F2	50.0	10.75	F1	ug/L		21	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	162.3		ug/L		65	60 - 140
Acetone	<3.07	U	250	173.6		ug/L		69	60 - 140
Acetonitrile	<14.6	U	500	309.1		ug/L		62	60 - 140
Acrolein	<11.1	U *- F1	250	110.0	F1	ug/L		44	50 - 150
Acrylonitrile	<14.3	U	500	365.9		ug/L		73	50 - 150
alpha-Chlorotoluene	<2.26	U F1	50.0	29.95	F1	ug/L		60	70 - 130
Benzene	<0.460	U	50.0	35.48		ug/L		71	66 - 142
Bromodichloromethane	<0.552	U F1	50.0	36.33	F1	ug/L		73	75 - 125
Bromoform	<0.633	U F1	50.0	32.17	F1	ug/L		64	75 - 125
Bromomethane	<1.42	U	50.0	57.89		ug/L		116	60 - 140
Carbon disulfide	<1.65	U	50.0	32.20		ug/L		64	60 - 140
Carbon tetrachloride	<0.896	U	50.0	35.65		ug/L		71	62 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-C-17 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobenzene	<0.455	U	50.0	36.56		ug/L		73	60 - 133
Chlorodibromomethane	<0.547	U F1	50.0	34.96	F1	ug/L		70	73 - 125
Chloroethane	<1.98	U	50.0	43.81		ug/L		88	60 - 140
Chloroform	<0.464	U	50.0	39.46		ug/L		79	70 - 130
Chloromethane	<2.04	U	50.0	44.05		ug/L		88	60 - 140
Chloroprene	<0.598	U F1 F2	50.0	11.61	F1	ug/L		23	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	38.24		ug/L		76	75 - 125
cis-1,3-Dichloropropene	<1.07	U F1	50.0	36.21	F1	ug/L		72	74 - 125
Cumene (isopropylbenzene)	<0.592	U F1	50.0	33.13	F1	ug/L		66	75 - 125
Cyclohexane	<1.29	U F1	50.0	33.82	F1	ug/L		68	70 - 130
Dibromomethane	<0.357	U	50.0	37.59		ug/L		75	69 - 127
Dichlorodifluoromethane	<0.785	U *+	50.0	43.43		ug/L		87	70 - 130
Ethyl methacrylate	<1.12	U F1	50.0	32.95	F1	ug/L		66	70 - 130
Ethylbenzene	<0.385	U F1	50.0	35.09	F1	ug/L		70	75 - 125
Hexane	<0.517	U F1	50.0	26.98	F1	ug/L		54	72 - 125
Iodomethane	<6.52	U	50.0	39.73		ug/L		79	75 - 125
Isobutanol	<17.1	U F1	1240	730.9	F1	ug/L		59	60 - 140
Methacrylonitrile	<2.72	U	500	373.9		ug/L		75	70 - 130
Methyl methacrylate	<2.25	U F1	100	67.99	F1	ug/L		68	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	36.77		ug/L		74	65 - 135
Methylene Chloride	<1.73	U F1	50.0	36.74	F1	ug/L		73	75 - 125
Propionitrile	<3.34	U	500	369.3		ug/L		74	70 - 130
Propylbenzene	<0.429	U F1	50.0	35.10	F1	ug/L		70	75 - 125
Styrene	<0.619	U F1	50.0	1.047	F1	ug/L		2	75 - 125
Tetrachloroethene	<0.655	U F1	50.0	34.34	F1	ug/L		69	71 - 125
Tetrahydrofuran	<1.83	U F1	100	66.94	F1	ug/L		67	75 - 125
Toluene	<0.475	U	50.0	35.59		ug/L		71	59 - 139
trans-1,2-Dichloroethene	<0.368	U F1	50.0	36.31	F1	ug/L		73	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	34.45		ug/L		69	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U F1	50.0	33.20	F1	ug/L		66	70 - 130
Trichloroethene	<1.50	U	50.0	35.49		ug/L		71	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	49.30		ug/L		99	60 - 140
Vinyl acetate	<2.14	U F1	250	<2.14	U F1	ug/L		0	60 - 140
Vinyl chloride	<0.428	U	50.0	46.21		ug/L		92	60 - 140
Xylenes, Total	<1.24	U F1	100	69.08	F1	ug/L		69	75 - 125
m,p-Xylenes	<0.00124	U F1	0.0500	0.03458	F1	mg/L		69	75 - 125
o-Xylene	<0.000502	U F1	0.0500	0.03450	F1	mg/L		69	75 - 125
		<b>MS MS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	97		63 - 144						
4-Bromofluorobenzene (Surr)	100		74 - 124						
Dibromofluoromethane (Surr)	108		75 - 131						
Toluene-d8 (Surr)	99		80 - 120						

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 18:51	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 18:51	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 18:51	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzyl alcohol	1.398		1.14	0.600	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 18:51	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 18:51	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 18:51	1

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 18:51	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 18:51	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 18:51	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 18:51	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 18:51	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 18:51	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 18:51	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 18:51	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 18:51	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 18:51	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 18:51	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 18:51	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 18:51	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 18:51	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/10/24 10:20	05/10/24 18:51	1
2-Fluorobiphenyl	122		43 - 130	05/10/24 10:20	05/10/24 18:51	1
2-Fluorophenol (Surr)	77		19 - 120	05/10/24 10:20	05/10/24 18:51	1
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133	05/10/24 10:20	05/10/24 18:51	1
Phenol-d5 (Surr)	50		8 - 124	05/10/24 10:20	05/10/24 18:51	1
p-Terphenyl-d14	111		47 - 130	05/10/24 10:20	05/10/24 18:51	1

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/13/24 23:29	1

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.86	1.665		ug/L		58	32 - 130
1,3-Dichlorobenzene	2.86	1.534		ug/L		54	26 - 130
1,4-Dichlorobenzene	2.86	1.596		ug/L		56	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.594	J	ug/L		91	10 - 173
2,4,5-Trichlorophenol	2.86	3.719		ug/L		130	35 - 130
2,4,6-Trichlorophenol	2.86	3.351		ug/L		117	52 - 129
2,4-Dichlorophenol	2.86	2.943		ug/L		103	53 - 122
2,4-Dimethylphenol	2.86	2.510		ug/L		88	42 - 120
1,4-Dioxane	2.86	1.133		ug/L		40	27 - 130
2,4-Dinitrophenol	2.86	2.576	J	ug/L		90	12 - 173
2,4-Dinitrotoluene	2.86	4.404	*+	ug/L		154	48 - 127
2,6-Dinitrotoluene	2.86	4.576	*+	ug/L		160	68 - 137
2-Chloronaphthalene	2.86	2.325		ug/L		81	10 - 130
2-Methylnaphthalene	2.86	2.260		ug/L		79	25 - 175
2-Methylphenol	2.86	2.511		ug/L		88	14 - 176
2-Nitroaniline	2.86	3.430		ug/L		120	59 - 130
2-Nitrophenol	2.86	4.232		ug/L		148	45 - 167
3 & 4 Methylphenol	2.86	2.085		ug/L		73	22 - 130
3-Nitroaniline	2.86	2.009		ug/L		70	30 - 130
4,6-Dinitro-2-methylphenol	2.86	3.032		ug/L		106	10 - 130
4-Bromophenyl phenyl ether	2.86	2.624		ug/L		92	65 - 120
4-Chloro-3-methylphenol	2.86	3.249		ug/L		114	41 - 128
4-Chloroaniline	2.86	1.660		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.424		ug/L		85	38 - 145
4-Nitroaniline	2.86	2.226		ug/L		78	42 - 125
Acenaphthene	2.86	2.434		ug/L		85	60 - 132
Acenaphthylene	2.86	2.669		ug/L		93	54 - 126
Aniline	2.86	1.292		ug/L		45	15 - 130
Anthracene	2.86	2.450		ug/L		86	43 - 135
Benzo[a]anthracene	2.86	3.143		ug/L		110	42 - 133
Benzo[a]pyrene	2.86	2.715		ug/L		95	32 - 148
Benzo[b]fluoranthene	2.86	3.586		ug/L		126	42 - 140
Benzo[g,h,i]perylene	2.86	2.821		ug/L		99	25 - 195
Benzo[k]fluoranthene	2.86	3.234		ug/L		113	25 - 146
Benzyl alcohol	2.86	3.602		ug/L		126	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.980		ug/L		104	49 - 165
Bis(2-chloroethyl)ether	2.86	2.642		ug/L		92	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	4.994	*+	ug/L		175	29 - 137
Butyl benzyl phthalate	2.86	4.853	*+	ug/L		170	28 - 130
Chrysene	2.86	2.695		ug/L		94	47 - 130
Dibenz(a,h)anthracene	2.86	2.945		ug/L		103	32 - 200
Dibenzofuran	2.86	2.640		ug/L		92	48 - 130
Diethyl phthalate	2.86	3.390		ug/L		119	53 - 120
Dimethyl phthalate	2.86	3.826	*+	ug/L		134	67 - 120
Di-n-butyl phthalate	2.86	3.728	*+	ug/L		130	8 - 120
Di-n-octyl phthalate	2.86	4.953		ug/L		173	19 - 200
Fluoranthene	2.86	2.673		ug/L		94	43 - 130
Fluorene	2.86	2.434		ug/L		85	70 - 130
Hexachlorobenzene	2.86	2.192		ug/L		77	8 - 142

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	2.86	1.382		ug/L		48	10 - 130
Hexachlorocyclopentadiene	2.86	1.514		ug/L		53	10 - 130
Hexachloroethane	2.86	1.639		ug/L		57	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	3.239		ug/L		113	29 - 151
Isophorone	2.86	3.718		ug/L		130	47 - 180
Naphthalene	2.86	2.331		ug/L		82	36 - 120
Nitrobenzene	2.86	3.810	*+	ug/L		133	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.919		ug/L		102	14 - 198
N-Nitrosodiphenylamine	2.86	3.086		ug/L		108	40 - 127
Pentachlorophenol	2.86	3.975		ug/L		139	38 - 152
Phenanthrene	2.86	2.560		ug/L		90	65 - 120
Phenol	2.86	1.452	J	ug/L		51	17 - 120
Pyrene	2.86	2.808		ug/L		98	70 - 130
Pyridine	2.86	<1.44	U	ug/L		40	1 - 126
N-Nitro-o-toluidine	2.86	2.259		ug/L		79	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.893		ug/L		101	33 - 132
Acetophenone	2.86	2.569		ug/L		90	58 - 130
N-Nitrosopiperidine	2.86	3.630		ug/L		127	54 - 130
Pentachlorobenzene	2.86	1.883		ug/L		66	47 - 130
Diphenyl ether	2.86	2.504		ug/L		88	61 - 130
1,1'-Biphenyl	2.86	2.247		ug/L		79	52 - 130
4-Aminobiphenyl	2.86	1.814		ug/L		63	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.642		ug/L		57	52 - 130
1,3,5-Trinitrobenzene	2.86	5.122	*+	ug/L		179	42 - 130
1,3-Dinitrobenzene	2.86	4.587	*+	ug/L		161	54 - 130
1,4-Naphthoquinone	2.86	4.237	*+	ug/L		148	34 - 130
1-Naphthylamine	2.86	0.5008	J *-	ug/L		18	40 - 130
2,6-Dichlorophenol	2.86	3.087		ug/L		108	40 - 130
2-Acetylaminofluorene	2.86	7.517	*+	ug/L		263	50 - 150
2-Chlorophenol	2.86	2.818		ug/L		99	36 - 120
2-Naphthylamine	2.86	0.7266	*-	ug/L		25	30 - 130
2-Picoline	2.86	1.341		ug/L		47	22 - 130
2-Toluidine	2.86	1.404		ug/L		49	30 - 130
3,3'-Dichlorobenzidine	2.86	1.984		ug/L		69	20 - 150
3,3'-Dimethylbenzidine	2.86	0.3426	J *-	ug/L		12	30 - 130
3-Methylcholanthrene	2.86	2.480		ug/L		87	53 - 130
4-Nitroquinoline-1-oxide	2.86	4.728	*+	ug/L		165	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	3.320		ug/L		116	63 - 130
alpha,alpha-Dimethylphenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	2.937	*+	ug/L		206	69 - 130
Aramite Peak 2	1.43	2.819	*+	ug/L		197	65 - 130
Diallate Peak 1	2.11	2.333		ug/L		110	69 - 130
Diallate Peak 2	0.743	0.8214		ug/L		111	67 - 130
Ethyl methanesulfonate	2.86	2.051		ug/L		72	54 - 130
Hexachloropropene	2.86	1.503		ug/L		53	37 - 130
Isosafrole Peak 1	0.457	0.3579	J	ug/L		78	54 - 130
Isosafrole Peak 2	2.40	2.071		ug/L		86	62 - 130
Methyl methanesulfonate	2.86	1.182		ug/L		41	30 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	2.86	2.431		ug/L		85	54 - 130
N-Nitrosodimethylamine	2.86	1.021		ug/L		36	28 - 126
N-Nitrosodi-n-butylamine	2.86	3.706		ug/L		130	58 - 130
N-Nitrosomethylethylamine	2.86	1.890		ug/L		66	45 - 130
N-Nitrosomorpholine	2.86	1.724		ug/L		60	37 - 130
N-Nitrosopyrrolidine	2.86	1.881		ug/L		66	47 - 130
p-Dimethylamino azobenzene	2.86	2.981		ug/L		104	61 - 130
Pentachloronitrobenzene	2.86	4.674	*+	ug/L		164	56 - 130
Phenacetin	2.86	4.170	*+	ug/L		146	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	4.258	*+	ug/L		149	70 - 130
Safrole, Total	2.86	3.083		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130
2-Fluorobiphenyl	124		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	199	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	110		47 - 130

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	2.86	2.816		ug/L		99	58 - 130

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	7.744		ug/L		136	45 - 138
Dinoseb	5.71	9.305	*+	ug/L		163	49 - 130
Disulfoton	5.71	2.388		ug/L		42	38 - 134
Ethyl Parathion	5.71	10.01	*+	ug/L		175	25 - 173
Famphur	2.86	3.957		ug/L		138	43 - 142
Methapyrilene	5.71	8.801		ug/L		154	70 - 183
Methyl parathion	5.71	9.586	*+	ug/L		168	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.638		ug/L		92	43 - 130
Phorate	5.71	5.870		ug/L		103	37 - 140
Sulfotepp	5.71	6.014		ug/L		105	28 - 158
Thionazin	2.86	3.333		ug/L		117	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	138	S1+	35 - 130
2-Fluorobiphenyl	111		43 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	80		19 - 120
Nitrobenzene-d5 (Surr)	184	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	105		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,2,4-Trichlorobenzene	2.86	1.587		ug/L		56	32 - 130	9	30	
1,2-Dichlorobenzene	2.86	1.517		ug/L		53	32 - 130	9	30	
1,3-Dichlorobenzene	2.86	1.417		ug/L		50	26 - 130	8	30	
1,4-Dichlorobenzene	2.86	1.473		ug/L		52	28 - 130	8	30	
2,2'-oxybis[1-chloropropane]	2.86	2.385	J	ug/L		83	10 - 173	8	30	
2,4,5-Trichlorophenol	2.86	3.263		ug/L		114	35 - 130	13	30	
2,4,6-Trichlorophenol	2.86	2.890		ug/L		101	52 - 129	15	30	
2,4-Dichlorophenol	2.86	2.617		ug/L		92	53 - 122	12	30	
2,4-Dimethylphenol	2.86	2.152		ug/L		75	42 - 120	15	30	
1,4-Dioxane	2.86	1.043		ug/L		36	27 - 130	8	30	
2,4-Dinitrophenol	2.86	1.967	J	ug/L		69	12 - 173	27	30	
2,4-Dinitrotoluene	2.86	3.750	*+	ug/L		131	48 - 127	16	30	
2,6-Dinitrotoluene	2.86	4.144	*+	ug/L		145	68 - 137	10	30	
2-Chloronaphthalene	2.86	2.120		ug/L		74	10 - 130	9	30	
2-Methylnaphthalene	2.86	2.024		ug/L		71	25 - 175	11	30	
2-Methylphenol	2.86	2.297		ug/L		80	14 - 176	9	30	
2-Nitroaniline	2.86	3.095		ug/L		108	59 - 130	10	30	
2-Nitrophenol	2.86	3.820		ug/L		134	45 - 167	10	30	
3 & 4 Methylphenol	2.86	1.940		ug/L		68	22 - 130	7	30	
3-Nitroaniline	2.86	1.893		ug/L		66	30 - 130	6	30	
4,6-Dinitro-2-methylphenol	2.86	2.663		ug/L		93	10 - 130	13	30	
4-Bromophenyl phenyl ether	2.86	2.176		ug/L		76	65 - 120	19	30	
4-Chloro-3-methylphenol	2.86	2.920		ug/L		102	41 - 128	11	30	
4-Chloroaniline	2.86	1.606		ug/L		56	30 - 130	3	30	
4-Chlorophenyl phenyl ether	2.86	2.060		ug/L		72	38 - 145	16	30	
4-Nitroaniline	2.86	2.076		ug/L		73	42 - 125	7	30	
Acenaphthene	2.86	2.126		ug/L		74	60 - 132	14	30	
Acenaphthylene	2.86	2.418		ug/L		85	54 - 126	10	30	
Aniline	2.86	1.308		ug/L		46	15 - 130	1	30	
Anthracene	2.86	2.174		ug/L		76	43 - 135	12	30	
Benzo[a]anthracene	2.86	2.970		ug/L		104	42 - 133	6	30	
Benzo[a]pyrene	2.86	2.406		ug/L		84	32 - 148	12	30	
Benzo[b]fluoranthene	2.86	3.312		ug/L		116	42 - 140	8	30	
Benzo[g,h,i]perylene	2.86	2.495		ug/L		87	25 - 195	12	30	
Benzo[k]fluoranthene	2.86	2.987		ug/L		105	25 - 146	8	30	
Benzyl alcohol	2.86	3.542		ug/L		124	57 - 130	2	30	
Bis(2-chloroethoxy)methane	2.86	2.619		ug/L		92	49 - 165	13	30	
Bis(2-chloroethyl)ether	2.86	2.341		ug/L		82	43 - 126	12	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Bis(2-ethylhexyl) phthalate	2.86	4.487	*+	ug/L		157	29 - 137	11	30	
Butyl benzyl phthalate	2.86	4.374	*+	ug/L		153	28 - 130	10	30	
Chrysene	2.86	2.419		ug/L		85	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	2.569		ug/L		90	32 - 200	14	30	
Dibenzofuran	2.86	2.249		ug/L		79	48 - 130	16	30	
Diethyl phthalate	2.86	3.112		ug/L		109	53 - 120	9	30	
Dimethyl phthalate	2.86	3.338		ug/L		117	67 - 120	14	30	
Di-n-butyl phthalate	2.86	3.309		ug/L		116	8 - 120	12	30	
Di-n-octyl phthalate	2.86	4.445		ug/L		156	19 - 200	11	30	
Fluoranthene	2.86	2.407		ug/L		84	43 - 130	10	30	
Fluorene	2.86	2.117		ug/L		74	70 - 130	14	30	
Hexachlorobenzene	2.86	1.943		ug/L		68	8 - 142	12	30	
Hexachlorobutadiene	2.86	1.167		ug/L		41	10 - 130	17	30	
Hexachlorocyclopentadiene	2.86	1.269		ug/L		44	10 - 130	18	30	
Hexachloroethane	2.86	1.470		ug/L		51	10 - 130	11	30	
Indeno[1,2,3-cd]pyrene	2.86	2.878		ug/L		101	29 - 151	12	30	
Isophorone	2.86	3.378		ug/L		118	47 - 180	10	30	
Naphthalene	2.86	2.157		ug/L		75	36 - 120	8	30	
Nitrobenzene	2.86	3.551		ug/L		124	54 - 130	7	30	
N-Nitrosodi-n-propylamine	2.86	2.599		ug/L		91	14 - 198	12	30	
N-Nitrosodiphenylamine	2.86	2.735		ug/L		96	40 - 127	12	30	
Pentachlorophenol	2.86	3.227		ug/L		113	38 - 152	21	30	
Phenanthrene	2.86	2.195		ug/L		77	65 - 120	15	30	
Phenol	2.86	1.256	J	ug/L		44	17 - 120	15	30	
Pyrene	2.86	2.491		ug/L		87	70 - 130	12	30	
Pyridine	2.86	<1.44	U	ug/L		37	1 - 126	9	30	
N-Nitro-o-toluidine	2.86	2.104		ug/L		74	47 - 130	7	30	
2,3,4,6-Tetrachlorophenol	2.86	2.592		ug/L		91	33 - 132	11	30	
Acetophenone	2.86	2.330		ug/L		82	58 - 130	10	30	
N-Nitrosopiperidine	2.86	3.085		ug/L		108	54 - 130	16	30	
Pentachlorobenzene	2.86	1.541		ug/L		54	47 - 130	20	30	
Diphenyl ether	2.86	2.167		ug/L		76	61 - 130	14	30	
1,1'-Biphenyl	2.86	1.931		ug/L		68	52 - 130	15	30	
4-Aminobiphenyl	2.86	1.767		ug/L		62	35 - 130	3	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.476		ug/L		52	52 - 130	11	30	
1,3,5-Trinitrobenzene	2.86	4.273	*+	ug/L		150	42 - 130	18	30	
1,3-Dinitrobenzene	2.86	4.210	*+	ug/L		147	54 - 130	9	30	
1,4-Naphthoquinone	2.86	3.539		ug/L		124	34 - 130	18	30	
1-Naphthylamine	2.86	0.5143	J *-	ug/L		18	40 - 130	3	30	
2,6-Dichlorophenol	2.86	2.627		ug/L		92	40 - 130	16	30	
2-Acetylaminofluorene	2.86	7.003	*+	ug/L		245	50 - 150	7	30	
2-Chlorophenol	2.86	2.533		ug/L		89	36 - 120	11	30	
2-Naphthylamine	2.86	0.6411	*-	ug/L		22	30 - 130	12	30	
2-Picoline	2.86	1.350		ug/L		47	22 - 130	1	30	
2-Toluidine	2.86	1.421		ug/L		50	30 - 130	1	30	
3,3'-Dichlorobenzidine	2.86	1.903		ug/L		67	20 - 150	4	30	
3,3'-Dimethylbenzidine	2.86	0.3987	J *-	ug/L		14	30 - 130	15	30	
3-Methylcholanthrene	2.86	2.235		ug/L		78	53 - 130	10	30	
4-Nitroquinoline-1-oxide	2.86	4.617	*+	ug/L		162	39 - 130	2	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
7,12-Dimethylbenz(a)anthracene	2.86	3.123		ug/L		109	63 - 130	6	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	2.458	*+	ug/L		172	69 - 130	18	30	
Aramite Peak 2	1.43	2.475	*+	ug/L		173	65 - 130	13	30	
Diallate Peak 1	2.11	2.053		ug/L		97	69 - 130	13	30	
Diallate Peak 2	0.743	0.7174		ug/L		97	67 - 130	14	30	
Ethyl methanesulfonate	2.86	1.834		ug/L		64	54 - 130	11	30	
Hexachloropropene	2.86	1.241		ug/L		43	37 - 130	19	30	
Isosafrole Peak 1	0.457	0.3203	J	ug/L		70	54 - 130	11	30	
Isosafrole Peak 2	2.40	1.862		ug/L		78	62 - 130	11	30	
Methyl methanesulfonate	2.86	1.099		ug/L		38	30 - 130	7	30	
N-Nitrosodiethylamine	2.86	2.392		ug/L		84	54 - 130	2	30	
N-Nitrosodimethylamine	2.86	0.9307		ug/L		33	28 - 126	9	30	
N-Nitrosodi-n-butylamine	2.86	3.272		ug/L		115	58 - 130	12	30	
N-Nitrosomethylethylamine	2.86	1.755		ug/L		61	45 - 130	7	30	
N-Nitrosomorpholine	2.86	1.581		ug/L		55	37 - 130	9	30	
N-Nitrosopyrrolidine	2.86	1.861		ug/L		65	47 - 130	1	30	
p-Dimethylamino azobenzene	2.86	2.705		ug/L		95	61 - 130	10	30	
Pentachloronitrobenzene	2.86	3.872	*+	ug/L		136	56 - 130	19	30	
Phenacetin	2.86	3.511		ug/L		123	70 - 130	17	30	
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	3.755	*+	ug/L		131	70 - 130	13	30	
Safrole, Total	2.86	2.766		ug/L		97	70 - 130	11	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130
2-Fluorobiphenyl	107		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14	104		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acetophenone	2.86	2.732		ug/L		96	58 - 130	3	30	

**Lab Sample ID: LCSD 860-159586/5-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.633		ug/L		134	45 - 138	1	30	
Dinoseb	5.71	9.559	*+	ug/L		167	49 - 130	3	30	
Disulfoton	5.71	3.580	*1	ug/L		63	38 - 134	40	30	
Ethyl Parathion	5.71	11.60	*+	ug/L		203	25 - 173	15	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/5-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Famphur	2.86	4.439	*+	ug/L		155	43 - 142	11	30
Methapyrilene	5.71	9.267		ug/L		162	70 - 183	5	30
Methyl parathion	5.71	10.47	*+	ug/L		183	26 - 159	9	30
o,o',o"-Triethylphosphorothioate	2.86	2.726		ug/L		95	43 - 130	3	30
Phorate	5.71	6.954		ug/L		122	37 - 140	17	30
Sulfotepp	5.71	7.134		ug/L		125	28 - 158	17	30
Thionazin	2.86	3.290		ug/L		115	50 - 150	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130
2-Fluorobiphenyl	117		43 - 130
2-Fluorophenol (Surr)	66		19 - 120
Nitrobenzene-d5 (Surr)	176	S1+	37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14	113		47 - 130

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 14:30	05/15/24 16:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/15/24 16:05	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/15/24 16:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzyl alcohol	0.7250	J	1.14	0.600	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 14:30	05/15/24 16:05	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 14:30	05/15/24 16:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:30	05/15/24 16:05	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:30	05/15/24 16:05	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/15/24 16:05	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pronamide	0.1811	J I	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/15/24 16:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/15/24 16:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorobiphenyl	117		43 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorophenol (Surr)	78		19 - 120	05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133	05/14/24 14:30	05/15/24 16:05	1
Phenol-d5 (Surr)	33		8 - 124	05/14/24 14:30	05/15/24 16:05	1
p-Terphenyl-d14	121		47 - 130	05/14/24 14:30	05/15/24 16:05	1

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	2.907		ug/L		102	32 - 130
1,2-Dichlorobenzene	2.86	2.651		ug/L		93	32 - 130
1,3-Dichlorobenzene	2.86	2.518		ug/L		88	26 - 130
1,4-Dichlorobenzene	2.86	2.589		ug/L		91	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	3.056	I	ug/L		107	10 - 173
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130
2,4,6-Trichlorophenol	2.86	4.075	*+	ug/L		143	52 - 129
2,4-Dichlorophenol	2.86	3.540	*+	ug/L		124	53 - 122
2,4-Dimethylphenol	2.86	3.023		ug/L		106	42 - 120
1,4-Dioxane	2.86	1.278		ug/L		45	27 - 130
2,4-Dinitrophenol	2.86	3.263		ug/L		114	12 - 173
2,4-Dinitrotoluene	2.86	4.832	*+	ug/L		169	48 - 127
2,6-Dinitrotoluene	2.86	5.554	*+	ug/L		194	68 - 137
2-Chloronaphthalene	2.86	4.009	*+	ug/L		140	10 - 130
2-Methylnaphthalene	2.86	3.510		ug/L		123	25 - 175
2-Methylphenol	2.86	2.730		ug/L		96	14 - 176
2-Nitroaniline	2.86	5.650	*+	ug/L		198	59 - 130
2-Nitrophenol	2.86	5.344	*+	ug/L		187	45 - 167
3 & 4 Methylphenol	2.86	2.183		ug/L		76	22 - 130
3-Nitroaniline	2.86	2.061		ug/L		72	30 - 130
4,6-Dinitro-2-methylphenol	2.86	4.063	*+	ug/L		142	10 - 130
4-Bromophenyl phenyl ether	2.86	3.459	*+	ug/L		121	65 - 120
4-Chloro-3-methylphenol	2.86	4.144	*+	ug/L		145	41 - 128
4-Chloroaniline	2.86	1.659		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	3.497		ug/L		122	38 - 145
4-Nitroaniline	2.86	2.409		ug/L		84	42 - 125
Acenaphthene	2.86	2.996		ug/L		105	60 - 132
Acenaphthylene	2.86	2.391		ug/L		84	54 - 126
Aniline	2.86	1.236		ug/L		43	15 - 130
Anthracene	2.86	3.199		ug/L		112	43 - 135
Benzo[a]anthracene	2.86	4.117	*+	ug/L		144	42 - 133
Benzo[a]pyrene	2.86	3.331		ug/L		117	32 - 148
Benzo[b]fluoranthene	2.86	4.705	*+	ug/L		165	42 - 140
Benzo[g,h,i]perylene	2.86	3.439		ug/L		120	25 - 195
Benzo[k]fluoranthene	2.86	3.842		ug/L		134	25 - 146
Benzyl alcohol	2.86	3.224		ug/L		113	57 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	2.86	3.665		ug/L		128	49 - 165
Bis(2-chloroethyl)ether	2.86	2.971		ug/L		104	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	5.369	*+	ug/L		188	29 - 137
Butyl benzyl phthalate	2.86	5.915	*+	ug/L		207	28 - 130
Chrysene	2.86	3.521		ug/L		123	47 - 130
Dibenz(a,h)anthracene	2.86	3.729		ug/L		131	32 - 200
Dibenzofuran	2.86	3.449		ug/L		121	48 - 130
Diethyl phthalate	2.86	4.515	*+	ug/L		158	53 - 120
Dimethyl phthalate	2.86	4.364	*+	ug/L		153	67 - 120
Di-n-butyl phthalate	2.86	4.644	*+	ug/L		163	8 - 120
Di-n-octyl phthalate	2.86	5.725		ug/L		200	19 - 200
Fluoranthene	2.86	3.581		ug/L		125	43 - 130
Fluorene	2.86	3.236		ug/L		113	70 - 130
Hexachlorobenzene	2.86	3.251		ug/L		114	8 - 142
Hexachlorobutadiene	2.86	2.351		ug/L		82	10 - 130
Hexachlorocyclopentadiene	2.86	2.803		ug/L		98	10 - 130
Hexachloroethane	2.86	2.486		ug/L		87	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	4.042		ug/L		141	29 - 151
Isophorone	2.86	4.361		ug/L		153	47 - 180
Naphthalene	2.86	3.660	*+	ug/L		128	36 - 120
Nitrobenzene	2.86	4.338	*+	ug/L		152	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.092		ug/L		108	14 - 198
N-Nitrosodiphenylamine	2.86	2.284		ug/L		80	40 - 127
Pentachlorophenol	2.86	4.233		ug/L		148	38 - 152
Phenanthrene	2.86	3.525	*+	ug/L		123	65 - 120
Phenol	2.86	1.602	J	ug/L		56	17 - 120
Pyrene	2.86	3.723		ug/L		130	70 - 130
Pyridine	2.86	<1.44	U	ug/L		33	1 - 126
N-Nitro-o-toluidine	2.86	2.012		ug/L		70	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.749		ug/L		131	33 - 132
Acetophenone	2.86	2.801		ug/L		98	58 - 130
N-Nitrosopiperidine	2.86	4.055	*+	ug/L		142	54 - 130
Pentachlorobenzene	2.86	3.199		ug/L		112	47 - 130
Diphenyl ether	2.86	3.604		ug/L		126	61 - 130
1,1'-Biphenyl	2.86	3.188		ug/L		112	52 - 130
4-Aminobiphenyl	2.86	1.696		ug/L		59	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	3.000		ug/L		105	52 - 130
1,3,5-Trinitrobenzene	2.86	5.467	*+	ug/L		191	42 - 130
1,3-Dinitrobenzene	2.86	5.685	*+	ug/L		199	54 - 130
1,4-Naphthoquinone	2.86	4.554	*+	ug/L		159	34 - 130
1-Naphthylamine	2.86	0.6700	I *-	ug/L		23	40 - 130
2,6-Dichlorophenol	2.86	3.725		ug/L		130	40 - 130
2-Acetylaminofluorene	2.86	9.129	*+	ug/L		320	50 - 150
2-Chlorophenol	2.86	3.236		ug/L		113	36 - 120
2-Naphthylamine	2.86	0.7905	*-	ug/L		28	30 - 130
2-Picoline	2.86	1.485		ug/L		52	22 - 130
2-Toluidine	2.86	1.076		ug/L		38	30 - 130
3,3'-Dichlorobenzidine	2.86	1.832		ug/L		64	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4976	J *-	ug/L		17	30 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Methylcholanthrene	2.86	3.296		ug/L		115	53 - 130
4-Nitroquinoline-1-oxide	2.86	6.357	*+	ug/L		222	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	4.260	*+	ug/L		149	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.170	*+	ug/L		222	69 - 130
Aramite Peak 2	1.43	3.540	*+	ug/L		248	65 - 130
Diallate Peak 1	2.11	2.370		ug/L		112	69 - 130
Diallate Peak 2	0.743	0.8822		ug/L		119	67 - 130
Ethyl methanesulfonate	2.86	2.547		ug/L		89	54 - 130
Hexachloropropene	2.86	3.063		ug/L		107	37 - 130
Isosafrole Peak 1	0.457	0.3620	J	ug/L		79	54 - 130
Isosafrole Peak 2	2.40	1.859		ug/L		77	62 - 130
Methyl methanesulfonate	2.86	1.354		ug/L		47	30 - 130
N-Nitrosodiethylamine	2.86	3.079		ug/L		108	54 - 130
N-Nitrosodimethylamine	2.86	1.240		ug/L		43	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.427	*+	ug/L		155	58 - 130
N-Nitrosomethylethylamine	2.86	2.289		ug/L		80	45 - 130
N-Nitrosomorpholine	2.86	2.009		ug/L		70	37 - 130
N-Nitrosopyrrolidine	2.86	2.321		ug/L		81	47 - 130
p-Dimethylamino azobenzene	2.86	4.390	*+	ug/L		154	61 - 130
Pentachloronitrobenzene	2.86	4.827	*+	ug/L		169	56 - 130
Phenacetin	2.86	4.508	*+	ug/L		158	70 - 130
p-Phenylene diamine	2.86	<0.500	U	ug/L		11	3 - 120
Pronamide	2.86	4.772	*+	ug/L		167	70 - 130
Safrole, Total	2.86	2.669		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	93		19 - 120
Nitrobenzene-d5 (Surr)	206	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	8.349	*+	ug/L		146	45 - 138
Dinoseb	5.71	10.58	*+	ug/L		185	49 - 130
Disulfoton	5.71	6.417		ug/L		112	38 - 134
Ethyl Parathion	5.71	12.45	*+	ug/L		218	25 - 173
Famphur	2.86	4.910	*+	ug/L		172	43 - 142
Methapyrilene	5.71	9.732		ug/L		170	70 - 183
Methyl parathion	5.71	11.52	*+	ug/L		202	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	3.465		ug/L		121	43 - 130
Phorate	5.71	8.223	*+	ug/L		144	37 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfotepp	5.71	7.783		ug/L		136	28 - 158
Thionazin	2.86	3.524		ug/L		123	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	149	S1+	35 - 130
2-Fluorobiphenyl	126		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	185	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	2.875		ug/L		101	32 - 130	1	30
1,2-Dichlorobenzene	2.86	2.824		ug/L		99	32 - 130	6	30
1,3-Dichlorobenzene	2.86	2.628		ug/L		92	26 - 130	4	30
1,4-Dichlorobenzene	2.86	2.725		ug/L		95	28 - 130	5	30
2,2'-oxybis[1-chloropropane]	2.86	3.206	I	ug/L		112	10 - 173	5	30
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130	0	30
2,4,6-Trichlorophenol	2.86	4.136	*+	ug/L		145	52 - 129	1	30
2,4-Dichlorophenol	2.86	3.788	*+	ug/L		133	53 - 122	7	30
2,4-Dimethylphenol	2.86	2.886		ug/L		101	42 - 120	5	30
1,4-Dioxane	2.86	1.347		ug/L		47	27 - 130	5	30
2,4-Dinitrophenol	2.86	3.573		ug/L		125	12 - 173	9	30
2,4-Dinitrotoluene	2.86	5.083	*+	ug/L		178	48 - 127	5	30
2,6-Dinitrotoluene	2.86	5.609	*+	ug/L		196	68 - 137	1	30
2-Chloronaphthalene	2.86	4.075	*+	ug/L		143	10 - 130	2	30
2-Methylnaphthalene	2.86	3.440		ug/L		120	25 - 175	2	30
2-Methylphenol	2.86	2.668		ug/L		93	14 - 176	2	30
2-Nitroaniline	2.86	5.733	*+	ug/L		201	59 - 130	1	30
2-Nitrophenol	2.86	5.516	*+	ug/L		193	45 - 167	3	30
3 & 4 Methylphenol	2.86	2.098		ug/L		73	22 - 130	4	30
3-Nitroaniline	2.86	2.189		ug/L		77	30 - 130	6	30
4,6-Dinitro-2-methylphenol	2.86	4.009	*+	ug/L		140	10 - 130	1	30
4-Bromophenyl phenyl ether	2.86	3.778	*+	ug/L		132	65 - 120	9	30
4-Chloro-3-methylphenol	2.86	4.206	*+	ug/L		147	41 - 128	1	30
4-Chloroaniline	2.86	1.780		ug/L		62	30 - 130	7	30
4-Chlorophenyl phenyl ether	2.86	3.726		ug/L		130	38 - 145	6	30
4-Nitroaniline	2.86	2.495		ug/L		87	42 - 125	4	30
Acenaphthene	2.86	2.810		ug/L		98	60 - 132	6	30
Acenaphthylene	2.86	2.424		ug/L		85	54 - 126	1	30
Aniline	2.86	1.087		ug/L		38	15 - 130	13	30
Anthracene	2.86	3.099		ug/L		108	43 - 135	3	30
Benzo[a]anthracene	2.86	3.759		ug/L		132	42 - 133	9	30
Benzo[a]pyrene	2.86	3.327		ug/L		116	32 - 148	0	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[b]fluoranthene	2.86	4.072	*+	ug/L		143	42 - 140	14	30	
Benzo[g,h,i]perylene	2.86	3.452		ug/L		121	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	3.480		ug/L		122	25 - 146	10	30	
Benzyl alcohol	2.86	3.460		ug/L		121	57 - 130	7	30	
Bis(2-chloroethoxy)methane	2.86	3.758		ug/L		132	49 - 165	3	30	
Bis(2-chloroethyl)ether	2.86	3.127		ug/L		109	43 - 126	5	30	
Bis(2-ethylhexyl) phthalate	2.86	4.865	*+	ug/L		170	29 - 137	10	30	
Butyl benzyl phthalate	2.86	5.844	*+	ug/L		205	28 - 130	1	30	
Chrysene	2.86	3.158		ug/L		111	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	3.669		ug/L		128	32 - 200	2	30	
Dibenzofuran	2.86	3.652		ug/L		128	48 - 130	6	30	
Diethyl phthalate	2.86	4.432	*+	ug/L		155	53 - 120	2	30	
Dimethyl phthalate	2.86	4.497	*+	ug/L		157	67 - 120	3	30	
Di-n-butyl phthalate	2.86	4.593	*+	ug/L		161	8 - 120	1	30	
Di-n-octyl phthalate	2.86	5.130		ug/L		180	19 - 200	11	30	
Fluoranthene	2.86	3.667		ug/L		128	43 - 130	2	30	
Fluorene	2.86	3.357		ug/L		117	70 - 130	4	30	
Hexachlorobenzene	2.86	3.126		ug/L		109	8 - 142	4	30	
Hexachlorobutadiene	2.86	2.528		ug/L		88	10 - 130	7	30	
Hexachlorocyclopentadiene	2.86	2.912		ug/L		102	10 - 130	4	30	
Hexachloroethane	2.86	2.609		ug/L		91	10 - 130	5	30	
Indeno[1,2,3-cd]pyrene	2.86	3.973		ug/L		139	29 - 151	2	30	
Isophorone	2.86	4.559		ug/L		160	47 - 180	4	30	
Naphthalene	2.86	3.606	*+	ug/L		126	36 - 120	1	30	
Nitrobenzene	2.86	4.626	*+	ug/L		162	54 - 130	6	30	
N-Nitrosodi-n-propylamine	2.86	3.161		ug/L		111	14 - 198	2	30	
N-Nitrosodiphenylamine	2.86	2.359		ug/L		83	40 - 127	3	30	
Pentachlorophenol	2.86	4.290		ug/L		150	38 - 152	1	30	
Phenanthrene	2.86	3.535	*+	ug/L		124	65 - 120	0	30	
Phenol	2.86	1.636	J	ug/L		57	17 - 120	2	30	
Pyrene	2.86	3.722		ug/L		130	70 - 130	0	30	
Pyridine	2.86	<1.44	U	ug/L		36	1 - 126	8	30	
N-Nitro-o-toluidine	2.86	2.132		ug/L		75	47 - 130	6	30	
2,3,4,6-Tetrachlorophenol	2.86	3.760		ug/L		132	33 - 132	0	30	
Acetophenone	2.86	2.947		ug/L		103	58 - 130	5	30	
N-Nitrosopiperidine	2.86	4.213	*+	ug/L		147	54 - 130	4	30	
Pentachlorobenzene	2.86	3.296		ug/L		115	47 - 130	3	30	
Diphenyl ether	2.86	3.671		ug/L		128	61 - 130	2	30	
1,1'-Biphenyl	2.86	3.306		ug/L		116	52 - 130	4	30	
4-Aminobiphenyl	2.86	1.814		ug/L		64	35 - 130	7	30	
1,2,4,5-Tetrachlorobenzene	2.86	3.048		ug/L		107	52 - 130	2	30	
1,3,5-Trinitrobenzene	2.86	5.777	*+	ug/L		202	42 - 130	6	30	
1,3-Dinitrobenzene	2.86	5.712	*+	ug/L		200	54 - 130	0	30	
1,4-Naphthoquinone	2.86	4.642	*+	ug/L		162	34 - 130	2	30	
1-Naphthylamine	2.86	0.3682	J   *- *1	ug/L		13	40 - 130	58	30	
2,6-Dichlorophenol	2.86	3.691		ug/L		129	40 - 130	1	30	
2-Acetylaminofluorene	2.86	8.930	*+	ug/L		313	50 - 150	2	30	
2-Chlorophenol	2.86	3.424		ug/L		120	36 - 120	6	30	
2-Naphthylamine	2.86	0.4953	J *- *1	ug/L		17	30 - 130	46	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
2-Picoline	2.86	1.348		ug/L		47	22 - 130	10	30	
2-Toluidine	2.86	1.048		ug/L		37	30 - 130	3	30	
3,3'-Dichlorobenzidine	2.86	1.946		ug/L		68	20 - 150	6	30	
3,3'-Dimethylbenzidine	2.86	0.3553	J * - *1	ug/L		12	30 - 130	33	30	
3-Methylcholanthrene	2.86	3.233		ug/L		113	53 - 130	2	30	
4-Nitroquinoline-1-oxide	2.86	6.027	*+	ug/L		211	39 - 130	5	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.801	*+	ug/L		133	63 - 130	11	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U * -	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	3.509	*+	ug/L		246	69 - 130	10	30	
Aramite Peak 2	1.43	3.432	*+	ug/L		240	65 - 130	3	30	
Diallate Peak 1	2.11	2.476		ug/L		117	69 - 130	4	30	
Diallate Peak 2	0.743	0.8093		ug/L		109	67 - 130	9	30	
Ethyl methanesulfonate	2.86	2.625		ug/L		92	54 - 130	3	30	
Hexachloropropene	2.86	3.036		ug/L		106	37 - 130	1	30	
Isosafrole Peak 1	0.457	0.3482	J	ug/L		76	54 - 130	4	30	
Isosafrole Peak 2	2.40	1.878		ug/L		78	62 - 130	1	30	
Methyl methanesulfonate	2.86	1.424		ug/L		50	30 - 130	5	30	
N-Nitrosodiethylamine	2.86	3.272		ug/L		115	54 - 130	6	30	
N-Nitrosodimethylamine	2.86	1.262		ug/L		44	28 - 126	2	30	
N-Nitrosodi-n-butylamine	2.86	4.563	*+	ug/L		160	58 - 130	3	30	
N-Nitrosomethylethylamine	2.86	2.398		ug/L		84	45 - 130	5	30	
N-Nitrosomorpholine	2.86	2.035		ug/L		71	37 - 130	1	30	
N-Nitrosopyrrolidine	2.86	2.316		ug/L		81	47 - 130	0	30	
p-Dimethylamino azobenzene	2.86	4.128	*+	ug/L		144	61 - 130	6	30	
Pentachloronitrobenzene	2.86	5.144	*+	ug/L		180	56 - 130	6	30	
Phenacetin	2.86	4.635	*+	ug/L		162	70 - 130	3	30	
p-Phenylene diamine	2.86	<0.500	U * - *1	ug/L		0	3 - 120	200	30	
Pronamide	2.86	4.807	*+	ug/L		168	70 - 130	1	30	
Safrole, Total	2.86	2.539		ug/L		89	70 - 130	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	162	S1+	35 - 130
2-Fluorobiphenyl	136	S1+	43 - 130
2-Fluorophenol (Surr)	98		19 - 120
Nitrobenzene-d5 (Surr)	211	S1+	37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14	121		47 - 130

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.862		ug/L		138	45 - 138	6	30	
Dinoseb	5.71	10.04	*+	ug/L		176	49 - 130	5	30	
Disulfoton	5.71	5.406		ug/L		95	38 - 134	17	30	
Ethyl Parathion	5.71	11.34	*+	ug/L		198	25 - 173	9	30	
Famphur	2.86	4.422	*+	ug/L		155	43 - 142	10	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methapyrilene	5.71	9.127		ug/L		160	70 - 183	6	30
Methyl parathion	5.71	10.21	*+	ug/L		179	26 - 159	12	30
o,o',o"-Triethylphosphorothioate	2.86	3.178		ug/L		111	43 - 130	9	30
Phorate	5.71	7.544		ug/L		132	37 - 140	9	30
Sulfotepp	5.71	7.160		ug/L		125	28 - 158	8	30
Thionazin	2.86	3.352		ug/L		117	50 - 150	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130
2-Fluorobiphenyl	147	S1+	43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	204	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	127		47 - 130



# QC Association Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## GC/MS VOA

### Analysis Batch: 159779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1	MW-79	Total/NA	Water	8260D	
860-73911-2	MW-86	Total/NA	Water	8260D	
860-73911-3	MW-87	Total/NA	Water	8260D	
860-73911-4	MW-39	Total/NA	Water	8260D	
860-73911-5	MW-85	Total/NA	Water	8260D	
860-73911-6	TB-01 (050724)	Total/NA	Water	8260D	
MB 860-159779/9	Method Blank	Total/NA	Water	8260D	
LCS 860-159779/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-159779/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-73918-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

### Analysis Batch: 160047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1 - RA	MW-79	Total/NA	Water	8260D	
860-73911-2 - RA	MW-86	Total/NA	Water	8260D	
860-73911-3 - RA	MW-87	Total/NA	Water	8260D	
860-73911-4 - RA	MW-39	Total/NA	Water	8260D	
860-73911-5 - RA	MW-85	Total/NA	Water	8260D	
860-73911-6 - RA	TB-01 (050724)	Total/NA	Water	8260D	
MB 860-160047/10	Method Blank	Total/NA	Water	8260D	
LCS 860-160047/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160047/4	Lab Control Sample Dup	Total/NA	Water	8260D	
880-43280-A-17 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
880-43280-C-17 MS	Matrix Spike	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 159586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1	MW-79	Total/NA	Water	3511	
860-73911-2	MW-86	Total/NA	Water	3511	
860-73911-3	MW-87	Total/NA	Water	3511	
860-73911-4	MW-39	Total/NA	Water	3511	
860-73911-5	MW-85	Total/NA	Water	3511	
MB 860-159586/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 159684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1	MW-79	Total/NA	Water	8270E	159586
860-73911-2	MW-86	Total/NA	Water	8270E	159586
860-73911-3	MW-87	Total/NA	Water	8270E	159586
860-73911-4	MW-39	Total/NA	Water	8270E	159586
860-73911-5	MW-85	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 159684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Analysis Batch: 159857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-4	MW-39	Total/NA	Water	8270E	159586

### Analysis Batch: 159967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1	MW-79	Total/NA	Water	8270E	159586
860-73911-2	MW-86	Total/NA	Water	8270E	159586
860-73911-3	MW-87	Total/NA	Water	8270E	159586
860-73911-4	MW-39	Total/NA	Water	8270E	159586
860-73911-5	MW-85	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Analysis Batch: 160095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1	MW-79	Total/NA	Water	8270E	159586
860-73911-1	MW-79	Total/NA	Water	8270E	159586
860-73911-2	MW-86	Total/NA	Water	8270E	159586
860-73911-3	MW-87	Total/NA	Water	8270E	159586
860-73911-4	MW-39	Total/NA	Water	8270E	159586
860-73911-5	MW-85	Total/NA	Water	8270E	159586

### Prep Batch: 160172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1 - DL	MW-79	Total/NA	Water	3511	
860-73911-1	MW-79	Total/NA	Water	3511	
860-73911-2	MW-86	Total/NA	Water	3511	
860-73911-3	MW-87	Total/NA	Water	3511	
860-73911-4 - DL	MW-39	Total/NA	Water	3511	
860-73911-4	MW-39	Total/NA	Water	3511	
860-73911-5	MW-85	Total/NA	Water	3511	
MB 860-160172/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 160340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-160172/1-A	Method Blank	Total/NA	Water	8270E	160172
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172

# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## GC/MS Semi VOA

### Analysis Batch: 160986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73911-1	MW-79	Total/NA	Water	8270E	160172
860-73911-1 - DL	MW-79	Total/NA	Water	8270E	160172
860-73911-2	MW-86	Total/NA	Water	8270E	160172
860-73911-3	MW-87	Total/NA	Water	8270E	160172
860-73911-4	MW-39	Total/NA	Water	8270E	160172
860-73911-4 - DL	MW-39	Total/NA	Water	8270E	160172
860-73911-5	MW-85	Total/NA	Water	8270E	160172

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# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-79**

**Lab Sample ID: 860-73911-1**

**Date Collected: 05/07/24 08:44**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 14:10	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 11:49	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 00:54	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/10/24 21:18	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	160095	05/14/24 14:56	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160095	05/14/24 21:24	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/17/24 21:50	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL	50	1 mL	1 mL	160986	05/17/24 22:19	PXS	EET HOU

**Client Sample ID: MW-86**

**Lab Sample ID: 860-73911-2**

**Date Collected: 05/07/24 08:46**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 11:06	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 12:09	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 01:22	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/10/24 21:48	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160095	05/14/24 21:54	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/17/24 22:47	PXS	EET HOU

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

**Date Collected: 05/07/24 09:37**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 11:26	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 12:30	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 01:50	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/10/24 22:17	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160095	05/14/24 22:24	PXS	EET HOU

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: MW-87**

**Lab Sample ID: 860-73911-3**

Date Collected: 05/07/24 09:37

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/17/24 23:16	PXS	EET HOU

**Client Sample ID: MW-39**

**Lab Sample ID: 860-73911-4**

Date Collected: 05/07/24 09:54

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 11:47	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 12:50	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 02:18	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/10/24 22:48	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		10	1 mL	1 mL	159857	05/13/24 22:14	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160095	05/14/24 22:53	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/17/24 23:45	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	160986	05/18/24 00:13	PXS	EET HOU

**Client Sample ID: MW-85**

**Lab Sample ID: 860-73911-5**

Date Collected: 05/07/24 10:15

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 12:07	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 13:11	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 02:46	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/10/24 23:17	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160095	05/14/24 23:23	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 00:42	PXS	EET HOU

**Client Sample ID: TB-01 (050724)**

**Lab Sample ID: 860-73911-6**

Date Collected: 05/07/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 10:04	NA	EET HOU

Eurofins Houston

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

**Client Sample ID: TB-01 (050724)**

**Lab Sample ID: 860-73911-6**

**Date Collected: 05/07/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 13:31	A1S	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	05-21-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200





# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73911-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-73911-1	MW-79	Water	05/07/24 08:44	05/09/24 10:49
860-73911-2	MW-86	Water	05/07/24 08:46	05/09/24 10:49
860-73911-3	MW-87	Water	05/07/24 09:37	05/09/24 10:49
860-73911-4	MW-39	Water	05/07/24 09:54	05/09/24 10:49
860-73911-5	MW-85	Water	05/07/24 10:15	05/09/24 10:49
860-73911-6	TB-01 (050724)	Water	05/07/24 00:00	05/09/24 10:49

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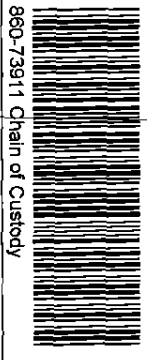
14

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**Client Information**  
 Client Contact: Mr. Antonio Cardoso  
 Company: Arcadis U.S. Inc.  
 Address: 4300 West Cypress Street Suite 450  
 City: Tampa  
 State, Zip: FL, 33607  
 Phone: 1095575  
 Email: antonio.cardoso@arcadis.com  
 Project Name: Hercules Hattiesburg MS  
 Site:   
 Project #: 86006095  
 SSO/W#:   
 Lab P#: Sachin Kudchadkar  
 E-Mail: Sachin.Kudchadkar@eurolns.com  
 Carrier/Tracking No(s):   
 State of Origin:   
 CDC No: 860-29133-10045.4  
 Page: Page 4 of 8  
 Job #:   
 Preservation Codes: N None

**Analysis Requested**  
 Due Date Requested:   
 TAT Requested (days):   
 Compliance Project:  Yes  No  
 PO #:   
 WO #:   
 Field Filtered Sample (Yes or No)  
 Yes  No  
 8270E\_QQ (MOD) Appendix 9 SVOCs  
 8260D (MOD) Appendix 9 VOCs  
 Preservation Codes:  
 N None  
 Other:   
 Special Instructions/Note:   
 Total Number of containers:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Carrier/Tracking No(s)	CDC No
MM-22D MW-22B MW-22C MW-22D MW-22E MW-22F MW-22G MW-22H MW-22I MW-22J MW-22K MW-22L MW-22M MW-22N MW-22O MW-22P MW-22Q MW-22R MW-22S MW-22T MW-22U MW-22V MW-22W MW-22X MW-22Y MW-22Z	5-7-24	0844	G	Water	W	X			
MW-86				Water					
MW-85				Water					
MW-84				Water					
MW-83				Water					
MW-82				Water					
MW-81				Water					
MW-80				Water					
MW-79				Water					
MW-78				Water					
MW-77				Water					
MW-76				Water					
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MW-74				Water					
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MW-68				Water					
MW-67				Water					
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MW-9				Water					
MW-8				Water					
MW-7				Water					
MW-6				Water					
MW-5				Water					
MW-4				Water					
MW-3				Water					
MW-2				Water					
MW-1				Water					



**Deliverable Requested**  I, II, III, IV Other (specify)   
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Empty Kit Relinquished by:**   
 Relinquished by:   
 Date/Time:   
 Company:   
 Relinquished by:   
 Date/Time:   
 Company:   
 Relinquished by:   
 Date/Time:   
 Company:

**Custody Seals Intact:**  Yes  No   
 Custody Seal No.   
 Cooler Temperature(s) °C and Other Remarks:   
 Method of Shipment:   
 Date/Time:   
 Company:   
 Received by:   
 Date/Time:   
 Company:   
 Received by:   
 Date/Time:   
 Company:   
 Received by:   
 Date/Time:   
 Company:

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-73911-1

**Login Number: 73911**

**List Number: 1**

**Creator: Jimenez, Nicanor**

**List Source: Eurofins Houston**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/30/2024 9:26:06 AM

## JOB DESCRIPTION

Hercules Hattiesburg, MS

## JOB NUMBER

860-73918-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
5/30/2024 9:26:06 AM

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Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73918-1

Job ID: 860-73918-1

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## Job Narrative 860-73918-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/9/2024 10:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

### GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-159779 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The following sample was diluted due to color.>>: MW-43 (860-73918-2). Elevated reporting limits (RL) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-160047 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-159586 and analytical batch 860-159684 was outside the upper control limits.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: Dinoseb, Disulfoton, Famphur and Methapyrilene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analyte: Disulfoton.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-47 (860-73918-1) and MW-43 (860-73918-2). These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Acetylaminofluorene, 4-Nitroquinoline-1-oxide, Aramite Peak 1, Aramite Peak 2, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate,

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Job ID: 860-73918-1 (Continued)

**Eurofins Houston**

Nitrobenzene, Pentachloronitrobenzene, Phenacetin and Pronamide. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-47 (860-73918-1) and MW-43 (860-73918-2). These results have been reported and qualified.

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-160172 and analytical batch 860-160340 was outside the upper control limits.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-43 (860-73918-2). These results have been reported and qualified.

Method 8270E\_QQQ: The method blank for preparation batch 860-160172 and analytical batch 860-160340 contained Benzyl alcohol and Pronamide above the method detection limit. These target analytes concentration were less than the reporting limit in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine, and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: MW-47 (860-73918-1). Re-extraction and re-analysis was performed and surrogate recovery was outside control limits. Both sets of data have reported.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: p-Phenylene diamine.

Method 8270E\_QQQ: Benzyl alcohol was detected above the reporting limit (RL) in the method blank associated with preparation batch 860-159586 and analytical batch 860-159684 as well as in the following sample: (MB 860-159586/1-A). All affected samples were re-extracted and re-analyzed.

Method 8270E\_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-47 (860-73918-1). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-47 (860-73918-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Client Sample ID: MW-47

## Lab Sample ID: 860-73918-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	19.0		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0182	J   B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0162	J	0.0571	0.0100	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.28	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.663	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Bis(2-chloroethyl)ether	11.4	I	0.571	0.214	ug/L	1		8270E	Total/NA
Diphenyl ether	0.987		0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.210	J	0.571	0.0981	ug/L	1		8270E	Total/NA
1,4-Dioxane - DL	24.3		5.71	0.890	ug/L	10		8270E	Total/NA

## Client Sample ID: MW-43

## Lab Sample ID: 860-73918-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.14		0.571	0.0890	ug/L	1		8270E	Total/NA
1,4-Dioxane	3.43		0.571	0.0890	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	0.143	J	0.571	0.139	ug/L	1		8270E	Total/NA
Acenaphthene	0.170	J	0.571	0.107	ug/L	1		8270E	Total/NA
Acenaphthene	0.299	J	0.571	0.107	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0144	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.68	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.793	J   B	1.14	0.600	ug/L	1		8270E	Total/NA
Bis(2-chloroethyl)ether	0.878		0.571	0.214	ug/L	1		8270E	Total/NA
Fluorene	0.105	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	0.173	J	0.571	0.0944	ug/L	1		8270E	Total/NA
Naphthalene	0.314	J **	0.571	0.0944	ug/L	1		8270E	Total/NA
Diphenyl ether	0.117	J	0.571	0.0910	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-02 (050724)

## Lab Sample ID: 860-73918-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

**Date Collected: 05/07/24 11:29**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 10:45	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 10:45	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 10:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 10:45	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 10:45	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 10:45	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 10:45	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 10:45	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 10:45	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 10:45	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 10:45	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 10:45	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 10:45	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 10:45	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 10:45	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 10:45	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 10:45	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 10:45	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 10:45	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 10:45	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 10:45	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 10:45	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 10:45	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 10:45	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 10:45	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 10:45	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 10:45	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 10:45	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 10:45	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 10:45	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 10:45	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 10:45	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 10:45	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 10:45	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 10:45	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 10:45	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 10:45	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 10:45	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 10:45	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 10:45	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 10:45	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 10:45	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 10:45	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 10:45	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 10:45	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 10:45	1
Hexane	<0.517	U F1	5.00	0.517	ug/L			05/13/24 10:45	1
Iodomethane	<6.52	U F1	20.0	6.52	ug/L			05/13/24 10:45	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 10:45	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

**Date Collected: 05/07/24 11:29**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 10:45	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 10:45	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 10:45	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 10:45	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 10:45	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 10:45	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 10:45	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 10:45	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 10:45	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 10:45	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 10:45	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 10:45	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 10:45	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 10:45	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 10:45	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 10:45	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 10:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 10:45	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 10:45	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/13/24 10:45	1
Dibromofluoromethane (Surr)	100		75 - 131		05/13/24 10:45	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 10:45	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		05/14/24 13:52	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/14/24 13:52	1
Dibromofluoromethane (Surr)	112		75 - 131		05/14/24 13:52	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 13:52	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 23:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

**Date Collected: 05/07/24 11:29**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 02:10	1
<b>1,4-Dioxane</b>	<b>19.0</b>		0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 02:10	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 23:47	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 02:10	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 23:47	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 02:10	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 23:47	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 02:10	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 23:47	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:10	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 23:47	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 02:10	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 23:47	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 02:10	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 23:47	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 02:10	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 23:47	1
<b>Benzo[a]anthracene</b>	<b>0.0182</b>	<b>J I B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 02:10	1
<b>Benzo[a]pyrene</b>	<b>0.0162</b>	<b>J</b>	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 23:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

**Date Collected: 05/07/24 11:29**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 02:10	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 23:47	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 02:10	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 23:47	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 02:10	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 23:47	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 02:10	1
<b>Benzy alcohol</b>	<b>1.28</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/10/24 23:47	1
<b>Benzy alcohol</b>	<b>0.663</b>	<b>J B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 02:10	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 23:47	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 02:10	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 23:47	1
<b>Bis(2-chloroethyl)ether</b>	<b>11.4</b>	<b>I</b>	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 02:10	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 23:47	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 02:10	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 23:47	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:10	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 23:47	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 02:10	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 23:47	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 02:10	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 23:47	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:10	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 23:47	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 02:10	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 23:47	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 02:10	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 23:47	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 02:10	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 23:47	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 02:10	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 23:47	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 02:10	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 23:47	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 02:10	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 23:47	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 02:10	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 23:47	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 02:10	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 23:47	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 02:10	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 23:47	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:10	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:47	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:10	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 23:47	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:10	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 23:47	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 02:10	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

Date Collected: 05/07/24 11:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 23:47	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 02:10	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 23:47	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 02:10	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 23:47	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 02:10	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 23:47	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 02:10	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 23:47	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 02:10	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 23:47	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 02:10	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 02:10	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 23:47	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 02:10	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 23:47	1
<b>Diphenyl ether</b>	<b>0.987</b>		0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 23:47	1
<b>1,1'-Biphenyl</b>	<b>0.210</b>	<b>J</b>	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 02:10	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 23:47	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 02:10	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 23:47	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:10	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 23:47	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 02:10	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

**Date Collected: 05/07/24 11:29**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 02:10	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 23:47	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 02:10	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 23:47	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 02:10	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 23:47	1
3,3'-Dimethylbenzidine	<0.142	U * *	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 02:10	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 23:47	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:10	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 23:47	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 02:10	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 23:47	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:10	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 23:47	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 02:10	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 23:47	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 02:10	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 23:47	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:10	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 23:47	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:10	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 23:47	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:10	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 23:47	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:10	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 23:47	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:10	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 23:47	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 02:10	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 23:47	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 02:10	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 23:47	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 02:10	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 23:47	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 02:10	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 23:47	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 02:10	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 23:47	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 02:10	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 23:47	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 02:10	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 23:47	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:10	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 23:47	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 02:10	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 23:47	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:10	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 23:47	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

**Date Collected: 05/07/24 11:29**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 02:10	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 23:47	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 02:10	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 23:47	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 02:10	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 23:47	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 02:10	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 23:47	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 02:10	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 23:47	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 02:10	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:47	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:10	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:47	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:10	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 23:47	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 02:10	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 23:47	1
p-Phenylene diamine	<0.500	U * -1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:10	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 23:47	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:10	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 23:47	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 02:10	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 23:47	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 02:10	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 23:47	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	147	S1+	35 - 130	05/10/24 10:20	05/10/24 23:47	1
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130	05/14/24 14:30	05/18/24 02:10	1
2-Fluorobiphenyl	118		43 - 130	05/10/24 10:20	05/10/24 23:47	1
2-Fluorobiphenyl	142	S1+	43 - 130	05/14/24 14:30	05/18/24 02:10	1
2-Fluorophenol (Surr)	84		19 - 120	05/10/24 10:20	05/10/24 23:47	1
2-Fluorophenol (Surr)	124	S1+	19 - 120	05/14/24 14:30	05/18/24 02:10	1
Nitrobenzene-d5 (Surr)	176	S1+	37 - 133	05/10/24 10:20	05/10/24 23:47	1
Nitrobenzene-d5 (Surr)	165	S1+	37 - 133	05/14/24 14:30	05/18/24 02:10	1
Phenol-d5 (Surr)	52		8 - 124	05/10/24 10:20	05/10/24 23:47	1
Phenol-d5 (Surr)	90		8 - 124	05/14/24 14:30	05/18/24 02:10	1
p-Terphenyl-d14	95		47 - 130	05/10/24 10:20	05/10/24 23:47	1

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

Date Collected: 05/07/24 11:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	135	S1+	47 - 130	05/14/24 14:30	05/18/24 02:10	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	24.3		5.71	0.890	ug/L		05/14/24 14:30	05/20/24 14:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	127		35 - 130	05/14/24 14:30	05/20/24 14:36	10
2-Fluorobiphenyl	116		43 - 130	05/14/24 14:30	05/20/24 14:36	10
2-Fluorophenol (Surr)	115		19 - 120	05/14/24 14:30	05/20/24 14:36	10
Nitrobenzene-d5 (Surr)	139	S1+	37 - 133	05/14/24 14:30	05/20/24 14:36	10
Phenol-d5 (Surr)	76		8 - 124	05/14/24 14:30	05/20/24 14:36	10
p-Terphenyl-d14	125		47 - 130	05/14/24 14:30	05/20/24 14:36	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 03:15	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/14/24 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130	05/10/24 10:20	05/14/24 23:52	1
2-Fluorobiphenyl	126		43 - 130	05/10/24 10:20	05/14/24 23:52	1
2-Fluorophenol (Surr)	80		19 - 120	05/10/24 10:20	05/14/24 23:52	1
Nitrobenzene-d5 (Surr)	187	S1+	37 - 133	05/10/24 10:20	05/14/24 23:52	1
Phenol-d5 (Surr)	46		8 - 124	05/10/24 10:20	05/14/24 23:52	1
p-Terphenyl-d14	94		47 - 130	05/10/24 10:20	05/14/24 23:52	1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

Date Collected: 05/07/24 11:34

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.29	U	2.00	1.29	ug/L			05/13/24 14:51	2
1,1,1-Trichloroethane	<1.17	U	10.0	1.17	ug/L			05/13/24 14:51	2
1,1,2,2-Tetrachloroethane	<0.940	U	2.00	0.940	ug/L			05/13/24 14:51	2
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.22	U	20.0	2.22	ug/L			05/13/24 14:51	2
1,1,2-Trichloroethane	<0.822	U	2.00	0.822	ug/L			05/13/24 14:51	2
1,1-Dichloroethane	<1.27	U	2.00	1.27	ug/L			05/13/24 14:51	2
1,1-Dichloroethene	<1.48	U	2.00	1.48	ug/L			05/13/24 14:51	2
1,2,3-Trichloropropane	<0.940	U	2.00	0.940	ug/L			05/13/24 14:51	2
1,2,4-Trimethylbenzene	<0.834	U	2.00	0.834	ug/L			05/13/24 14:51	2
1,2-Dibromo-3-Chloropropane	<1.34	U	10.0	1.34	ug/L			05/13/24 14:51	2
1,2-Dibromoethane	<2.00	U	10.0	2.00	ug/L			05/13/24 14:51	2
1,2-Dichloroethane	<0.744	U	2.00	0.744	ug/L			05/13/24 14:51	2
1,2-Dichloropropane	<1.11	U	10.0	1.11	ug/L			05/13/24 14:51	2
1,3,5-Trimethylbenzene	<0.822	U	2.00	0.822	ug/L			05/13/24 14:51	2
1,3-Butadiene	<1.14	U	2.00	1.14	ug/L			05/13/24 14:51	2

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<1.00	U	10.0	1.00	ug/L			05/13/24 14:51	2
2-Butanone (MEK)	<16.6	U	100	16.6	ug/L			05/13/24 14:51	2
2-Hexanone (MBK)	<14.9	U	100	14.9	ug/L			05/13/24 14:51	2
2-Propanol	<10.5	U	20.0	10.5	ug/L			05/13/24 14:51	2
3-Chloropropene (Allyl Chloride)	<1.19	U	10.0	1.19	ug/L			05/13/24 14:51	2
4-Methyl-2-pentanone	<15.0	U	100	15.0	ug/L			05/13/24 14:51	2
Acetone	<6.13	U	200	6.13	ug/L			05/13/24 14:51	2
Acetonitrile	<29.2	U	200	29.2	ug/L			05/13/24 14:51	2
Acrolein	<22.2	U	100	22.2	ug/L			05/13/24 14:51	2
Acrylonitrile	<28.6	U	100	28.6	ug/L			05/13/24 14:51	2
alpha-Chlorotoluene	<4.51	U	10.0	4.51	ug/L			05/13/24 14:51	2
Benzene	<0.919	U	2.00	0.919	ug/L			05/13/24 14:51	2
Bromodichloromethane	<1.10	U	2.00	1.10	ug/L			05/13/24 14:51	2
Bromoform	<1.27	U	10.0	1.27	ug/L			05/13/24 14:51	2
Bromomethane	<2.84	U	10.0	2.84	ug/L			05/13/24 14:51	2
Carbon disulfide	<3.30	U	10.0	3.30	ug/L			05/13/24 14:51	2
Carbon tetrachloride	<1.79	U	10.0	1.79	ug/L			05/13/24 14:51	2
Chlorobenzene	<0.910	U	2.00	0.910	ug/L			05/13/24 14:51	2
Chlorodibromomethane	<1.09	U	10.0	1.09	ug/L			05/13/24 14:51	2
Chloroethane	<3.97	U	20.0	3.97	ug/L			05/13/24 14:51	2
Chloroform	<0.928	U	2.00	0.928	ug/L			05/13/24 14:51	2
Chloromethane	<4.07	U	20.0	4.07	ug/L			05/13/24 14:51	2
Chloroprene	<1.20	U	10.0	1.20	ug/L			05/13/24 14:51	2
cis-1,2-Dichloroethene	<0.914	U	2.00	0.914	ug/L			05/13/24 14:51	2
cis-1,3-Dichloropropene	<2.13	U	10.0	2.13	ug/L			05/13/24 14:51	2
Cumene (isopropylbenzene)	<1.18	U	2.00	1.18	ug/L			05/13/24 14:51	2
Cyclohexane	<2.57	U	10.0	2.57	ug/L			05/13/24 14:51	2
Dibromomethane	<0.714	U	2.00	0.714	ug/L			05/13/24 14:51	2
Dichlorodifluoromethane	<1.57	U	2.00	1.57	ug/L			05/13/24 14:51	2
Ethyl methacrylate	<2.24	U	10.0	2.24	ug/L			05/13/24 14:51	2
Ethylbenzene	<0.770	U	2.00	0.770	ug/L			05/13/24 14:51	2
Hexane	<1.03	U	10.0	1.03	ug/L			05/13/24 14:51	2
Iodomethane	<13.0	U	40.0	13.0	ug/L			05/13/24 14:51	2
Isobutanol	<34.2	U	100	34.2	ug/L			05/13/24 14:51	2
Methacrylonitrile	<5.43	U	20.0	5.43	ug/L			05/13/24 14:51	2
Methyl methacrylate	<4.50	U	20.0	4.50	ug/L			05/13/24 14:51	2
Methyl tert-butyl ether	<2.78	U	10.0	2.78	ug/L			05/13/24 14:51	2
Methylene Chloride	<3.45	U	10.0	3.45	ug/L			05/13/24 14:51	2
Propionitrile	<6.68	U	20.0	6.68	ug/L			05/13/24 14:51	2
Propylbenzene	<0.858	U	2.00	0.858	ug/L			05/13/24 14:51	2
Styrene	<1.24	U	2.00	1.24	ug/L			05/13/24 14:51	2
Tetrachloroethene	<1.31	U	2.00	1.31	ug/L			05/13/24 14:51	2
Toluene	<0.950	U	2.00	0.950	ug/L			05/13/24 14:51	2
trans-1,2-Dichloroethene	<0.736	U	2.00	0.736	ug/L			05/13/24 14:51	2
trans-1,3-Dichloropropene	<2.53	U	10.0	2.53	ug/L			05/13/24 14:51	2
trans-1,4-Dichloro-2-butene	<2.70	U	20.0	2.70	ug/L			05/13/24 14:51	2
Trichloroethene	<3.00	U	10.0	3.00	ug/L			05/13/24 14:51	2
Trichlorofluoromethane	<1.12	U	2.00	1.12	ug/L			05/13/24 14:51	2
Vinyl acetate	<4.28	U	40.0	4.28	ug/L			05/13/24 14:51	2

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.856	U	4.00	0.856	ug/L			05/13/24 14:51	2
Xylenes, Total	<2.48	U	20.0	2.48	ug/L			05/13/24 14:51	2
m,p-Xylenes	<0.00248	U	0.0200	0.00248	mg/L			05/13/24 14:51	2
o-Xylene	<0.00100	U	0.00200	0.00100	mg/L			05/13/24 14:51	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 14:51	2
4-Bromofluorobenzene (Surr)	99		74 - 124		05/13/24 14:51	2
Dibromofluoromethane (Surr)	103		75 - 131		05/13/24 14:51	2
Toluene-d8 (Surr)	101		80 - 120		05/13/24 14:51	2

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<3.67	U	20.0	3.67	ug/L			05/14/24 16:32	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		05/14/24 16:32	2
4-Bromofluorobenzene (Surr)	98		74 - 124		05/14/24 16:32	2
Dibromofluoromethane (Surr)	118		75 - 131		05/14/24 16:32	2
Toluene-d8 (Surr)	99		80 - 120		05/14/24 16:32	2

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,4,5-Trichlorophenol	<0.143	U**	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,4,6-Trichlorophenol	<0.231	U**	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,4-Dichlorophenol	<0.140	U**	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 02:40	1
<b>1,4-Dioxane</b>	<b>2.14</b>		0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>1,4-Dioxane</b>	<b>3.43</b>		0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,4-Dinitrotoluene	<0.205	U**	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,4-Dinitrotoluene	<0.205	U**	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,6-Dinitrotoluene	<0.116	U**	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,6-Dinitrotoluene	<0.116	U**	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Chloronaphthalene	<0.378	U**	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 02:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 02:40	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>3 &amp; 4 Methylphenol</b>	<b>0.143</b>	<b>J</b>	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 02:40	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 00:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 02:40	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 00:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 02:40	1
<b>Acenaphthene</b>	<b>0.170</b>	<b>J</b>	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Acenaphthene</b>	<b>0.299</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:40	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 00:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 02:40	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 00:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 02:40	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 00:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 02:40	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Benzo[a]anthracene</b>	<b>0.0144</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 02:40	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 00:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 02:40	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 00:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 02:40	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 00:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 02:40	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 00:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 02:40	1
<b>Benzyl alcohol</b>	<b>1.68</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Benzyl alcohol</b>	<b>0.793</b>	<b>J I B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 02:40	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 00:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 02:40	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Bis(2-chloroethyl)ether</b>	<b>0.878</b>		0.571	0.214	ug/L		05/14/24 14:30	05/18/24 02:40	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 00:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 02:40	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 00:17	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:40	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 00:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 02:40	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 00:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 02:40	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 00:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:40	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 00:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 02:40	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 00:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 02:40	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 00:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 02:40	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 00:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 02:40	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 00:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 02:40	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Fluorene</b>	<b>0.105</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 02:40	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 00:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 02:40	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 00:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 02:40	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 00:17	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 02:40	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 00:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:40	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:40	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 00:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:40	1
<b>Naphthalene</b>	<b>0.173</b>	<b>J</b>	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Naphthalene</b>	<b>0.314</b>	<b>J **</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 02:40	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 00:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 02:40	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 00:17	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 02:40	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 00:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 02:40	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 00:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 02:40	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 00:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 02:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 00:17	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 02:40	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 02:40	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 00:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 02:40	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 00:17	1
<b>Diphenyl ether</b>	<b>0.117</b>	<b>J</b>	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 02:40	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 00:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 02:40	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 00:17	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:40	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 00:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 02:40	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 00:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 02:40	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 00:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 02:40	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 00:17	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 02:40	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 00:17	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:40	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 00:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 02:40	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 00:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 00:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 02:40	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 00:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 02:40	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 00:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:40	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 00:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:40	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 00:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:40	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 00:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:40	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 00:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:40	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 00:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 02:40	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 00:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 02:40	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 00:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 02:40	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 00:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 02:40	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 00:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 02:40	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 00:17	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 02:40	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 00:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 02:40	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 00:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:40	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 00:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 02:40	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 00:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:40	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 00:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 02:40	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 00:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 02:40	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 00:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 00:17	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 02:40	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 00:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 02:40	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 00:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 02:40	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 00:17	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 02:40	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:17	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:40	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:17	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:40	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 00:17	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 02:40	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 00:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:40	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:17	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:40	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 00:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 02:40	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 00:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 02:40	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 00:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	112		35 - 130	05/10/24 10:20	05/11/24 00:17	1
2,4,6-Tribromophenol (Surr)	140	S1+	35 - 130	05/14/24 14:30	05/18/24 02:40	1
2-Fluorobiphenyl	77		43 - 130	05/10/24 10:20	05/11/24 00:17	1
2-Fluorobiphenyl	88		43 - 130	05/14/24 14:30	05/18/24 02:40	1
2-Fluorophenol (Surr)	84		19 - 120	05/10/24 10:20	05/11/24 00:17	1
2-Fluorophenol (Surr)	113		19 - 120	05/14/24 14:30	05/18/24 02:40	1
Nitrobenzene-d5 (Surr)	149	S1+	37 - 133	05/10/24 10:20	05/11/24 00:17	1
Nitrobenzene-d5 (Surr)	149	S1+	37 - 133	05/14/24 14:30	05/18/24 02:40	1
Phenol-d5 (Surr)	54		8 - 124	05/10/24 10:20	05/11/24 00:17	1
Phenol-d5 (Surr)	84		8 - 124	05/14/24 14:30	05/18/24 02:40	1
p-Terphenyl-d14	70		47 - 130	05/10/24 10:20	05/11/24 00:17	1
p-Terphenyl-d14	72		47 - 130	05/14/24 14:30	05/18/24 02:40	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 03:43	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	116		35 - 130	05/10/24 10:20	05/15/24 00:22	1
2-Fluorobiphenyl	87		43 - 130	05/10/24 10:20	05/15/24 00:22	1
2-Fluorophenol (Surr)	80		19 - 120	05/10/24 10:20	05/15/24 00:22	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

**Date Collected: 05/07/24 11:34**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA2 (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	157	S1+	37 - 133	05/10/24 10:20	05/15/24 00:22	1
Phenol-d5 (Surr)	46		8 - 124	05/10/24 10:20	05/15/24 00:22	1
p-Terphenyl-d14	66		47 - 130	05/10/24 10:20	05/15/24 00:22	1

**Client Sample ID: TB-02 (050724)**

**Lab Sample ID: 860-73918-3**

**Date Collected: 05/07/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 09:44	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 09:44	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 09:44	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 09:44	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 09:44	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 09:44	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:44	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 09:44	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 09:44	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 09:44	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 09:44	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 09:44	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 09:44	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 09:44	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 09:44	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 09:44	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 09:44	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 09:44	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 09:44	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 09:44	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 09:44	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 09:44	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 09:44	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 09:44	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 09:44	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 09:44	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 09:44	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 09:44	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 09:44	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 09:44	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 09:44	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 09:44	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 09:44	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 09:44	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 09:44	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 09:44	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 09:44	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 09:44	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: TB-02 (050724)**

**Lab Sample ID: 860-73918-3**

**Date Collected: 05/07/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 09:44	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 09:44	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 09:44	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 09:44	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 09:44	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 09:44	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 09:44	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 09:44	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 09:44	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 09:44	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 09:44	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 09:44	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 09:44	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 09:44	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 09:44	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 09:44	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 09:44	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 09:44	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 09:44	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 09:44	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 09:44	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 09:44	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 09:44	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 09:44	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 09:44	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 09:44	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 09:44	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/13/24 09:44	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/13/24 09:44	1
Dibromofluoromethane (Surr)	100		75 - 131		05/13/24 09:44	1
Toluene-d8 (Surr)	100		80 - 120		05/13/24 09:44	1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 16:53	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		05/14/24 16:53	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/14/24 16:53	1
Dibromofluoromethane (Surr)	118		75 - 131		05/14/24 16:53	1
Toluene-d8 (Surr)	101		80 - 120		05/14/24 16:53	1

# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-73918-1	MW-47	99	101	100	101
860-73918-1 - RA	MW-47	105	97	112	100
860-73918-1 MS	MW-47	95	101	99	101
860-73918-2	MW-43	99	99	103	101
860-73918-2 - RA	MW-43	105	98	118	99
860-73918-3	TB-02 (050724)	100	99	100	100
860-73918-3 - RA	TB-02 (050724)	112	98	118	101
880-43280-A-17 MSD	Matrix Spike Duplicate	100	101	109	100
880-43280-C-17 MS	Matrix Spike	97	100	108	99
LCS 860-159779/3	Lab Control Sample	95	99	100	99
LCS 860-160047/3	Lab Control Sample	100	101	110	101
LCSD 860-159779/4	Lab Control Sample Dup	95	99	98	100
LCSD 860-160047/4	Lab Control Sample Dup	98	100	109	100
MB 860-159779/9	Method Blank	99	100	99	101
MB 860-160047/10	Method Blank	102	99	113	100

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-73918-1	MW-47	147 S1+	118	84	176 S1+	52	95
860-73918-1 - RA2	MW-47	145 S1+	126	80	187 S1+	46	94
860-73918-1	MW-47	150 S1+	142 S1+	124 S1+	165 S1+	90	135 S1+
860-73918-1 - DL	MW-47	127	116	115	139 S1+	76	125
860-73918-2	MW-43	112	77	84	149 S1+	54	70
860-73918-2 - RA2	MW-43	116	87	80	157 S1+	46	66
860-73918-2	MW-43	140 S1+	88	113	149 S1+	84	72
LCS 860-159586/2-A	Lab Control Sample	164 S1+	124	83	199 S1+	56	110
LCS 860-159586/4-A	Lab Control Sample	138 S1+	111	80	184 S1+	56	105
LCS 860-160172/2-A	Lab Control Sample	153 S1+	130	93	206 S1+	59	124
LCS 860-160172/4-A	Lab Control Sample	149 S1+	126	83	185 S1+	56	124
LCSD 860-159586/3-A	Lab Control Sample Dup	145 S1+	107	83	182 S1+	53	104
LCSD 860-159586/5-A	Lab Control Sample Dup	148 S1+	117	66	176 S1+	45	113
LCSD 860-160172/3-A	Lab Control Sample Dup	162 S1+	136 S1+	98	211 S1+	61	121
LCSD 860-160172/5-A	Lab Control Sample Dup	163 S1+	147 S1+	84	204 S1+	57	127
MB 860-159586/1-A	Method Blank	154 S1+	122	77	178 S1+	50	111
MB 860-160172/1-A	Method Blank	134 S1+	117	78	171 S1+	33	121

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol (Surr)  
 NBZ = Nitrobenzene-d5 (Surr)

# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS  
PHL = Phenol-d5 (Surr)  
TPHd14 = p-Terphenyl-d14

Job ID: 860-73918-1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-159779/9**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 09:23	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 09:23	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 09:23	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 09:23	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 09:23	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 09:23	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:23	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 09:23	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 09:23	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 09:23	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 09:23	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 09:23	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 09:23	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 09:23	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 09:23	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 09:23	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 09:23	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 09:23	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 09:23	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 09:23	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 09:23	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 09:23	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 09:23	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 09:23	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 09:23	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 09:23	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 09:23	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 09:23	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 09:23	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 09:23	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 09:23	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 09:23	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 09:23	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 09:23	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 09:23	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 09:23	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 09:23	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 09:23	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 09:23	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 09:23	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 09:23	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 09:23	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 09:23	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 09:23	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 09:23	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 09:23	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 09:23	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-159779/9**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 09:23	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 09:23	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 09:23	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 09:23	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 09:23	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 09:23	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 09:23	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 09:23	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 09:23	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/13/24 09:23	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 09:23	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 09:23	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 09:23	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 09:23	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 09:23	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 09:23	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 09:23	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 09:23	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 09:23	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 09:23	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 09:23	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/13/24 09:23	1
Dibromofluoromethane (Surr)	99		75 - 131		05/13/24 09:23	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 09:23	1

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.37		ug/L		109	72 - 125
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.59		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.13		ug/L		100	60 - 140
1,1,2-Trichloroethane	50.0	51.82		ug/L		104	75 - 130
1,1-Dichloroethane	50.0	50.69		ug/L		101	71 - 130
1,1-Dichloroethene	50.0	48.83		ug/L		98	50 - 150
1,2,3-Trichloropropane	50.0	55.10		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	50.0	52.93		ug/L		106	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	58.12		ug/L		116	59 - 125
1,2-Dibromoethane	50.0	53.71		ug/L		107	73 - 125
1,2-Dichloroethane	50.0	49.27		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	53.43		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	52.33		ug/L		105	60 - 140
1,3-Butadiene	50.0	50.94		ug/L		102	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	52.69		ug/L		105	70 - 130
2-Butanone (MEK)	250	255.2		ug/L		102	60 - 140
2-Hexanone (MBK)	250	266.4		ug/L		107	60 - 140
2-Propanol	500	448.0		ug/L		90	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.75		ug/L		86	70 - 130
4-Methyl-2-pentanone	250	260.1		ug/L		104	60 - 140
Acetone	250	233.1		ug/L		93	60 - 140
Acetonitrile	500	456.3		ug/L		91	60 - 140
Acrolein	250	200.7		ug/L		80	60 - 140
Acrylonitrile	500	481.4		ug/L		96	60 - 140
alpha-Chlorotoluene	50.0	56.22		ug/L		112	75 - 125
Benzene	50.0	53.62		ug/L		107	75 - 125
Bromodichloromethane	50.0	53.78		ug/L		108	75 - 125
Bromoform	50.0	57.06		ug/L		114	70 - 130
Bromomethane	50.0	46.33		ug/L		93	60 - 140
Carbon disulfide	50.0	53.46		ug/L		107	60 - 140
Carbon tetrachloride	50.0	54.20		ug/L		108	70 - 125
Chlorobenzene	50.0	52.76		ug/L		106	82 - 135
Chlorodibromomethane	50.0	56.05		ug/L		112	73 - 125
Chloroethane	50.0	47.82		ug/L		96	60 - 140
Chloroform	50.0	51.43		ug/L		103	70 - 121
Chloromethane	50.0	50.47		ug/L		101	60 - 140
Chloroprene	50.0	50.33		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	52.40		ug/L		105	75 - 125
cis-1,3-Dichloropropene	50.0	54.21		ug/L		108	74 - 125
Cumene (isopropylbenzene)	50.0	53.42		ug/L		107	75 - 125
Cyclohexane	50.0	48.50		ug/L		97	70 - 130
Dibromomethane	50.0	50.81		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	53.67		ug/L		107	50 - 150
Ethyl methacrylate	50.0	53.45		ug/L		107	70 - 130
Ethylbenzene	50.0	54.03		ug/L		108	75 - 125
Hexane	50.0	51.58		ug/L		103	72 - 125
Iodomethane	50.0	43.48		ug/L		87	75 - 125
Isobutanol	1240	1307		ug/L		105	60 - 140
Methacrylonitrile	500	515.6		ug/L		103	70 - 130
Methyl methacrylate	100	108.6		ug/L		109	70 - 130
Methyl tert-butyl ether	50.0	49.06		ug/L		98	65 - 135
Methylene Chloride	50.0	48.78		ug/L		98	71 - 125
Propionitrile	500	523.1		ug/L		105	70 - 130
Propylbenzene	50.0	52.48		ug/L		105	75 - 125
Styrene	50.0	54.00		ug/L		108	75 - 125
Tetrachloroethene	50.0	55.96		ug/L		112	71 - 125
Tetrahydrofuran	100	<1.83	U *-	ug/L		0	75 - 125
Toluene	50.0	53.17		ug/L		106	75 - 130
trans-1,2-Dichloroethene	50.0	52.76		ug/L		106	75 - 125
trans-1,3-Dichloropropene	50.0	54.66		ug/L		109	66 - 125
trans-1,4-Dichloro-2-butene	50.0	56.10		ug/L		112	70 - 130
Trichloroethene	50.0	53.08		ug/L		106	75 - 135
Trichlorofluoromethane	50.0	52.26		ug/L		105	60 - 140

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	250.2		ug/L		100	60 - 140
Vinyl chloride	50.0	49.78		ug/L		100	60 - 140
Xylenes, Total	100	106.4		ug/L		106	75 - 125
m,p-Xylenes	0.0500	0.05329		mg/L		107	75 - 125
o-Xylene	0.0500	0.05313		mg/L		106	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: LCSD 860-159779/4**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	57.03		ug/L		114	72 - 125	5	25
1,1,1-Trichloroethane	50.0	56.72		ug/L		113	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	55.40		ug/L		111	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.61		ug/L		107	60 - 140	7	25
1,1,2-Trichloroethane	50.0	54.29		ug/L		109	75 - 130	5	25
1,1-Dichloroethane	50.0	52.65		ug/L		105	71 - 130	4	25
1,1-Dichloroethene	50.0	50.70		ug/L		101	50 - 150	4	25
1,2,3-Trichloropropane	50.0	59.06		ug/L		118	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	57.38		ug/L		115	75 - 125	8	25
1,2-Dibromo-3-Chloropropane	50.0	61.69		ug/L		123	59 - 125	6	25
1,2-Dibromoethane	50.0	55.66		ug/L		111	73 - 125	4	25
1,2-Dichloroethane	50.0	50.14		ug/L		100	72 - 130	2	25
1,2-Dichloropropane	50.0	53.85		ug/L		108	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	56.40		ug/L		113	60 - 140	7	25
1,3-Butadiene	50.0	53.51		ug/L		107	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	56.76		ug/L		114	70 - 130	7	25
2-Butanone (MEK)	250	271.0		ug/L		108	60 - 140	6	25
2-Hexanone (MBK)	250	273.3		ug/L		109	60 - 140	3	25
2-Propanol	500	486.1		ug/L		97	70 - 120	8	25
3-Chloropropene (Allyl Chloride)	50.0	48.58		ug/L		97	70 - 130	13	25
4-Methyl-2-pentanone	250	262.4		ug/L		105	60 - 140	1	25
Acetone	250	244.8		ug/L		98	60 - 140	5	25
Acetonitrile	500	473.9		ug/L		95	60 - 140	4	25
Acrolein	250	205.8		ug/L		82	60 - 140	3	25
Acrylonitrile	500	489.2		ug/L		98	60 - 140	2	25
alpha-Chlorotoluene	50.0	58.93		ug/L		118	75 - 125	5	25
Benzene	50.0	54.89		ug/L		110	75 - 125	2	25
Bromodichloromethane	50.0	54.09		ug/L		108	75 - 125	1	25
Bromoform	50.0	58.40		ug/L		117	70 - 130	2	25
Bromomethane	50.0	47.80		ug/L		96	60 - 140	3	25
Carbon disulfide	50.0	55.34		ug/L		111	60 - 140	3	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-159779/4**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	59.76		ug/L		120	70 - 125	10	25
Chlorobenzene	50.0	55.03		ug/L		110	82 - 135	4	25
Chlorodibromomethane	50.0	58.21		ug/L		116	73 - 125	4	25
Chloroethane	50.0	47.65		ug/L		95	60 - 140	0	25
Chloroform	50.0	52.62		ug/L		105	70 - 121	2	25
Chloromethane	50.0	51.42		ug/L		103	60 - 140	2	25
Chloroprene	50.0	50.87		ug/L		102	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	53.58		ug/L		107	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	55.39		ug/L		111	74 - 125	2	25
Cumene (isopropylbenzene)	50.0	57.03		ug/L		114	75 - 125	7	25
Cyclohexane	50.0	51.44		ug/L		103	70 - 130	6	25
Dibromomethane	50.0	53.32		ug/L		107	69 - 127	5	25
Dichlorodifluoromethane	50.0	59.33		ug/L		119	50 - 150	10	25
Ethyl methacrylate	50.0	56.46		ug/L		113	70 - 130	5	25
Ethylbenzene	50.0	56.83		ug/L		114	75 - 125	5	25
Hexane	50.0	55.40		ug/L		111	72 - 125	7	25
Iodomethane	50.0	47.27		ug/L		95	75 - 125	8	25
Isobutanol	1240	1430		ug/L		115	60 - 140	9	25
Methacrylonitrile	500	522.5		ug/L		105	70 - 130	1	25
Methyl methacrylate	100	108.5		ug/L		109	70 - 130	0	25
Methyl tert-butyl ether	50.0	50.89		ug/L		102	65 - 135	4	25
Methylene Chloride	50.0	48.54		ug/L		97	71 - 125	1	25
Propionitrile	500	554.1		ug/L		111	70 - 130	6	25
Propylbenzene	50.0	57.46		ug/L		115	75 - 125	9	25
Styrene	50.0	56.10		ug/L		112	75 - 125	4	25
Tetrachloroethene	50.0	59.90		ug/L		120	71 - 125	7	25
Tetrahydrofuran	100	<1.83	U *	ug/L		0	75 - 125	NC	25
Toluene	50.0	55.73		ug/L		111	75 - 130	5	25
trans-1,2-Dichloroethene	50.0	54.29		ug/L		109	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	57.36		ug/L		115	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	57.60		ug/L		115	70 - 130	3	25
Trichloroethene	50.0	55.58		ug/L		111	75 - 135	5	25
Trichlorofluoromethane	50.0	55.95		ug/L		112	60 - 140	7	25
Vinyl acetate	250	244.6		ug/L		98	60 - 140	2	25
Vinyl chloride	50.0	53.21		ug/L		106	60 - 140	7	25
Xylenes, Total	100	112.3		ug/L		112	75 - 125	5	25
m,p-Xylenes	0.0500	0.05641		mg/L		113	75 - 125	6	25
o-Xylene	0.0500	0.05586		mg/L		112	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	100		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73918-1 MS**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: MW-47**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	55.13		ug/L		110	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	50.05		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	52.40		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	34.40		ug/L		69	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.72		ug/L		103	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.50		ug/L		93	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	37.52		ug/L		75	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	54.78		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	54.49		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	57.32		ug/L		115	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	53.26		ug/L		107	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.83		ug/L		94	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	51.34		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	53.41		ug/L		107	70 - 125
1,3-Butadiene	<0.568	U	50.0	44.01		ug/L		88	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	42.09		ug/L		84	70 - 130
2-Butanone (MEK)	<8.28	U	250	253.5		ug/L		101	60 - 140
2-Hexanone (MBK)	<7.45	U	250	258.0		ug/L		103	60 - 140
2-Propanol	<5.23	U	500	476.3		ug/L		95	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	37.36		ug/L		75	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	249.4		ug/L		100	60 - 140
Acetone	<3.07	U	250	233.1		ug/L		93	60 - 140
Acetonitrile	<14.6	U	500	425.8		ug/L		85	60 - 140
Acrolein	<11.1	U	250	150.8		ug/L		60	50 - 150
Acrylonitrile	<14.3	U	500	450.6		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	55.17		ug/L		110	70 - 130
Benzene	<0.460	U	50.0	51.06		ug/L		102	66 - 142
Bromodichloromethane	<0.552	U	50.0	52.47		ug/L		105	75 - 125
Bromoform	<0.633	U	50.0	56.17		ug/L		112	75 - 125
Bromomethane	<1.42	U	50.0	41.98		ug/L		84	60 - 140
Carbon disulfide	<1.65	U	50.0	36.96		ug/L		74	60 - 140
Carbon tetrachloride	<0.896	U	50.0	50.60		ug/L		101	62 - 125
Chlorobenzene	<0.455	U	50.0	52.67		ug/L		105	60 - 133
Chlorodibromomethane	<0.547	U	50.0	55.86		ug/L		112	73 - 125
Chloroethane	<1.98	U	50.0	42.88		ug/L		86	60 - 140
Chloroform	<0.464	U	50.0	48.63		ug/L		97	70 - 130
Chloromethane	<2.04	U	50.0	44.07		ug/L		88	60 - 140
Chloroprene	<0.598	U	50.0	44.51		ug/L		89	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	49.93		ug/L		100	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	54.30		ug/L		109	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	54.56		ug/L		109	75 - 125
Cyclohexane	<1.29	U	50.0	38.14		ug/L		76	70 - 130
Dibromomethane	<0.357	U	50.0	50.63		ug/L		101	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	43.16		ug/L		86	70 - 130
Ethyl methacrylate	<1.12	U	50.0	53.74		ug/L		107	70 - 130
Ethylbenzene	<0.385	U	50.0	54.37		ug/L		109	75 - 125
Hexane	<0.517	U F1	50.0	32.68	F1	ug/L		65	72 - 125
Iodomethane	<6.52	U F1	50.0	36.91	F1	ug/L		74	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73918-1 MS**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: MW-47**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Isobutanol	<17.1	U	1240	1390		ug/L		112	60 - 140
Methacrylonitrile	<2.72	U	500	490.7		ug/L		98	70 - 130
Methyl methacrylate	<2.25	U	100	103.6		ug/L		104	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.68		ug/L		93	65 - 135
Methylene Chloride	<1.73	U	50.0	41.57		ug/L		83	75 - 125
Propionitrile	<3.34	U	500	517.2		ug/L		103	70 - 130
Propylbenzene	<0.429	U	50.0	53.86		ug/L		108	75 - 125
Styrene	<0.619	U	50.0	54.09		ug/L		108	75 - 125
Tetrachloroethene	<0.655	U	50.0	55.55		ug/L		111	71 - 125
Tetrahydrofuran	<1.83	U * - F1	100	<1.83	U F1	ug/L		0	75 - 125
Toluene	<0.475	U	50.0	52.57		ug/L		105	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	45.75		ug/L		92	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	54.24		ug/L		108	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	53.41		ug/L		107	70 - 130
Trichloroethene	<1.50	U	50.0	51.75		ug/L		104	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	45.74		ug/L		91	60 - 140
Vinyl acetate	<2.14	U	250	233.6		ug/L		93	60 - 140
Vinyl chloride	<0.428	U	50.0	44.82		ug/L		90	60 - 140
Xylenes, Total	<1.24	U	100	107.7		ug/L		108	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05378		mg/L		108	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05391		mg/L		108	75 - 125

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 11:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 11:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 11:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 11:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 11:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 11:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 11:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 11:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 11:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 11:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 11:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 11:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 11:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 11:08	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 11:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 11:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 11:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 11:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 11:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 11:08	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 11:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 11:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 11:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 11:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 11:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 11:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 11:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 11:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 11:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 11:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 11:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 11:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 11:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 11:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 11:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 11:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 11:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 11:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 11:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 11:08	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 11:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 11:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 11:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 11:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 11:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 11:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 11:08	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 11:08	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 11:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 11:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 11:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 11:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 11:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 11:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 11:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 11:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 11:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 11:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 11:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 11:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 11:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 11:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 11:08	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 11:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 11:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 11:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 11:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 11:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 11:08	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 11:08	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 11:08	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 11:08	1

**Lab Sample ID: LCS 860-160047/3**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	50.45		ug/L		101	72 - 125
1,1,1-Trichloroethane	50.0	60.14		ug/L		120	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.43		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.04		ug/L		116	60 - 140
1,1,2-Trichloroethane	50.0	51.18		ug/L		102	75 - 130
1,1-Dichloroethane	50.0	55.25		ug/L		111	71 - 130
1,1-Dichloroethene	50.0	49.54		ug/L		99	50 - 150
1,2,3-Trichloropropane	50.0	49.86		ug/L		100	75 - 125
1,2,4-Trimethylbenzene	50.0	51.19		ug/L		102	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	36.73		ug/L		73	59 - 125
1,2-Dibromoethane	50.0	50.27		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	49.52		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	52.60		ug/L		105	74 - 125
1,3,5-Trimethylbenzene	50.0	52.93		ug/L		106	60 - 140
1,3-Butadiene	50.0	58.55		ug/L		117	60 - 150
2,2,4-Trimethylpentane	50.0	52.67		ug/L		105	70 - 130
2-Butanone (MEK)	250	262.7		ug/L		105	60 - 140
2-Hexanone (MBK)	250	223.8		ug/L		90	60 - 140
2-Propanol	500	441.9		ug/L		88	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	53.67		ug/L		107	70 - 130
4-Methyl-2-pentanone	250	229.5		ug/L		92	60 - 140
Acetone	250	249.7		ug/L		100	60 - 140
Acetonitrile	500	500.8		ug/L		100	60 - 140
Acrylonitrile	500	511.9		ug/L		102	60 - 140
alpha-Chlorotoluene	50.0	43.54		ug/L		87	75 - 125
Benzene	50.0	51.82		ug/L		104	75 - 125
Bromodichloromethane	50.0	51.10		ug/L		102	75 - 125
Bromoform	50.0	45.65		ug/L		91	70 - 130
Bromomethane	50.0	62.37		ug/L		125	60 - 140
Carbon disulfide	50.0	53.50		ug/L		107	60 - 140
Carbon tetrachloride	50.0	57.46		ug/L		115	70 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160047/3**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	52.47		ug/L		105	82 - 135
Chlorodibromomethane	50.0	49.03		ug/L		98	73 - 125
Chloroethane	50.0	49.99		ug/L		100	60 - 140
Chloroform	50.0	56.76		ug/L		114	70 - 121
Chloromethane	50.0	54.37		ug/L		109	60 - 140
Chloroprene	50.0	57.25		ug/L		114	70 - 130
cis-1,2-Dichloroethene	50.0	55.48		ug/L		111	75 - 125
cis-1,3-Dichloropropene	50.0	50.95		ug/L		102	74 - 125
Cumene (isopropylbenzene)	50.0	52.18		ug/L		104	75 - 125
Cyclohexane	50.0	58.82		ug/L		118	70 - 130
Dibromomethane	50.0	52.16		ug/L		104	69 - 127
Ethyl methacrylate	50.0	45.89		ug/L		92	70 - 130
Ethylbenzene	50.0	52.79		ug/L		106	75 - 125
Hexane	50.0	52.36		ug/L		105	72 - 125
Iodomethane	50.0	55.68		ug/L		111	75 - 125
Isobutanol	1240	1041		ug/L		84	60 - 140
Methacrylonitrile	500	520.6		ug/L		104	70 - 130
Methyl methacrylate	100	94.78		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	50.40		ug/L		101	65 - 135
Methylene Chloride	50.0	52.66		ug/L		105	71 - 125
Propionitrile	500	516.3		ug/L		103	70 - 130
Propylbenzene	50.0	55.19		ug/L		110	75 - 125
Styrene	50.0	51.31		ug/L		103	75 - 125
Tetrachloroethene	50.0	54.22		ug/L		108	71 - 125
Tetrahydrofuran	100	94.08		ug/L		94	75 - 125
Toluene	50.0	52.30		ug/L		105	75 - 130
trans-1,2-Dichloroethene	50.0	55.32		ug/L		111	75 - 125
trans-1,3-Dichloropropene	50.0	48.80		ug/L		98	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.13		ug/L		94	70 - 130
Trichloroethene	50.0	53.29		ug/L		107	75 - 135
Trichlorofluoromethane	50.0	60.28		ug/L		121	60 - 140
Vinyl acetate	250	268.7		ug/L		107	60 - 140
Vinyl chloride	50.0	56.82		ug/L		114	60 - 140
Xylenes, Total	100	103.4		ug/L		103	75 - 125
m,p-Xylenes	0.0500	0.05192		mg/L		104	75 - 125
o-Xylene	0.0500	0.05143		mg/L		103	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
Toluene-d8 (Surr)	101		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160047/4**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	50.0	47.70		ug/L		95	72 - 125	6	25
1,1,1-Trichloroethane	50.0	55.72		ug/L		111	70 - 130	8	25
1,1,2,2-Tetrachloroethane	50.0	46.58		ug/L		93	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.30		ug/L		103	60 - 140	12	25
1,1,2-Trichloroethane	50.0	48.60		ug/L		97	75 - 130	5	25
1,1-Dichloroethane	50.0	51.89		ug/L		104	71 - 130	6	25
1,1-Dichloroethene	50.0	49.12		ug/L		98	50 - 150	1	25
1,2,3-Trichloropropane	50.0	47.52		ug/L		95	75 - 125	5	25
1,2,4-Trimethylbenzene	50.0	47.66		ug/L		95	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	50.0	34.81		ug/L		70	59 - 125	5	25
1,2-Dibromoethane	50.0	48.36		ug/L		97	73 - 125	4	25
1,2-Dichloroethane	50.0	47.25		ug/L		94	72 - 130	5	25
1,2-Dichloropropane	50.0	49.45		ug/L		99	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	49.17		ug/L		98	60 - 140	7	25
1,3-Butadiene	50.0	51.73		ug/L		103	60 - 150	12	25
2,2,4-Trimethylpentane	50.0	47.55		ug/L		95	70 - 130	10	25
2-Butanone (MEK)	250	250.5		ug/L		100	60 - 140	5	25
2-Hexanone (MBK)	250	212.5		ug/L		85	60 - 140	5	25
2-Propanol	500	420.1		ug/L		84	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	50.0	49.83		ug/L		100	70 - 130	7	25
4-Methyl-2-pentanone	250	220.0		ug/L		88	60 - 140	4	25
Acetone	250	242.6		ug/L		97	60 - 140	3	25
Acetonitrile	500	483.9		ug/L		97	60 - 140	3	25
Acrylonitrile	500	494.1		ug/L		99	60 - 140	4	25
alpha-Chlorotoluene	50.0	40.22		ug/L		80	75 - 125	8	25
Benzene	50.0	49.19		ug/L		98	75 - 125	5	25
Bromodichloromethane	50.0	48.60		ug/L		97	75 - 125	5	25
Bromoform	50.0	43.74		ug/L		87	70 - 130	4	25
Bromomethane	50.0	56.59		ug/L		113	60 - 140	10	25
Carbon disulfide	50.0	48.84		ug/L		98	60 - 140	9	25
Carbon tetrachloride	50.0	54.09		ug/L		108	70 - 125	6	25
Chlorobenzene	50.0	49.50		ug/L		99	82 - 135	6	25
Chlorodibromomethane	50.0	47.29		ug/L		95	73 - 125	4	25
Chloroethane	50.0	41.60		ug/L		83	60 - 140	18	25
Chloroform	50.0	53.37		ug/L		107	70 - 121	6	25
Chloromethane	50.0	49.29		ug/L		99	60 - 140	10	25
Chloroprene	50.0	52.33		ug/L		105	70 - 130	9	25
cis-1,2-Dichloroethene	50.0	51.62		ug/L		103	75 - 125	7	25
cis-1,3-Dichloropropene	50.0	48.55		ug/L		97	74 - 125	5	25
Cumene (isopropylbenzene)	50.0	48.45		ug/L		97	75 - 125	7	25
Cyclohexane	50.0	56.93		ug/L		114	70 - 130	3	25
Dibromomethane	50.0	50.24		ug/L		100	69 - 127	4	25
Dichlorodifluoromethane	50.0	72.79		ug/L		146	50 - 150	15	25
Ethyl methacrylate	50.0	44.88		ug/L		90	70 - 130	2	25
Ethylbenzene	50.0	49.44		ug/L		99	75 - 125	7	25
Hexane	50.0	47.46		ug/L		95	72 - 125	10	25
Iodomethane	50.0	52.26		ug/L		105	75 - 125	6	25
Isobutanol	1240	993.4		ug/L		80	60 - 140	5	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160047/4**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methacrylonitrile	500	502.2		ug/L		100	70 - 130	4	25
Methyl methacrylate	100	91.50		ug/L		91	70 - 130	4	25
Methyl tert-butyl ether	50.0	48.99		ug/L		98	65 - 135	3	25
Methylene Chloride	50.0	50.75		ug/L		102	71 - 125	4	25
Propionitrile	500	501.6		ug/L		100	70 - 130	3	25
Propylbenzene	50.0	51.04		ug/L		102	75 - 125	8	25
Styrene	50.0	48.28		ug/L		97	75 - 125	6	25
Tetrachloroethene	50.0	50.26		ug/L		101	71 - 125	8	25
Tetrahydrofuran	100	89.60		ug/L		90	75 - 125	5	25
Toluene	50.0	49.12		ug/L		98	75 - 130	6	25
trans-1,2-Dichloroethene	50.0	51.51		ug/L		103	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	46.58		ug/L		93	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	44.26		ug/L		89	70 - 130	6	25
Trichloroethene	50.0	49.44		ug/L		99	75 - 135	8	25
Trichlorofluoromethane	50.0	53.81		ug/L		108	60 - 140	11	25
Vinyl acetate	250	255.2		ug/L		102	60 - 140	5	25
Vinyl chloride	50.0	51.32		ug/L		103	60 - 140	10	25
Xylenes, Total	100	97.39		ug/L		97	75 - 125	6	25
m,p-Xylenes	0.0500	0.04879		mg/L		98	75 - 125	6	25
o-Xylene	0.0500	0.04860		mg/L		97	75 - 125	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	109		75 - 131
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: 880-43280-A-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U F1	50.0	37.32		ug/L		75	72 - 125	6	25
1,1,1-Trichloroethane	<0.585	U	50.0	41.30		ug/L		83	75 - 125	5	25
1,1,2,2-Tetrachloroethane	<0.470	U F1	50.0	37.72		ug/L		75	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	32.37		ug/L		65	60 - 140	5	25
1,1,2-Trichloroethane	<0.411	U F1	50.0	38.64		ug/L		77	75 - 127	5	25
1,1-Dichloroethane	<0.635	U	50.0	40.24		ug/L		80	72 - 125	5	25
1,1-Dichloroethene	<0.738	U	50.0	31.79		ug/L		64	59 - 172	3	25
1,2,3-Trichloropropane	<0.470	U F1	50.0	38.53		ug/L		77	75 - 125	8	25
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	36.40	F1	ug/L		73	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	<0.671	U F1	50.0	26.48	F1	ug/L		53	59 - 125	4	25
1,2-Dibromoethane	<0.999	U F1	50.0	38.37		ug/L		77	73 - 125	6	25
1,2-Dichloroethane	<0.372	U	50.0	37.57		ug/L		75	68 - 127	7	25
1,2-Dichloropropane	<0.556	U F1	50.0	39.25		ug/L		79	74 - 125	7	25
1,3,5-Trimethylbenzene	<0.411	U F1	50.0	36.27		ug/L		73	70 - 125	6	25
1,3-Butadiene	<0.568	U F1	50.0	<0.568	U F1	ug/L		0	70 - 150	NC	25
2,2,4-Trimethylpentane	<0.500	U F1	50.0	29.49	F1	ug/L		59	70 - 130	6	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-A-17 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	<8.28	U	250	197.4		ug/L		79	60 - 140	6	25
2-Hexanone (MBK)	<7.45	U	250	165.9		ug/L		66	60 - 140	7	25
2-Propanol	<5.23	U F1	500	340.7	F1	ug/L		68	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	<0.597	U F1 F2	50.0	8.058	F1 F2	ug/L		16	70 - 130	29	25
4-Methyl-2-pentanone	<7.49	U	250	172.2		ug/L		69	60 - 140	6	25
Acetone	<3.07	U	250	184.2		ug/L		74	60 - 140	6	25
Acetonitrile	<14.6	U	500	319.9		ug/L		64	60 - 140	3	25
Acrolein	<11.1	U *- F1	250	115.7	F1	ug/L		46	50 - 150	5	25
Acrylonitrile	<14.3	U	500	382.6		ug/L		77	50 - 150	4	25
alpha-Chlorotoluene	<2.26	U F1	50.0	32.31	F1	ug/L		65	70 - 130	8	25
Benzene	<0.460	U	50.0	37.59		ug/L		75	66 - 142	6	25
Bromodichloromethane	<0.552	U F1	50.0	38.05		ug/L		76	75 - 125	5	25
Bromoform	<0.633	U F1	50.0	34.10	F1	ug/L		68	75 - 125	6	25
Bromomethane	<1.42	U	50.0	56.96		ug/L		114	60 - 140	2	25
Carbon disulfide	<1.65	U	50.0	33.34		ug/L		67	60 - 140	3	25
Carbon tetrachloride	<0.896	U	50.0	38.44		ug/L		77	62 - 125	8	25
Chlorobenzene	<0.455	U	50.0	38.68		ug/L		77	60 - 133	6	25
Chlorodibromomethane	<0.547	U F1	50.0	37.37		ug/L		75	73 - 125	7	25
Chloroethane	<1.98	U	50.0	44.98		ug/L		90	60 - 140	3	25
Chloroform	<0.464	U	50.0	41.56		ug/L		83	70 - 130	5	25
Chloromethane	<2.04	U	50.0	44.15		ug/L		88	60 - 140	0	25
Chloroprene	<0.598	U F1 F2	50.0	7.955	F1 F2	ug/L		16	70 - 130	37	25
cis-1,2-Dichloroethene	<0.457	U	50.0	40.12		ug/L		80	75 - 125	5	25
cis-1,3-Dichloropropene	<1.07	U F1	50.0	38.21		ug/L		76	74 - 125	5	25
Cumene (isopropylbenzene)	<0.592	U F1	50.0	35.10	F1	ug/L		70	75 - 125	6	25
Cyclohexane	<1.29	U F1	50.0	35.88		ug/L		72	70 - 130	6	25
Dibromomethane	<0.357	U	50.0	39.55		ug/L		79	69 - 127	5	25
Dichlorodifluoromethane	<0.785	U *+	50.0	41.81		ug/L		84	70 - 130	4	25
Ethyl methacrylate	<1.12	U F1	50.0	35.18		ug/L		70	70 - 130	7	25
Ethylbenzene	<0.385	U F1	50.0	37.07	F1	ug/L		74	75 - 125	5	25
Hexane	<0.517	U F1	50.0	27.68	F1	ug/L		55	72 - 125	3	25
Iodomethane	<6.52	U	50.0	40.77		ug/L		82	75 - 125	3	25
Isobutanol	<17.1	U F1	1250	788.6		ug/L		63	60 - 140	8	25
Methacrylonitrile	<2.72	U	500	394.9		ug/L		79	70 - 130	5	25
Methyl methacrylate	<2.25	U F1	100	71.93		ug/L		72	70 - 130	6	25
Methyl tert-butyl ether	<1.39	U	50.0	38.64		ug/L		77	65 - 135	5	25
Methylene Chloride	<1.73	U F1	50.0	38.47		ug/L		77	75 - 125	5	25
Propionitrile	<3.34	U	500	395.1		ug/L		79	70 - 130	7	25
Propylbenzene	<0.429	U F1	50.0	37.31		ug/L		75	75 - 125	6	25
Styrene	<0.619	U F1	50.0	1.055	F1	ug/L		2	75 - 125	1	25
Tetrachloroethene	<0.655	U F1	50.0	36.49		ug/L		73	71 - 125	6	25
Tetrahydrofuran	<1.83	U F1	100	70.11	F1	ug/L		70	75 - 125	5	25
Toluene	<0.475	U	50.0	37.66		ug/L		75	59 - 139	6	25
trans-1,2-Dichloroethene	<0.368	U F1	50.0	37.71		ug/L		75	75 - 125	4	25
trans-1,3-Dichloropropene	<1.27	U	50.0	36.55		ug/L		73	66 - 125	6	25
trans-1,4-Dichloro-2-butene	<1.35	U F1	50.0	35.33		ug/L		71	70 - 130	6	25
Trichloroethene	<1.50	U	50.0	37.47		ug/L		75	62 - 137	5	25
Trichlorofluoromethane	<0.560	U	50.0	48.68		ug/L		97	60 - 140	1	25
Vinyl acetate	<2.14	U F1	250	<2.14	U F1	ug/L		0	60 - 140	NC	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-A-17 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Vinyl chloride	<0.428	U	50.0	45.41		ug/L		91	60 - 140	2	25
Xylenes, Total	<1.24	U F1	100	73.09	F1	ug/L		73	75 - 125	6	25
m,p-Xylenes	<0.00124	U F1	0.0500	0.03658	F1	mg/L		73	75 - 125	6	25
o-Xylene	<0.000502	U F1	0.0500	0.03651	F1	mg/L		73	75 - 125	6	25
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	100		63 - 144								
4-Bromofluorobenzene (Surr)	101		74 - 124								
Dibromofluoromethane (Surr)	109		75 - 131								
Toluene-d8 (Surr)	100		80 - 120								

**Lab Sample ID: 880-43280-C-17 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
1,1,1,2-Tetrachloroethane	<0.644	U F1	50.0	35.03	F1	ug/L		70	72 - 125		
1,1,1-Trichloroethane	<0.585	U	50.0	39.41		ug/L		79	75 - 125		
1,1,2,2-Tetrachloroethane	<0.470	U F1	50.0	35.32	F1	ug/L		71	74 - 125		
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	30.80		ug/L		62	60 - 140		
1,1,2-Trichloroethane	<0.411	U F1	50.0	36.77	F1	ug/L		74	75 - 127		
1,1-Dichloroethane	<0.635	U	50.0	38.24		ug/L		76	72 - 125		
1,1-Dichloroethene	<0.738	U	50.0	30.90		ug/L		62	59 - 172		
1,2,3-Trichloropropane	<0.470	U F1	50.0	35.65	F1	ug/L		71	75 - 125		
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	34.00	F1	ug/L		68	75 - 125		
1,2-Dibromo-3-Chloropropane	<0.671	U F1	50.0	25.37	F1	ug/L		51	59 - 125		
1,2-Dibromoethane	<0.999	U F1	50.0	36.12	F1	ug/L		72	73 - 125		
1,2-Dichloroethane	<0.372	U	50.0	35.05		ug/L		70	68 - 127		
1,2-Dichloropropane	<0.556	U F1	50.0	36.49	F1	ug/L		73	74 - 125		
1,3,5-Trimethylbenzene	<0.411	U F1	50.0	34.05	F1	ug/L		68	70 - 125		
1,3-Butadiene	<0.568	U F1	50.0	<0.568	U F1	ug/L		0	70 - 150		
2,2,4-Trimethylpentane	<0.500	U F1	50.0	27.82	F1	ug/L		56	70 - 130		
2-Butanone (MEK)	<8.28	U	250	185.9		ug/L		74	60 - 140		
2-Hexanone (MBK)	<7.45	U	250	154.7		ug/L		62	60 - 140		
2-Propanol	<5.23	U F1	500	331.0	F1	ug/L		66	70 - 120		
3-Chloropropene (Allyl Chloride)	<0.597	U F1 F2	50.0	10.75	F1	ug/L		21	70 - 130		
4-Methyl-2-pentanone	<7.49	U	250	162.3		ug/L		65	60 - 140		
Acetone	<3.07	U	250	173.6		ug/L		69	60 - 140		
Acetonitrile	<14.6	U	500	309.1		ug/L		62	60 - 140		
Acrolein	<11.1	U *- F1	250	110.0	F1	ug/L		44	50 - 150		
Acrylonitrile	<14.3	U	500	365.9		ug/L		73	50 - 150		
alpha-Chlorotoluene	<2.26	U F1	50.0	29.95	F1	ug/L		60	70 - 130		
Benzene	<0.460	U	50.0	35.48		ug/L		71	66 - 142		
Bromodichloromethane	<0.552	U F1	50.0	36.33	F1	ug/L		73	75 - 125		
Bromoform	<0.633	U F1	50.0	32.17	F1	ug/L		64	75 - 125		
Bromomethane	<1.42	U	50.0	57.89		ug/L		116	60 - 140		
Carbon disulfide	<1.65	U	50.0	32.20		ug/L		64	60 - 140		
Carbon tetrachloride	<0.896	U	50.0	35.65		ug/L		71	62 - 125		

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-C-17 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
Chlorobenzene	<0.455	U	50.0	36.56		ug/L		73	60 - 133
Chlorodibromomethane	<0.547	U F1	50.0	34.96	F1	ug/L		70	73 - 125
Chloroethane	<1.98	U	50.0	43.81		ug/L		88	60 - 140
Chloroform	<0.464	U	50.0	39.46		ug/L		79	70 - 130
Chloromethane	<2.04	U	50.0	44.05		ug/L		88	60 - 140
Chloroprene	<0.598	U F1 F2	50.0	11.61	F1	ug/L		23	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	38.24		ug/L		76	75 - 125
cis-1,3-Dichloropropene	<1.07	U F1	50.0	36.21	F1	ug/L		72	74 - 125
Cumene (isopropylbenzene)	<0.592	U F1	50.0	33.13	F1	ug/L		66	75 - 125
Cyclohexane	<1.29	U F1	50.0	33.82	F1	ug/L		68	70 - 130
Dibromomethane	<0.357	U	50.0	37.59		ug/L		75	69 - 127
Dichlorodifluoromethane	<0.785	U *+	50.0	43.43		ug/L		87	70 - 130
Ethyl methacrylate	<1.12	U F1	50.0	32.95	F1	ug/L		66	70 - 130
Ethylbenzene	<0.385	U F1	50.0	35.09	F1	ug/L		70	75 - 125
Hexane	<0.517	U F1	50.0	26.98	F1	ug/L		54	72 - 125
Iodomethane	<6.52	U	50.0	39.73		ug/L		79	75 - 125
Isobutanol	<17.1	U F1	1240	730.9	F1	ug/L		59	60 - 140
Methacrylonitrile	<2.72	U	500	373.9		ug/L		75	70 - 130
Methyl methacrylate	<2.25	U F1	100	67.99	F1	ug/L		68	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	36.77		ug/L		74	65 - 135
Methylene Chloride	<1.73	U F1	50.0	36.74	F1	ug/L		73	75 - 125
Propionitrile	<3.34	U	500	369.3		ug/L		74	70 - 130
Propylbenzene	<0.429	U F1	50.0	35.10	F1	ug/L		70	75 - 125
Styrene	<0.619	U F1	50.0	1.047	F1	ug/L		2	75 - 125
Tetrachloroethene	<0.655	U F1	50.0	34.34	F1	ug/L		69	71 - 125
Tetrahydrofuran	<1.83	U F1	100	66.94	F1	ug/L		67	75 - 125
Toluene	<0.475	U	50.0	35.59		ug/L		71	59 - 139
trans-1,2-Dichloroethene	<0.368	U F1	50.0	36.31	F1	ug/L		73	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	34.45		ug/L		69	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U F1	50.0	33.20	F1	ug/L		66	70 - 130
Trichloroethene	<1.50	U	50.0	35.49		ug/L		71	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	49.30		ug/L		99	60 - 140
Vinyl acetate	<2.14	U F1	250	<2.14	U F1	ug/L		0	60 - 140
Vinyl chloride	<0.428	U	50.0	46.21		ug/L		92	60 - 140
Xylenes, Total	<1.24	U F1	100	69.08	F1	ug/L		69	75 - 125
m,p-Xylenes	<0.00124	U F1	0.0500	0.03458	F1	mg/L		69	75 - 125
o-Xylene	<0.000502	U F1	0.0500	0.03450	F1	mg/L		69	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	108		75 - 131
Toluene-d8 (Surr)	99		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 18:51	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 18:51	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 18:51	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzyl alcohol	1.398		1.14	0.600	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 18:51	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 18:51	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 18:51	1

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 18:51	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 18:51	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 18:51	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 18:51	1

Eurofins Houston

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 18:51	1		
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 18:51	1		
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 18:51	1		
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Pronamide	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 18:51	1		

Surrogate	MB	MB	Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/10/24 10:20	05/10/24 18:51	1		
2-Fluorobiphenyl	122		43 - 130	05/10/24 10:20	05/10/24 18:51	1		
2-Fluorophenol (Surr)	77		19 - 120	05/10/24 10:20	05/10/24 18:51	1		
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133	05/10/24 10:20	05/10/24 18:51	1		
Phenol-d5 (Surr)	50		8 - 124	05/10/24 10:20	05/10/24 18:51	1		
p-Terphenyl-d14	111		47 - 130	05/10/24 10:20	05/10/24 18:51	1		

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/13/24 23:29	1		

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,2,4-Trichlorobenzene	2.86	1.729		ug/L		61	32 - 130	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.86	1.665		ug/L		58	32 - 130
1,3-Dichlorobenzene	2.86	1.534		ug/L		54	26 - 130
1,4-Dichlorobenzene	2.86	1.596		ug/L		56	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.594	J	ug/L		91	10 - 173
2,4,5-Trichlorophenol	2.86	3.719		ug/L		130	35 - 130
2,4,6-Trichlorophenol	2.86	3.351		ug/L		117	52 - 129
2,4-Dichlorophenol	2.86	2.943		ug/L		103	53 - 122
2,4-Dimethylphenol	2.86	2.510		ug/L		88	42 - 120
1,4-Dioxane	2.86	1.133		ug/L		40	27 - 130
2,4-Dinitrophenol	2.86	2.576	J	ug/L		90	12 - 173
2,4-Dinitrotoluene	2.86	4.404	*+	ug/L		154	48 - 127
2,6-Dinitrotoluene	2.86	4.576	*+	ug/L		160	68 - 137
2-Chloronaphthalene	2.86	2.325		ug/L		81	10 - 130
2-Methylnaphthalene	2.86	2.260		ug/L		79	25 - 175
2-Methylphenol	2.86	2.511		ug/L		88	14 - 176
2-Nitroaniline	2.86	3.430		ug/L		120	59 - 130
2-Nitrophenol	2.86	4.232		ug/L		148	45 - 167
3 & 4 Methylphenol	2.86	2.085		ug/L		73	22 - 130
3-Nitroaniline	2.86	2.009		ug/L		70	30 - 130
4,6-Dinitro-2-methylphenol	2.86	3.032		ug/L		106	10 - 130
4-Bromophenyl phenyl ether	2.86	2.624		ug/L		92	65 - 120
4-Chloro-3-methylphenol	2.86	3.249		ug/L		114	41 - 128
4-Chloroaniline	2.86	1.660		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.424		ug/L		85	38 - 145
4-Nitroaniline	2.86	2.226		ug/L		78	42 - 125
Acenaphthene	2.86	2.434		ug/L		85	60 - 132
Acenaphthylene	2.86	2.669		ug/L		93	54 - 126
Aniline	2.86	1.292		ug/L		45	15 - 130
Anthracene	2.86	2.450		ug/L		86	43 - 135
Benzo[a]anthracene	2.86	3.143		ug/L		110	42 - 133
Benzo[a]pyrene	2.86	2.715		ug/L		95	32 - 148
Benzo[b]fluoranthene	2.86	3.586		ug/L		126	42 - 140
Benzo[g,h,i]perylene	2.86	2.821		ug/L		99	25 - 195
Benzo[k]fluoranthene	2.86	3.234		ug/L		113	25 - 146
Benzyl alcohol	2.86	3.602		ug/L		126	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.980		ug/L		104	49 - 165
Bis(2-chloroethyl)ether	2.86	2.642		ug/L		92	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	4.994	*+	ug/L		175	29 - 137
Butyl benzyl phthalate	2.86	4.853	*+	ug/L		170	28 - 130
Chrysene	2.86	2.695		ug/L		94	47 - 130
Dibenz(a,h)anthracene	2.86	2.945		ug/L		103	32 - 200
Dibenzofuran	2.86	2.640		ug/L		92	48 - 130
Diethyl phthalate	2.86	3.390		ug/L		119	53 - 120
Dimethyl phthalate	2.86	3.826	*+	ug/L		134	67 - 120
Di-n-butyl phthalate	2.86	3.728	*+	ug/L		130	8 - 120
Di-n-octyl phthalate	2.86	4.953		ug/L		173	19 - 200
Fluoranthene	2.86	2.673		ug/L		94	43 - 130
Fluorene	2.86	2.434		ug/L		85	70 - 130
Hexachlorobenzene	2.86	2.192		ug/L		77	8 - 142

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	2.86	1.382		ug/L		48	10 - 130
Hexachlorocyclopentadiene	2.86	1.514		ug/L		53	10 - 130
Hexachloroethane	2.86	1.639		ug/L		57	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	3.239		ug/L		113	29 - 151
Isophorone	2.86	3.718		ug/L		130	47 - 180
Naphthalene	2.86	2.331		ug/L		82	36 - 120
Nitrobenzene	2.86	3.810	*+	ug/L		133	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.919		ug/L		102	14 - 198
N-Nitrosodiphenylamine	2.86	3.086		ug/L		108	40 - 127
Pentachlorophenol	2.86	3.975		ug/L		139	38 - 152
Phenanthrene	2.86	2.560		ug/L		90	65 - 120
Phenol	2.86	1.452	J	ug/L		51	17 - 120
Pyrene	2.86	2.808		ug/L		98	70 - 130
Pyridine	2.86	<1.44	U	ug/L		40	1 - 126
N-Nitro-o-toluidine	2.86	2.259		ug/L		79	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.893		ug/L		101	33 - 132
Acetophenone	2.86	2.569		ug/L		90	58 - 130
N-Nitrosopiperidine	2.86	3.630		ug/L		127	54 - 130
Pentachlorobenzene	2.86	1.883		ug/L		66	47 - 130
Diphenyl ether	2.86	2.504		ug/L		88	61 - 130
1,1'-Biphenyl	2.86	2.247		ug/L		79	52 - 130
4-Aminobiphenyl	2.86	1.814		ug/L		63	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.642		ug/L		57	52 - 130
1,3,5-Trinitrobenzene	2.86	5.122	*+	ug/L		179	42 - 130
1,3-Dinitrobenzene	2.86	4.587	*+	ug/L		161	54 - 130
1,4-Naphthoquinone	2.86	4.237	*+	ug/L		148	34 - 130
1-Naphthylamine	2.86	0.5008	J *-	ug/L		18	40 - 130
2,6-Dichlorophenol	2.86	3.087		ug/L		108	40 - 130
2-Acetylaminofluorene	2.86	7.517	*+	ug/L		263	50 - 150
2-Chlorophenol	2.86	2.818		ug/L		99	36 - 120
2-Naphthylamine	2.86	0.7266	*-	ug/L		25	30 - 130
2-Picoline	2.86	1.341		ug/L		47	22 - 130
2-Toluidine	2.86	1.404		ug/L		49	30 - 130
3,3'-Dichlorobenzidine	2.86	1.984		ug/L		69	20 - 150
3,3'-Dimethylbenzidine	2.86	0.3426	J *-	ug/L		12	30 - 130
3-Methylcholanthrene	2.86	2.480		ug/L		87	53 - 130
4-Nitroquinoline-1-oxide	2.86	4.728	*+	ug/L		165	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	3.320		ug/L		116	63 - 130
alpha,alpha-Dimethylphenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	2.937	*+	ug/L		206	69 - 130
Aramite Peak 2	1.43	2.819	*+	ug/L		197	65 - 130
Diallate Peak 1	2.11	2.333		ug/L		110	69 - 130
Diallate Peak 2	0.743	0.8214		ug/L		111	67 - 130
Ethyl methanesulfonate	2.86	2.051		ug/L		72	54 - 130
Hexachloropropene	2.86	1.503		ug/L		53	37 - 130
Isosafrole Peak 1	0.457	0.3579	J	ug/L		78	54 - 130
Isosafrole Peak 2	2.40	2.071		ug/L		86	62 - 130
Methyl methanesulfonate	2.86	1.182		ug/L		41	30 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	2.86	2.431		ug/L		85	54 - 130
N-Nitrosodimethylamine	2.86	1.021		ug/L		36	28 - 126
N-Nitrosodi-n-butylamine	2.86	3.706		ug/L		130	58 - 130
N-Nitrosomethylethylamine	2.86	1.890		ug/L		66	45 - 130
N-Nitrosomorpholine	2.86	1.724		ug/L		60	37 - 130
N-Nitrosopyrrolidine	2.86	1.881		ug/L		66	47 - 130
p-Dimethylamino azobenzene	2.86	2.981		ug/L		104	61 - 130
Pentachloronitrobenzene	2.86	4.674	*+	ug/L		164	56 - 130
Phenacetin	2.86	4.170	*+	ug/L		146	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	4.258	*+	ug/L		149	70 - 130
Safrole, Total	2.86	3.083		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130
2-Fluorobiphenyl	124		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	199	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	110		47 - 130

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	2.86	2.816		ug/L		99	58 - 130

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	7.744		ug/L		136	45 - 138
Dinoseb	5.71	9.305	*+	ug/L		163	49 - 130
Disulfoton	5.71	2.388		ug/L		42	38 - 134
Ethyl Parathion	5.71	10.01	*+	ug/L		175	25 - 173
Famphur	2.86	3.957		ug/L		138	43 - 142
Methapyrilene	5.71	8.801		ug/L		154	70 - 183
Methyl parathion	5.71	9.586	*+	ug/L		168	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.638		ug/L		92	43 - 130
Phorate	5.71	5.870		ug/L		103	37 - 140
Sulfotepp	5.71	6.014		ug/L		105	28 - 158
Thionazin	2.86	3.333		ug/L		117	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	138	S1+	35 - 130
2-Fluorobiphenyl	111		43 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	80		19 - 120
Nitrobenzene-d5 (Surr)	184	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	105		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
1,2,4-Trichlorobenzene	2.86	1.587		ug/L		56	32 - 130	9	30	
1,2-Dichlorobenzene	2.86	1.517		ug/L		53	32 - 130	9	30	
1,3-Dichlorobenzene	2.86	1.417		ug/L		50	26 - 130	8	30	
1,4-Dichlorobenzene	2.86	1.473		ug/L		52	28 - 130	8	30	
2,2'-oxybis[1-chloropropane]	2.86	2.385	J	ug/L		83	10 - 173	8	30	
2,4,5-Trichlorophenol	2.86	3.263		ug/L		114	35 - 130	13	30	
2,4,6-Trichlorophenol	2.86	2.890		ug/L		101	52 - 129	15	30	
2,4-Dichlorophenol	2.86	2.617		ug/L		92	53 - 122	12	30	
2,4-Dimethylphenol	2.86	2.152		ug/L		75	42 - 120	15	30	
1,4-Dioxane	2.86	1.043		ug/L		36	27 - 130	8	30	
2,4-Dinitrophenol	2.86	1.967	J	ug/L		69	12 - 173	27	30	
2,4-Dinitrotoluene	2.86	3.750	*+	ug/L		131	48 - 127	16	30	
2,6-Dinitrotoluene	2.86	4.144	*+	ug/L		145	68 - 137	10	30	
2-Chloronaphthalene	2.86	2.120		ug/L		74	10 - 130	9	30	
2-Methylnaphthalene	2.86	2.024		ug/L		71	25 - 175	11	30	
2-Methylphenol	2.86	2.297		ug/L		80	14 - 176	9	30	
2-Nitroaniline	2.86	3.095		ug/L		108	59 - 130	10	30	
2-Nitrophenol	2.86	3.820		ug/L		134	45 - 167	10	30	
3 & 4 Methylphenol	2.86	1.940		ug/L		68	22 - 130	7	30	
3-Nitroaniline	2.86	1.893		ug/L		66	30 - 130	6	30	
4,6-Dinitro-2-methylphenol	2.86	2.663		ug/L		93	10 - 130	13	30	
4-Bromophenyl phenyl ether	2.86	2.176		ug/L		76	65 - 120	19	30	
4-Chloro-3-methylphenol	2.86	2.920		ug/L		102	41 - 128	11	30	
4-Chloroaniline	2.86	1.606		ug/L		56	30 - 130	3	30	
4-Chlorophenyl phenyl ether	2.86	2.060		ug/L		72	38 - 145	16	30	
4-Nitroaniline	2.86	2.076		ug/L		73	42 - 125	7	30	
Acenaphthene	2.86	2.126		ug/L		74	60 - 132	14	30	
Acenaphthylene	2.86	2.418		ug/L		85	54 - 126	10	30	
Aniline	2.86	1.308		ug/L		46	15 - 130	1	30	
Anthracene	2.86	2.174		ug/L		76	43 - 135	12	30	
Benzo[a]anthracene	2.86	2.970		ug/L		104	42 - 133	6	30	
Benzo[a]pyrene	2.86	2.406		ug/L		84	32 - 148	12	30	
Benzo[b]fluoranthene	2.86	3.312		ug/L		116	42 - 140	8	30	
Benzo[g,h,i]perylene	2.86	2.495		ug/L		87	25 - 195	12	30	
Benzo[k]fluoranthene	2.86	2.987		ug/L		105	25 - 146	8	30	
Benzyl alcohol	2.86	3.542		ug/L		124	57 - 130	2	30	
Bis(2-chloroethoxy)methane	2.86	2.619		ug/L		92	49 - 165	13	30	
Bis(2-chloroethyl)ether	2.86	2.341		ug/L		82	43 - 126	12	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
Bis(2-ethylhexyl) phthalate	2.86	4.487	*+	ug/L		157	29 - 137	11	30
Butyl benzyl phthalate	2.86	4.374	*+	ug/L		153	28 - 130	10	30
Chrysene	2.86	2.419		ug/L		85	47 - 130	11	30
Dibenz(a,h)anthracene	2.86	2.569		ug/L		90	32 - 200	14	30
Dibenzofuran	2.86	2.249		ug/L		79	48 - 130	16	30
Diethyl phthalate	2.86	3.112		ug/L		109	53 - 120	9	30
Dimethyl phthalate	2.86	3.338		ug/L		117	67 - 120	14	30
Di-n-butyl phthalate	2.86	3.309		ug/L		116	8 - 120	12	30
Di-n-octyl phthalate	2.86	4.445		ug/L		156	19 - 200	11	30
Fluoranthene	2.86	2.407		ug/L		84	43 - 130	10	30
Fluorene	2.86	2.117		ug/L		74	70 - 130	14	30
Hexachlorobenzene	2.86	1.943		ug/L		68	8 - 142	12	30
Hexachlorobutadiene	2.86	1.167		ug/L		41	10 - 130	17	30
Hexachlorocyclopentadiene	2.86	1.269		ug/L		44	10 - 130	18	30
Hexachloroethane	2.86	1.470		ug/L		51	10 - 130	11	30
Indeno[1,2,3-cd]pyrene	2.86	2.878		ug/L		101	29 - 151	12	30
Isophorone	2.86	3.378		ug/L		118	47 - 180	10	30
Naphthalene	2.86	2.157		ug/L		75	36 - 120	8	30
Nitrobenzene	2.86	3.551		ug/L		124	54 - 130	7	30
N-Nitrosodi-n-propylamine	2.86	2.599		ug/L		91	14 - 198	12	30
N-Nitrosodiphenylamine	2.86	2.735		ug/L		96	40 - 127	12	30
Pentachlorophenol	2.86	3.227		ug/L		113	38 - 152	21	30
Phenanthrene	2.86	2.195		ug/L		77	65 - 120	15	30
Phenol	2.86	1.256	J	ug/L		44	17 - 120	15	30
Pyrene	2.86	2.491		ug/L		87	70 - 130	12	30
Pyridine	2.86	<1.44	U	ug/L		37	1 - 126	9	30
N-Nitro-o-toluidine	2.86	2.104		ug/L		74	47 - 130	7	30
2,3,4,6-Tetrachlorophenol	2.86	2.592		ug/L		91	33 - 132	11	30
Acetophenone	2.86	2.330		ug/L		82	58 - 130	10	30
N-Nitrosopiperidine	2.86	3.085		ug/L		108	54 - 130	16	30
Pentachlorobenzene	2.86	1.541		ug/L		54	47 - 130	20	30
Diphenyl ether	2.86	2.167		ug/L		76	61 - 130	14	30
1,1'-Biphenyl	2.86	1.931		ug/L		68	52 - 130	15	30
4-Aminobiphenyl	2.86	1.767		ug/L		62	35 - 130	3	30
1,2,4,5-Tetrachlorobenzene	2.86	1.476		ug/L		52	52 - 130	11	30
1,3,5-Trinitrobenzene	2.86	4.273	*+	ug/L		150	42 - 130	18	30
1,3-Dinitrobenzene	2.86	4.210	*+	ug/L		147	54 - 130	9	30
1,4-Naphthoquinone	2.86	3.539		ug/L		124	34 - 130	18	30
1-Naphthylamine	2.86	0.5143	J *-	ug/L		18	40 - 130	3	30
2,6-Dichlorophenol	2.86	2.627		ug/L		92	40 - 130	16	30
2-Acetylaminofluorene	2.86	7.003	*+	ug/L		245	50 - 150	7	30
2-Chlorophenol	2.86	2.533		ug/L		89	36 - 120	11	30
2-Naphthylamine	2.86	0.6411	*-	ug/L		22	30 - 130	12	30
2-Picoline	2.86	1.350		ug/L		47	22 - 130	1	30
2-Toluidine	2.86	1.421		ug/L		50	30 - 130	1	30
3,3'-Dichlorobenzidine	2.86	1.903		ug/L		67	20 - 150	4	30
3,3'-Dimethylbenzidine	2.86	0.3987	J *-	ug/L		14	30 - 130	15	30
3-Methylcholanthrene	2.86	2.235		ug/L		78	53 - 130	10	30
4-Nitroquinoline-1-oxide	2.86	4.617	*+	ug/L		162	39 - 130	2	30

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
7,12-Dimethylbenz(a)anthracene	2.86	3.123		ug/L		109	63 - 130	6	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	2.458	*+	ug/L		172	69 - 130	18	30	
Aramite Peak 2	1.43	2.475	*+	ug/L		173	65 - 130	13	30	
Diallate Peak 1	2.11	2.053		ug/L		97	69 - 130	13	30	
Diallate Peak 2	0.743	0.7174		ug/L		97	67 - 130	14	30	
Ethyl methanesulfonate	2.86	1.834		ug/L		64	54 - 130	11	30	
Hexachloropropene	2.86	1.241		ug/L		43	37 - 130	19	30	
Isosafrole Peak 1	0.457	0.3203	J	ug/L		70	54 - 130	11	30	
Isosafrole Peak 2	2.40	1.862		ug/L		78	62 - 130	11	30	
Methyl methanesulfonate	2.86	1.099		ug/L		38	30 - 130	7	30	
N-Nitrosodiethylamine	2.86	2.392		ug/L		84	54 - 130	2	30	
N-Nitrosodimethylamine	2.86	0.9307		ug/L		33	28 - 126	9	30	
N-Nitrosodi-n-butylamine	2.86	3.272		ug/L		115	58 - 130	12	30	
N-Nitrosomethylethylamine	2.86	1.755		ug/L		61	45 - 130	7	30	
N-Nitrosomorpholine	2.86	1.581		ug/L		55	37 - 130	9	30	
N-Nitrosopyrrolidine	2.86	1.861		ug/L		65	47 - 130	1	30	
p-Dimethylamino azobenzene	2.86	2.705		ug/L		95	61 - 130	10	30	
Pentachloronitrobenzene	2.86	3.872	*+	ug/L		136	56 - 130	19	30	
Phenacetin	2.86	3.511		ug/L		123	70 - 130	17	30	
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	3.755	*+	ug/L		131	70 - 130	13	30	
Safrole, Total	2.86	2.766		ug/L		97	70 - 130	11	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130
2-Fluorobiphenyl	107		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14	104		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acetophenone	2.86	2.732		ug/L		96	58 - 130	3	30	

**Lab Sample ID: LCSD 860-159586/5-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.633		ug/L		134	45 - 138	1	30	
Dinoseb	5.71	9.559	*+	ug/L		167	49 - 130	3	30	
Disulfoton	5.71	3.580	*1	ug/L		63	38 - 134	40	30	
Ethyl Parathion	5.71	11.60	*+	ug/L		203	25 - 173	15	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/5-A**

**Matrix: Water**

**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Famphur	2.86	4.439	*+	ug/L		155	43 - 142	11	30
Methapyrilene	5.71	9.267		ug/L		162	70 - 183	5	30
Methyl parathion	5.71	10.47	*+	ug/L		183	26 - 159	9	30
o,o',o"-Triethylphosphorothioate	2.86	2.726		ug/L		95	43 - 130	3	30
Phorate	5.71	6.954		ug/L		122	37 - 140	17	30
Sulfotepp	5.71	7.134		ug/L		125	28 - 158	17	30
Thionazin	2.86	3.290		ug/L		115	50 - 150	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130
2-Fluorobiphenyl	117		43 - 130
2-Fluorophenol (Surr)	66		19 - 120
Nitrobenzene-d5 (Surr)	176	S1+	37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14	113		47 - 130

**Lab Sample ID: MB 860-160172/1-A**

**Matrix: Water**

**Analysis Batch: 160340**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 160172**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 14:30	05/15/24 16:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/15/24 16:05	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/15/24 16:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzyl alcohol	0.7250	J	1.14	0.600	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 14:30	05/15/24 16:05	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 14:30	05/15/24 16:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:30	05/15/24 16:05	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:30	05/15/24 16:05	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/15/24 16:05	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pronamide	0.1811	J I	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/15/24 16:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/15/24 16:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorobiphenyl	117		43 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorophenol (Surr)	78		19 - 120	05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133	05/14/24 14:30	05/15/24 16:05	1
Phenol-d5 (Surr)	33		8 - 124	05/14/24 14:30	05/15/24 16:05	1
p-Terphenyl-d14	121		47 - 130	05/14/24 14:30	05/15/24 16:05	1

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	2.907		ug/L		102	32 - 130
1,2-Dichlorobenzene	2.86	2.651		ug/L		93	32 - 130
1,3-Dichlorobenzene	2.86	2.518		ug/L		88	26 - 130
1,4-Dichlorobenzene	2.86	2.589		ug/L		91	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	3.056	I	ug/L		107	10 - 173
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130
2,4,6-Trichlorophenol	2.86	4.075	*+	ug/L		143	52 - 129
2,4-Dichlorophenol	2.86	3.540	*+	ug/L		124	53 - 122
2,4-Dimethylphenol	2.86	3.023		ug/L		106	42 - 120
1,4-Dioxane	2.86	1.278		ug/L		45	27 - 130
2,4-Dinitrophenol	2.86	3.263		ug/L		114	12 - 173
2,4-Dinitrotoluene	2.86	4.832	*+	ug/L		169	48 - 127
2,6-Dinitrotoluene	2.86	5.554	*+	ug/L		194	68 - 137
2-Chloronaphthalene	2.86	4.009	*+	ug/L		140	10 - 130
2-Methylnaphthalene	2.86	3.510		ug/L		123	25 - 175
2-Methylphenol	2.86	2.730		ug/L		96	14 - 176
2-Nitroaniline	2.86	5.650	*+	ug/L		198	59 - 130
2-Nitrophenol	2.86	5.344	*+	ug/L		187	45 - 167
3 & 4 Methylphenol	2.86	2.183		ug/L		76	22 - 130
3-Nitroaniline	2.86	2.061		ug/L		72	30 - 130
4,6-Dinitro-2-methylphenol	2.86	4.063	*+	ug/L		142	10 - 130
4-Bromophenyl phenyl ether	2.86	3.459	*+	ug/L		121	65 - 120
4-Chloro-3-methylphenol	2.86	4.144	*+	ug/L		145	41 - 128
4-Chloroaniline	2.86	1.659		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	3.497		ug/L		122	38 - 145
4-Nitroaniline	2.86	2.409		ug/L		84	42 - 125
Acenaphthene	2.86	2.996		ug/L		105	60 - 132
Acenaphthylene	2.86	2.391		ug/L		84	54 - 126
Aniline	2.86	1.236		ug/L		43	15 - 130
Anthracene	2.86	3.199		ug/L		112	43 - 135
Benzo[a]anthracene	2.86	4.117	*+	ug/L		144	42 - 133
Benzo[a]pyrene	2.86	3.331		ug/L		117	32 - 148
Benzo[b]fluoranthene	2.86	4.705	*+	ug/L		165	42 - 140
Benzo[g,h,i]perylene	2.86	3.439		ug/L		120	25 - 195
Benzo[k]fluoranthene	2.86	3.842		ug/L		134	25 - 146
Benzyl alcohol	2.86	3.224		ug/L		113	57 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	2.86	3.665		ug/L		128	49 - 165
Bis(2-chloroethyl)ether	2.86	2.971		ug/L		104	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	5.369	*+	ug/L		188	29 - 137
Butyl benzyl phthalate	2.86	5.915	*+	ug/L		207	28 - 130
Chrysene	2.86	3.521		ug/L		123	47 - 130
Dibenz(a,h)anthracene	2.86	3.729		ug/L		131	32 - 200
Dibenzofuran	2.86	3.449		ug/L		121	48 - 130
Diethyl phthalate	2.86	4.515	*+	ug/L		158	53 - 120
Dimethyl phthalate	2.86	4.364	*+	ug/L		153	67 - 120
Di-n-butyl phthalate	2.86	4.644	*+	ug/L		163	8 - 120
Di-n-octyl phthalate	2.86	5.725		ug/L		200	19 - 200
Fluoranthene	2.86	3.581		ug/L		125	43 - 130
Fluorene	2.86	3.236		ug/L		113	70 - 130
Hexachlorobenzene	2.86	3.251		ug/L		114	8 - 142
Hexachlorobutadiene	2.86	2.351		ug/L		82	10 - 130
Hexachlorocyclopentadiene	2.86	2.803		ug/L		98	10 - 130
Hexachloroethane	2.86	2.486		ug/L		87	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	4.042		ug/L		141	29 - 151
Isophorone	2.86	4.361		ug/L		153	47 - 180
Naphthalene	2.86	3.660	*+	ug/L		128	36 - 120
Nitrobenzene	2.86	4.338	*+	ug/L		152	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.092		ug/L		108	14 - 198
N-Nitrosodiphenylamine	2.86	2.284		ug/L		80	40 - 127
Pentachlorophenol	2.86	4.233		ug/L		148	38 - 152
Phenanthrene	2.86	3.525	*+	ug/L		123	65 - 120
Phenol	2.86	1.602	J	ug/L		56	17 - 120
Pyrene	2.86	3.723		ug/L		130	70 - 130
Pyridine	2.86	<1.44	U	ug/L		33	1 - 126
N-Nitro-o-toluidine	2.86	2.012		ug/L		70	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.749		ug/L		131	33 - 132
Acetophenone	2.86	2.801		ug/L		98	58 - 130
N-Nitrosopiperidine	2.86	4.055	*+	ug/L		142	54 - 130
Pentachlorobenzene	2.86	3.199		ug/L		112	47 - 130
Diphenyl ether	2.86	3.604		ug/L		126	61 - 130
1,1'-Biphenyl	2.86	3.188		ug/L		112	52 - 130
4-Aminobiphenyl	2.86	1.696		ug/L		59	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	3.000		ug/L		105	52 - 130
1,3,5-Trinitrobenzene	2.86	5.467	*+	ug/L		191	42 - 130
1,3-Dinitrobenzene	2.86	5.685	*+	ug/L		199	54 - 130
1,4-Naphthoquinone	2.86	4.554	*+	ug/L		159	34 - 130
1-Naphthylamine	2.86	0.6700	I *-	ug/L		23	40 - 130
2,6-Dichlorophenol	2.86	3.725		ug/L		130	40 - 130
2-Acetylaminofluorene	2.86	9.129	*+	ug/L		320	50 - 150
2-Chlorophenol	2.86	3.236		ug/L		113	36 - 120
2-Naphthylamine	2.86	0.7905	*-	ug/L		28	30 - 130
2-Picoline	2.86	1.485		ug/L		52	22 - 130
2-Toluidine	2.86	1.076		ug/L		38	30 - 130
3,3'-Dichlorobenzidine	2.86	1.832		ug/L		64	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4976	J *-	ug/L		17	30 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Methylcholanthrene	2.86	3.296		ug/L		115	53 - 130
4-Nitroquinoline-1-oxide	2.86	6.357	*+	ug/L		222	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	4.260	*+	ug/L		149	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.170	*+	ug/L		222	69 - 130
Aramite Peak 2	1.43	3.540	*+	ug/L		248	65 - 130
Diallate Peak 1	2.11	2.370		ug/L		112	69 - 130
Diallate Peak 2	0.743	0.8822		ug/L		119	67 - 130
Ethyl methanesulfonate	2.86	2.547		ug/L		89	54 - 130
Hexachloropropene	2.86	3.063		ug/L		107	37 - 130
Isosafrole Peak 1	0.457	0.3620	J	ug/L		79	54 - 130
Isosafrole Peak 2	2.40	1.859		ug/L		77	62 - 130
Methyl methanesulfonate	2.86	1.354		ug/L		47	30 - 130
N-Nitrosodiethylamine	2.86	3.079		ug/L		108	54 - 130
N-Nitrosodimethylamine	2.86	1.240		ug/L		43	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.427	*+	ug/L		155	58 - 130
N-Nitrosomethylethylamine	2.86	2.289		ug/L		80	45 - 130
N-Nitrosomorpholine	2.86	2.009		ug/L		70	37 - 130
N-Nitrosopyrrolidine	2.86	2.321		ug/L		81	47 - 130
p-Dimethylamino azobenzene	2.86	4.390	*+	ug/L		154	61 - 130
Pentachloronitrobenzene	2.86	4.827	*+	ug/L		169	56 - 130
Phenacetin	2.86	4.508	*+	ug/L		158	70 - 130
p-Phenylene diamine	2.86	<0.500	U	ug/L		11	3 - 120
Pronamide	2.86	4.772	*+	ug/L		167	70 - 130
Safrole, Total	2.86	2.669		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	93		19 - 120
Nitrobenzene-d5 (Surr)	206	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	8.349	*+	ug/L		146	45 - 138
Dinoseb	5.71	10.58	*+	ug/L		185	49 - 130
Disulfoton	5.71	6.417		ug/L		112	38 - 134
Ethyl Parathion	5.71	12.45	*+	ug/L		218	25 - 173
Famphur	2.86	4.910	*+	ug/L		172	43 - 142
Methapyrilene	5.71	9.732		ug/L		170	70 - 183
Methyl parathion	5.71	11.52	*+	ug/L		202	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	3.465		ug/L		121	43 - 130
Phorate	5.71	8.223	*+	ug/L		144	37 - 140

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfotepp	5.71	7.783		ug/L		136	28 - 158
Thionazin	2.86	3.524		ug/L		123	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	149	S1+	35 - 130
2-Fluorobiphenyl	126		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	185	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	2.875		ug/L		101	32 - 130	1	30
1,2-Dichlorobenzene	2.86	2.824		ug/L		99	32 - 130	6	30
1,3-Dichlorobenzene	2.86	2.628		ug/L		92	26 - 130	4	30
1,4-Dichlorobenzene	2.86	2.725		ug/L		95	28 - 130	5	30
2,2'-oxybis[1-chloropropane]	2.86	3.206	I	ug/L		112	10 - 173	5	30
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130	0	30
2,4,6-Trichlorophenol	2.86	4.136	*+	ug/L		145	52 - 129	1	30
2,4-Dichlorophenol	2.86	3.788	*+	ug/L		133	53 - 122	7	30
2,4-Dimethylphenol	2.86	2.886		ug/L		101	42 - 120	5	30
1,4-Dioxane	2.86	1.347		ug/L		47	27 - 130	5	30
2,4-Dinitrophenol	2.86	3.573		ug/L		125	12 - 173	9	30
2,4-Dinitrotoluene	2.86	5.083	*+	ug/L		178	48 - 127	5	30
2,6-Dinitrotoluene	2.86	5.609	*+	ug/L		196	68 - 137	1	30
2-Chloronaphthalene	2.86	4.075	*+	ug/L		143	10 - 130	2	30
2-Methylnaphthalene	2.86	3.440		ug/L		120	25 - 175	2	30
2-Methylphenol	2.86	2.668		ug/L		93	14 - 176	2	30
2-Nitroaniline	2.86	5.733	*+	ug/L		201	59 - 130	1	30
2-Nitrophenol	2.86	5.516	*+	ug/L		193	45 - 167	3	30
3 & 4 Methylphenol	2.86	2.098		ug/L		73	22 - 130	4	30
3-Nitroaniline	2.86	2.189		ug/L		77	30 - 130	6	30
4,6-Dinitro-2-methylphenol	2.86	4.009	*+	ug/L		140	10 - 130	1	30
4-Bromophenyl phenyl ether	2.86	3.778	*+	ug/L		132	65 - 120	9	30
4-Chloro-3-methylphenol	2.86	4.206	*+	ug/L		147	41 - 128	1	30
4-Chloroaniline	2.86	1.780		ug/L		62	30 - 130	7	30
4-Chlorophenyl phenyl ether	2.86	3.726		ug/L		130	38 - 145	6	30
4-Nitroaniline	2.86	2.495		ug/L		87	42 - 125	4	30
Acenaphthene	2.86	2.810		ug/L		98	60 - 132	6	30
Acenaphthylene	2.86	2.424		ug/L		85	54 - 126	1	30
Aniline	2.86	1.087		ug/L		38	15 - 130	13	30
Anthracene	2.86	3.099		ug/L		108	43 - 135	3	30
Benzo[a]anthracene	2.86	3.759		ug/L		132	42 - 133	9	30
Benzo[a]pyrene	2.86	3.327		ug/L		116	32 - 148	0	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[b]fluoranthene	2.86	4.072	*+	ug/L		143	42 - 140	14	30	
Benzo[g,h,i]perylene	2.86	3.452		ug/L		121	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	3.480		ug/L		122	25 - 146	10	30	
Benzyl alcohol	2.86	3.460		ug/L		121	57 - 130	7	30	
Bis(2-chloroethoxy)methane	2.86	3.758		ug/L		132	49 - 165	3	30	
Bis(2-chloroethyl)ether	2.86	3.127		ug/L		109	43 - 126	5	30	
Bis(2-ethylhexyl) phthalate	2.86	4.865	*+	ug/L		170	29 - 137	10	30	
Butyl benzyl phthalate	2.86	5.844	*+	ug/L		205	28 - 130	1	30	
Chrysene	2.86	3.158		ug/L		111	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	3.669		ug/L		128	32 - 200	2	30	
Dibenzofuran	2.86	3.652		ug/L		128	48 - 130	6	30	
Diethyl phthalate	2.86	4.432	*+	ug/L		155	53 - 120	2	30	
Dimethyl phthalate	2.86	4.497	*+	ug/L		157	67 - 120	3	30	
Di-n-butyl phthalate	2.86	4.593	*+	ug/L		161	8 - 120	1	30	
Di-n-octyl phthalate	2.86	5.130		ug/L		180	19 - 200	11	30	
Fluoranthene	2.86	3.667		ug/L		128	43 - 130	2	30	
Fluorene	2.86	3.357		ug/L		117	70 - 130	4	30	
Hexachlorobenzene	2.86	3.126		ug/L		109	8 - 142	4	30	
Hexachlorobutadiene	2.86	2.528		ug/L		88	10 - 130	7	30	
Hexachlorocyclopentadiene	2.86	2.912		ug/L		102	10 - 130	4	30	
Hexachloroethane	2.86	2.609		ug/L		91	10 - 130	5	30	
Indeno[1,2,3-cd]pyrene	2.86	3.973		ug/L		139	29 - 151	2	30	
Isophorone	2.86	4.559		ug/L		160	47 - 180	4	30	
Naphthalene	2.86	3.606	*+	ug/L		126	36 - 120	1	30	
Nitrobenzene	2.86	4.626	*+	ug/L		162	54 - 130	6	30	
N-Nitrosodi-n-propylamine	2.86	3.161		ug/L		111	14 - 198	2	30	
N-Nitrosodiphenylamine	2.86	2.359		ug/L		83	40 - 127	3	30	
Pentachlorophenol	2.86	4.290		ug/L		150	38 - 152	1	30	
Phenanthrene	2.86	3.535	*+	ug/L		124	65 - 120	0	30	
Phenol	2.86	1.636	J	ug/L		57	17 - 120	2	30	
Pyrene	2.86	3.722		ug/L		130	70 - 130	0	30	
Pyridine	2.86	<1.44	U	ug/L		36	1 - 126	8	30	
N-Nitro-o-toluidine	2.86	2.132		ug/L		75	47 - 130	6	30	
2,3,4,6-Tetrachlorophenol	2.86	3.760		ug/L		132	33 - 132	0	30	
Acetophenone	2.86	2.947		ug/L		103	58 - 130	5	30	
N-Nitrosopiperidine	2.86	4.213	*+	ug/L		147	54 - 130	4	30	
Pentachlorobenzene	2.86	3.296		ug/L		115	47 - 130	3	30	
Diphenyl ether	2.86	3.671		ug/L		128	61 - 130	2	30	
1,1'-Biphenyl	2.86	3.306		ug/L		116	52 - 130	4	30	
4-Aminobiphenyl	2.86	1.814		ug/L		64	35 - 130	7	30	
1,2,4,5-Tetrachlorobenzene	2.86	3.048		ug/L		107	52 - 130	2	30	
1,3,5-Trinitrobenzene	2.86	5.777	*+	ug/L		202	42 - 130	6	30	
1,3-Dinitrobenzene	2.86	5.712	*+	ug/L		200	54 - 130	0	30	
1,4-Naphthoquinone	2.86	4.642	*+	ug/L		162	34 - 130	2	30	
1-Naphthylamine	2.86	0.3682	J   *- *1	ug/L		13	40 - 130	58	30	
2,6-Dichlorophenol	2.86	3.691		ug/L		129	40 - 130	1	30	
2-Acetylaminofluorene	2.86	8.930	*+	ug/L		313	50 - 150	2	30	
2-Chlorophenol	2.86	3.424		ug/L		120	36 - 120	6	30	
2-Naphthylamine	2.86	0.4953	J *- *1	ug/L		17	30 - 130	46	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
2-Picoline	2.86	1.348		ug/L		47	22 - 130	10	30	
2-Toluidine	2.86	1.048		ug/L		37	30 - 130	3	30	
3,3'-Dichlorobenzidine	2.86	1.946		ug/L		68	20 - 150	6	30	
3,3'-Dimethylbenzidine	2.86	0.3553	J * - *1	ug/L		12	30 - 130	33	30	
3-Methylcholanthrene	2.86	3.233		ug/L		113	53 - 130	2	30	
4-Nitroquinoline-1-oxide	2.86	6.027	*+	ug/L		211	39 - 130	5	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.801	*+	ug/L		133	63 - 130	11	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U * -	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	3.509	*+	ug/L		246	69 - 130	10	30	
Aramite Peak 2	1.43	3.432	*+	ug/L		240	65 - 130	3	30	
Diallate Peak 1	2.11	2.476		ug/L		117	69 - 130	4	30	
Diallate Peak 2	0.743	0.8093		ug/L		109	67 - 130	9	30	
Ethyl methanesulfonate	2.86	2.625		ug/L		92	54 - 130	3	30	
Hexachloropropene	2.86	3.036		ug/L		106	37 - 130	1	30	
Isosafrole Peak 1	0.457	0.3482	J	ug/L		76	54 - 130	4	30	
Isosafrole Peak 2	2.40	1.878		ug/L		78	62 - 130	1	30	
Methyl methanesulfonate	2.86	1.424		ug/L		50	30 - 130	5	30	
N-Nitrosodiethylamine	2.86	3.272		ug/L		115	54 - 130	6	30	
N-Nitrosodimethylamine	2.86	1.262		ug/L		44	28 - 126	2	30	
N-Nitrosodi-n-butylamine	2.86	4.563	*+	ug/L		160	58 - 130	3	30	
N-Nitrosomethylethylamine	2.86	2.398		ug/L		84	45 - 130	5	30	
N-Nitrosomorpholine	2.86	2.035		ug/L		71	37 - 130	1	30	
N-Nitrosopyrrolidine	2.86	2.316		ug/L		81	47 - 130	0	30	
p-Dimethylamino azobenzene	2.86	4.128	*+	ug/L		144	61 - 130	6	30	
Pentachloronitrobenzene	2.86	5.144	*+	ug/L		180	56 - 130	6	30	
Phenacetin	2.86	4.635	*+	ug/L		162	70 - 130	3	30	
p-Phenylene diamine	2.86	<0.500	U * - *1	ug/L		0	3 - 120	200	30	
Pronamide	2.86	4.807	*+	ug/L		168	70 - 130	1	30	
Safrole, Total	2.86	2.539		ug/L		89	70 - 130	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	162	S1+	35 - 130
2-Fluorobiphenyl	136	S1+	43 - 130
2-Fluorophenol (Surr)	98		19 - 120
Nitrobenzene-d5 (Surr)	211	S1+	37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14	121		47 - 130

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.862		ug/L		138	45 - 138	6	30	
Dinoseb	5.71	10.04	*+	ug/L		176	49 - 130	5	30	
Disulfoton	5.71	5.406		ug/L		95	38 - 134	17	30	
Ethyl Parathion	5.71	11.34	*+	ug/L		198	25 - 173	9	30	
Famphur	2.86	4.422	*+	ug/L		155	43 - 142	10	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methapyrilene	5.71	9.127		ug/L		160	70 - 183	6	30
Methyl parathion	5.71	10.21	*+	ug/L		179	26 - 159	12	30
o,o',o"-Triethylphosphorothioate	2.86	3.178		ug/L		111	43 - 130	9	30
Phorate	5.71	7.544		ug/L		132	37 - 140	9	30
Sulfotepp	5.71	7.160		ug/L		125	28 - 158	8	30
Thionazin	2.86	3.352		ug/L		117	50 - 150	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130
2-Fluorobiphenyl	147	S1+	43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	204	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	127		47 - 130

# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## GC/MS VOA

### Analysis Batch: 159779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1	MW-47	Total/NA	Water	8260D	
860-73918-2	MW-43	Total/NA	Water	8260D	
860-73918-3	TB-02 (050724)	Total/NA	Water	8260D	
MB 860-159779/9	Method Blank	Total/NA	Water	8260D	
LCS 860-159779/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-159779/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-73918-1 MS	MW-47	Total/NA	Water	8260D	

### Analysis Batch: 160047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1 - RA	MW-47	Total/NA	Water	8260D	
860-73918-2 - RA	MW-43	Total/NA	Water	8260D	
860-73918-3 - RA	TB-02 (050724)	Total/NA	Water	8260D	
MB 860-160047/10	Method Blank	Total/NA	Water	8260D	
LCS 860-160047/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160047/4	Lab Control Sample Dup	Total/NA	Water	8260D	
880-43280-A-17 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
880-43280-C-17 MS	Matrix Spike	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 159586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1 - RA	MW-47	Total/NA	Water	3511	
860-73918-1	MW-47	Total/NA	Water	3511	
860-73918-1 - RA2	MW-47	Total/NA	Water	3511	
860-73918-2 - RA	MW-43	Total/NA	Water	3511	
860-73918-2 - RA2	MW-43	Total/NA	Water	3511	
860-73918-2	MW-43	Total/NA	Water	3511	
MB 860-159586/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 159684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1	MW-47	Total/NA	Water	8270E	159586
860-73918-2	MW-43	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Analysis Batch: 159967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1 - RA	MW-47	Total/NA	Water	8270E	159586
860-73918-2 - RA	MW-43	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 159967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Analysis Batch: 160095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1 - RA2	MW-47	Total/NA	Water	8270E	159586
860-73918-2 - RA2	MW-43	Total/NA	Water	8270E	159586

### Prep Batch: 160172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1	MW-47	Total/NA	Water	3511	
860-73918-1 - DL	MW-47	Total/NA	Water	3511	
860-73918-2	MW-43	Total/NA	Water	3511	
MB 860-160172/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 160340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-160172/1-A	Method Blank	Total/NA	Water	8270E	160172
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172

### Analysis Batch: 160913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1	MW-47	Total/NA	Water	8270E	160172
860-73918-2	MW-43	Total/NA	Water	8270E	160172

### Analysis Batch: 161181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73918-1 - DL	MW-47	Total/NA	Water	8270E	160172

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

**Client Sample ID: MW-47**

**Lab Sample ID: 860-73918-1**

Date Collected: 05/07/24 11:29

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 10:45	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 13:52	A1S	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	159967	05/14/24 03:15	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/10/24 23:47	PXS	EET HOU
Total/NA	Prep	3511	RA2		35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E	RA2	1	1 mL	1 mL	160095	05/14/24 23:52	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/18/24 02:10	T1S	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	161181	05/20/24 14:36	EM	EET HOU

**Client Sample ID: MW-43**

**Lab Sample ID: 860-73918-2**

Date Collected: 05/07/24 11:34

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	159779	05/13/24 14:51	NA	EET HOU
Total/NA	Analysis	8260D	RA	2	5 mL	5 mL	160047	05/14/24 16:32	A1S	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	159967	05/14/24 03:43	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 00:17	PXS	EET HOU
Total/NA	Prep	3511	RA2		35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E	RA2	1	1 mL	1 mL	160095	05/15/24 00:22	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/18/24 02:40	T1S	EET HOU

**Client Sample ID: TB-02 (050724)**

**Lab Sample ID: 860-73918-3**

Date Collected: 05/07/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 09:44	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 16:53	A1S	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	05-21-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26



# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73918-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
860-73918-1	MW-47	Water	05/07/24 11:29	05/09/24 10:49
860-73918-2	MW-43	Water	05/07/24 11:34	05/09/24 10:49
860-73918-3	TB-02 (050724)	Water	05/07/24 00:00	05/09/24 10:49

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**Client Information**  
 Client Contact: Mr. Antonio Cardoso  
 Company: Arcadis U.S. Inc.  
 Address: 4300 West Cypress Street Suite 450  
 City: Tampa  
 State, Zip: FL, 33607  
 Phone: 1095575  
 Email: antonio.cardoso@arcadis.com  
 Project Name: Hercules Hattisburg, MS  
 Site: SSO#W#

Due Date Requested:  
 TAT Requested (days):  
 Compliance Project:  Yes  No  
 PO #: 1095575  
 WO #:  
 Project #: 86006085  
 SSO#W#:

Sampler: K. P. Madhavan  
 Phone: 713-205-8200  
 Lab P#: B (see lab)  
 Email: Sachin.Kudchadkar@eurofins.com  
 State of Origin:  
 ICC No: 860-29133-10045.1  
 Page: Page 1 of 8  
 Job #:

**Analysis Requested**

Field Filtered Sample (Yes or No)  
 Potentiometric/MS by (A or B)  
 8270E\_QQQ (MOD) Appendix 9 SVOCs  
 8260D (MOD) Appendix 9 VOCs

Preservation Codes:  
 N None  
 Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	Total Number of containers	Special Instructions/Note:
MM-47	5/7/24	1129	G	Water	X	7	
MM-43	"	1134	G	Water	X	7	
MM-3	7-8-02 (50m24)	"	G	Water	X	2	
MM-4				Water			
MM-5				Water			
MM-6				Water			
MM-7				Water			
MM-8				Water			
MM-9				Water			
MM-10				Water			
MM-11				Water			



**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV Other (specify):  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact:  Yes  No  
 Custody Seal No. \_\_\_\_\_

**Sample Disposal** (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/OC Requirements:  
 Method of Shipment: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

Ver: 01/16/2019

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-73918-1

**Login Number: 73918**

**List Source: Eurofins Houston**

**List Number: 1**

**Creator: Jimenez, Nicanor**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/30/2024 9:33:05 AM

**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-73920-1



# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73920-1

Job ID: 860-73920-1

Eurofins Houston

## Job Narrative 860-73920-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/9/2024 10:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

### GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-159779 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-160047 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-159586 and analytical batch 860-159684 was outside the upper control limits.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: Dinoseb, Disulfoton, Famphur and Methapyrilene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analyte: Disulfoton.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-70 (860-73920-1), MW-71 (860-73920-2), MW-72 (860-73920-3), MW-65 (860-73920-4) and MW-67 (860-73920-5). These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Acetylaminofluorene, 4-Nitroquinoline-1-oxide, Aramite Peak 1, Aramite Peak 2, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Nitrobenzene, Pentachloronitrobenzene, Phenacetin and Pronamide. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Job ID: 860-73920-1 (Continued)

**Eurofins Houston**

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-160172 and analytical batch 860-160340 was outside the upper control limits.

Method 8270E\_QQQ: The method blank for preparation batch 860-160172 and analytical batch 860-160340 contained Benzyl alcohol and Pronamide above the method detection limit. These target analytes concentration were less than the reporting limit in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine, and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

Method 8270E\_QQQ: Benzyl alcohol was detected above the reporting limit (RL) in the method blank associated with preparation batch 860-159586 and analytical batch 860-159684 as well as in the following sample: (MB 860-159586/1-A). All affected samples were re-extracted and re-analyzed.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-72 (860-73920-3), MW-65 (860-73920-4) and MW-67 (860-73920-5). These results have been reported and qualified.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside the upper control limit: MW-71 (860-73920-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: MW-70 (860-73920-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Client Sample ID: MW-70

## Lab Sample ID: 860-73920-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.101	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0135	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	2.18	I B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.75	I B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-71

## Lab Sample ID: 860-73920-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol	1.41	B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-72

## Lab Sample ID: 860-73920-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.101	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0138	J I B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.27	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.623	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-65

## Lab Sample ID: 860-73920-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.544	J	1.00	0.417	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	0.470	J	1.00	0.411	ug/L	1		8260D	Total/NA
Benzene	8.55		1.00	0.460	ug/L	1		8260D	Total/NA
Chloroform	0.727	J	1.00	0.464	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	6.86		1.00	0.592	ug/L	1		8260D	Total/NA
Cyclohexane	18.2		5.00	1.29	ug/L	1		8260D	Total/NA
Ethylbenzene	5.37		1.00	0.385	ug/L	1		8260D	Total/NA
Propylbenzene	9.35		1.00	0.429	ug/L	1		8260D	Total/NA
Toluene	2.15		1.00	0.475	ug/L	1		8260D	Total/NA
Xylenes, Total	6.26	J	10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.00466	J	0.0100	0.00124	mg/L	1		8260D	Total/NA
o-Xylene	0.00160		0.00100	0.000502	mg/L	1		8260D	Total/NA
1,4-Dioxane	0.0892	J	0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	3.23		0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	2.89		0.571	0.0603	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0156	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.56	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.13	J I B	1.14	0.600	ug/L	1		8270E	Total/NA
Fluorene	0.235	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Fluorene	0.244	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	8.15		0.571	0.0944	ug/L	1		8270E	Total/NA
Naphthalene	7.95	**	0.571	0.0944	ug/L	1		8270E	Total/NA
Acetophenone	0.763	J	1.14	0.624	ug/L	1		8270E	Total/NA
Acetophenone	0.753	J I	1.14	0.624	ug/L	1		8270E	Total/NA
Diphenyl ether	0.144	J I	0.571	0.0910	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-67

## Lab Sample ID: 860-73920-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14.2		1.00	0.460	ug/L	1		8260D	Total/NA
Ethylbenzene	0.683	J	1.00	0.385	ug/L	1		8260D	Total/NA
o-Xylene	0.000811	J	0.00100	0.000502	mg/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Client Sample ID: MW-67 (Continued)

Lab Sample ID: 860-73920-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dichlorophenol	0.141	J I *+	0.571	0.140	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.106	J	0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.0644	J	0.571	0.0603	ug/L	1		8270E	Total/NA
Acenaphthene	0.108	J	0.571	0.107	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0111	J B *+	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.17	B	1.14	0.600	ug/L	1		8270E	Total/NA
Naphthalene	1.89		0.571	0.0944	ug/L	1		8270E	Total/NA
Naphthalene	1.98	*+	0.571	0.0944	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-03 (050724)

Lab Sample ID: 860-73920-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

Date Collected: 05/07/24 13:40

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 13:50	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 13:50	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 13:50	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 13:50	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 13:50	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 13:50	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 13:50	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 13:50	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 13:50	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 13:50	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 13:50	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 13:50	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 13:50	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 13:50	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 13:50	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 13:50	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 13:50	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 13:50	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 13:50	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 13:50	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 13:50	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 13:50	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 13:50	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 13:50	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 13:50	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 13:50	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 13:50	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 13:50	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 13:50	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 13:50	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 13:50	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 13:50	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 13:50	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 13:50	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 13:50	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 13:50	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 13:50	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 13:50	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 13:50	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 13:50	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 13:50	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 13:50	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 13:50	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 13:50	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 13:50	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 13:50	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 13:50	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 13:50	1

Eurofins Houston



# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 13:50	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 13:50	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 13:50	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 13:50	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 13:50	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 13:50	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 13:50	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 13:50	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 13:50	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 13:50	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 13:50	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 13:50	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 13:50	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 13:50	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 13:50	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 13:50	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 13:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 13:50	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		05/13/24 13:50	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/13/24 13:50	1
Dibromofluoromethane (Surr)	102		75 - 131		05/13/24 13:50	1
Toluene-d8 (Surr)	100		80 - 120		05/13/24 13:50	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		05/14/24 17:13	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/14/24 17:13	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 17:13	1
Toluene-d8 (Surr)	98		80 - 120		05/14/24 17:13	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 02:51	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 01:11	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 01:11	1
<b>1,4-Dioxane</b>	<b>0.101</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 01:11	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 00:47	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 01:11	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 00:47	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 01:11	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 00:47	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 01:11	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 00:47	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 01:11	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 00:47	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 01:11	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 00:47	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 01:11	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 00:47	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 01:11	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 00:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]anthracene</b>	<b>0.0135</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 01:11	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 00:47	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 01:11	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 00:47	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 01:11	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 00:47	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 01:11	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 00:47	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 01:11	1
<b>Benzyl alcohol</b>	<b>2.18</b>	<b>I B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 00:47	1
<b>Benzyl alcohol</b>	<b>1.75</b>	<b>I B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 01:11	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 00:47	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 01:11	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 00:47	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 01:11	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 00:47	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 01:11	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 00:47	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 01:11	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 00:47	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 01:11	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 00:47	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 01:11	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 00:47	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 01:11	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 00:47	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 01:11	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 00:47	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 01:11	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 00:47	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 01:11	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 00:47	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 01:11	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 00:47	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 01:11	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 00:47	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 01:11	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 00:47	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 01:11	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 00:47	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 01:11	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 00:47	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 01:11	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 00:47	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 01:11	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:47	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:11	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 00:47	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 01:11	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 00:47	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 01:11	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 00:47	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 01:11	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 00:47	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 01:11	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 00:47	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 01:11	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 00:47	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 01:11	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 00:47	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 01:11	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 00:47	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 01:11	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 04:11	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 01:11	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 00:47	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 01:11	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 00:47	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 01:11	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 00:47	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 01:11	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 00:47	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 01:11	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 00:47	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 00:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 01:11	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 00:47	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 01:11	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 00:47	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 01:11	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 00:47	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 01:11	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 00:47	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 01:11	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 00:47	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 01:11	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 00:47	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 01:11	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 00:47	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 01:11	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 00:47	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 01:11	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 00:47	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 01:11	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 00:47	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 01:11	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 00:47	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 01:11	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 00:47	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 01:11	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 00:47	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 01:11	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 00:47	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 01:11	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 00:47	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 01:11	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 00:47	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 01:11	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 00:47	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 01:11	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 00:47	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 01:11	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 00:47	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 01:11	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 00:47	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 01:11	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 00:47	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 01:11	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 00:47	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 01:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 00:47	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 01:11	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 00:47	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 01:11	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 00:47	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 01:11	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 00:47	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 01:11	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 00:47	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 01:11	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 00:47	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 01:11	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 00:47	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 01:11	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:47	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:11	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:47	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:11	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 00:47	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 01:11	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 00:47	1
p-Phenylene diamine	<0.500	U * -1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 01:11	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 00:47	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:11	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 00:47	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 01:11	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 00:47	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 01:11	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 00:47	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	143	S1+	35 - 130	05/10/24 10:20	05/11/24 00:47	1
2,4,6-Tribromophenol (Surr)	118		35 - 130	05/14/24 14:30	05/18/24 01:11	1
2-Fluorobiphenyl	109		43 - 130	05/10/24 10:20	05/11/24 00:47	1
2-Fluorobiphenyl	122		43 - 130	05/14/24 14:30	05/18/24 01:11	1
2-Fluorophenol (Surr)	88		19 - 120	05/10/24 10:20	05/11/24 00:47	1
2-Fluorophenol (Surr)	115		19 - 120	05/14/24 14:30	05/18/24 01:11	1
Nitrobenzene-d5 (Surr)	181	S1+	37 - 133	05/10/24 10:20	05/11/24 00:47	1
Nitrobenzene-d5 (Surr)	149	S1+	37 - 133	05/14/24 14:30	05/18/24 01:11	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Client Sample ID: MW-70

Date Collected: 05/07/24 13:40

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73920-1

Matrix: Water

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	59		8 - 124	05/10/24 10:20	05/11/24 00:47	1
Phenol-d5 (Surr)	85		8 - 124	05/14/24 14:30	05/18/24 01:11	1
p-Terphenyl-d14	103		47 - 130	05/10/24 10:20	05/11/24 00:47	1
p-Terphenyl-d14	131	S1+	47 - 130	05/14/24 14:30	05/18/24 01:11	1

## Client Sample ID: MW-71

Date Collected: 05/07/24 14:07

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73920-2

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 12:28	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 12:28	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 12:28	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 12:28	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 12:28	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 12:28	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 12:28	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 12:28	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 12:28	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 12:28	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 12:28	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 12:28	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 12:28	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 12:28	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 12:28	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 12:28	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 12:28	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 12:28	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 12:28	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 12:28	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 12:28	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 12:28	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 12:28	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 12:28	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 12:28	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 12:28	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 12:28	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 12:28	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 12:28	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 12:28	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 12:28	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 12:28	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 12:28	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 12:28	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 12:28	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 12:28	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 12:28	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

**Date Collected: 05/07/24 14:07**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 12:28	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 12:28	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 12:28	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 12:28	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 12:28	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 12:28	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 12:28	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 12:28	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 12:28	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 12:28	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 12:28	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 12:28	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 12:28	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 12:28	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 12:28	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 12:28	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 12:28	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 12:28	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 12:28	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 12:28	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 12:28	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 12:28	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 12:28	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 12:28	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 12:28	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 12:28	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 12:28	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 12:28	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 12:28	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/13/24 12:28	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/13/24 12:28	1
Dibromofluoromethane (Surr)	101		75 - 131		05/13/24 12:28	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 12:28	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		05/14/24 17:34	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/14/24 17:34	1
Dibromofluoromethane (Surr)	112		75 - 131		05/14/24 17:34	1
Toluene-d8 (Surr)	99		80 - 120		05/14/24 17:34	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 01:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

**Date Collected: 05/07/24 14:07**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 03:20	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 01:39	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 01:16	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 01:39	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 01:16	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 01:39	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 01:16	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 01:39	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:39	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 01:39	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 01:39	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 01:39	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

Date Collected: 05/07/24 14:07

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 01:39	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 01:16	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 01:39	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 01:16	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 01:39	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 01:16	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 01:39	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 01:16	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 01:39	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 01:16	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 01:39	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 01:16	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 01:39	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 01:16	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 01:39	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 01:16	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 01:39	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 01:16	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 01:39	1
<b>Benzyl alcohol</b>	<b>1.41</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 01:16	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 01:39	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 01:16	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 01:39	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 01:16	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 01:39	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 01:16	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 01:39	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 01:16	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 01:39	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 01:16	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 01:39	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 01:16	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 01:39	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 01:16	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 01:39	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 01:16	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 01:39	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 01:16	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 01:39	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 01:16	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 01:39	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 01:16	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 01:39	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 01:16	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 01:39	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 01:16	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 01:39	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 01:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

**Date Collected: 05/07/24 14:07**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 01:39	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 01:16	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 01:39	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 01:16	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 01:39	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 01:16	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 01:39	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:16	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:39	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 01:16	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 01:39	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 01:16	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 01:39	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 01:16	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 01:39	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 01:16	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 01:39	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 01:16	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 01:39	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 01:16	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 01:39	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 01:16	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 01:39	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 01:16	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 01:39	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 04:39	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 01:39	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 01:16	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 01:39	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 01:16	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 01:39	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 01:39	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

Date Collected: 05/07/24 14:07

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 01:39	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 01:16	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 01:39	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 01:16	1
1-Naphthylamine	<0.149	U * *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 01:39	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 01:16	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Naphthylamine	<0.288	U * *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 01:39	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 01:16	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 01:39	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 01:16	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 01:39	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 01:16	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 01:39	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 01:16	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 01:39	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 01:16	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 01:39	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 01:16	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 01:39	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 01:16	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 01:39	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 01:16	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 01:39	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 01:16	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 01:39	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 01:16	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 01:39	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 01:16	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 01:39	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 01:16	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 01:39	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 01:16	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 01:39	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 01:16	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 01:39	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 01:16	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 01:39	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 01:16	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 01:39	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 01:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

**Date Collected: 05/07/24 14:07**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 01:39	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 01:16	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 01:39	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 01:16	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 01:39	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 01:16	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 01:39	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 01:16	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 01:39	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 01:16	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 01:39	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 01:16	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 01:39	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 01:16	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 01:39	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 01:16	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 01:39	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 01:16	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 01:39	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 01:16	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 01:39	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 01:16	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 01:39	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 01:16	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 01:39	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:16	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:39	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:16	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:39	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 01:16	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 01:39	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 01:16	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 01:39	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:16	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 01:39	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 01:16	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 01:39	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 01:16	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 01:39	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

**Date Collected: 05/07/24 14:07**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 01:16	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	136	S1+	35 - 130				05/10/24 10:20	05/11/24 01:16	1
2,4,6-Tribromophenol (Surr)	132	S1+	35 - 130				05/14/24 14:30	05/18/24 01:39	1
2-Fluorobiphenyl	114		43 - 130				05/10/24 10:20	05/11/24 01:16	1
2-Fluorobiphenyl	134	S1+	43 - 130				05/14/24 14:30	05/18/24 01:39	1
2-Fluorophenol (Surr)	83		19 - 120				05/10/24 10:20	05/11/24 01:16	1
2-Fluorophenol (Surr)	121	S1+	19 - 120				05/14/24 14:30	05/18/24 01:39	1
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133				05/10/24 10:20	05/11/24 01:16	1
Nitrobenzene-d5 (Surr)	152	S1+	37 - 133				05/14/24 14:30	05/18/24 01:39	1
Phenol-d5 (Surr)	53		8 - 124				05/10/24 10:20	05/11/24 01:16	1
Phenol-d5 (Surr)	91		8 - 124				05/14/24 14:30	05/18/24 01:39	1
p-Terphenyl-d14	103		47 - 130				05/10/24 10:20	05/11/24 01:16	1
p-Terphenyl-d14	141	S1+	47 - 130				05/14/24 14:30	05/18/24 01:39	1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

**Date Collected: 05/07/24 14:23**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 12:48	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 12:48	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 12:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 12:48	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 12:48	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 12:48	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 12:48	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 12:48	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 12:48	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 12:48	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 12:48	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 12:48	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 12:48	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 12:48	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 12:48	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 12:48	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 12:48	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 12:48	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 12:48	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 12:48	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 12:48	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 12:48	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 12:48	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 12:48	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 12:48	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 12:48	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 12:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

Date Collected: 05/07/24 14:23

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 12:48	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 12:48	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 12:48	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 12:48	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 12:48	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 12:48	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 12:48	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 12:48	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 12:48	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 12:48	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 12:48	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 12:48	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 12:48	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 12:48	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 12:48	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 12:48	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 12:48	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 12:48	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 12:48	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 12:48	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 12:48	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 12:48	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 12:48	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 12:48	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 12:48	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 12:48	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 12:48	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 12:48	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 12:48	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 12:48	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 12:48	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 12:48	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 12:48	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 12:48	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 12:48	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 12:48	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 12:48	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 12:48	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 12:48	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 12:48	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 12:48	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/13/24 12:48	1
Dibromofluoromethane (Surr)	101		75 - 131		05/13/24 12:48	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 12:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

Date Collected: 05/07/24 14:23

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 17:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	106		63 - 144				05/14/24 17:54	05/14/24 17:54	1
4-Bromofluorobenzene (Surr)	97		74 - 124				05/14/24 17:54	05/14/24 17:54	1
Dibromofluoromethane (Surr)	111		75 - 131				05/14/24 17:54	05/14/24 17:54	1
Toluene-d8 (Surr)	100		80 - 120				05/14/24 17:54	05/14/24 17:54	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 03:50	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 02:08	1
<b>1,4-Dioxane</b>	<b>0.101</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 02:08	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 01:46	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 02:08	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 01:46	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 02:08	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

**Date Collected: 05/07/24 14:23**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 01:46	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 02:08	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 01:46	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:08	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 01:46	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 02:08	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 01:46	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 02:08	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 01:46	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 02:08	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 01:46	1
<b>Benzo[a]anthracene</b>	<b>0.0138</b>	<b>J I B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 02:08	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 01:46	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 02:08	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 01:46	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 02:08	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 01:46	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 02:08	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 01:46	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 02:08	1
<b>Benzyl alcohol</b>	<b>1.27</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 01:46	1
<b>Benzyl alcohol</b>	<b>0.623</b>	<b>J B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 02:08	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 01:46	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 02:08	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 01:46	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 02:08	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 01:46	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 02:08	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 01:46	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:08	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 01:46	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 02:08	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 01:46	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 02:08	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 01:46	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:08	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 01:46	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 02:08	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 01:46	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

**Date Collected: 05/07/24 14:23**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 02:08	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 01:46	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 02:08	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 01:46	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 02:08	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 01:46	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 02:08	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 01:46	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 02:08	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 01:46	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 02:08	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 01:46	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 02:08	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 01:46	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 02:08	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 01:46	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:08	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:46	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:08	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 01:46	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:08	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 01:46	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 02:08	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 01:46	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 02:08	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 01:46	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 02:08	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 01:46	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 02:08	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 01:46	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 02:08	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 01:46	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 02:08	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 01:46	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 02:08	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 05:07	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 02:08	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 01:46	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 02:08	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

Date Collected: 05/07/24 14:23

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 01:46	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 02:08	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 01:46	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 02:08	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 01:46	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:08	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 01:46	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 02:08	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 01:46	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 02:08	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 01:46	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 02:08	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 01:46	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 02:08	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 01:46	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:08	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 01:46	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 02:08	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 01:46	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:08	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 01:46	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 02:08	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 01:46	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 02:08	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 01:46	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:08	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 01:46	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:08	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 01:46	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:08	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 01:46	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

**Date Collected: 05/07/24 14:23**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:08	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 01:46	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:08	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 01:46	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 02:08	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 01:46	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 02:08	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 01:46	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 02:08	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 01:46	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 02:08	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 01:46	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 02:08	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 01:46	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 02:08	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 01:46	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 02:08	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 01:46	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:08	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 01:46	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 02:08	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 01:46	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:08	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 01:46	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 02:08	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 01:46	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 02:08	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 01:46	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 02:08	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 01:46	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 02:08	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 01:46	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 02:08	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 01:46	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 02:08	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:46	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:08	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:46	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:08	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

Date Collected: 05/07/24 14:23

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 01:46	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 02:08	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 01:46	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:08	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 01:46	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:08	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 01:46	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 02:08	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 01:46	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 02:08	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 01:46	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	146	S1+	35 - 130	05/10/24 10:20	05/11/24 01:46	1
2,4,6-Tribromophenol (Surr)	113		35 - 130	05/14/24 14:30	05/18/24 02:08	1
2-Fluorobiphenyl	120		43 - 130	05/10/24 10:20	05/11/24 01:46	1
2-Fluorobiphenyl	114		43 - 130	05/14/24 14:30	05/18/24 02:08	1
2-Fluorophenol (Surr)	78		19 - 120	05/10/24 10:20	05/11/24 01:46	1
2-Fluorophenol (Surr)	104		19 - 120	05/14/24 14:30	05/18/24 02:08	1
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133	05/10/24 10:20	05/11/24 01:46	1
Nitrobenzene-d5 (Surr)	149	S1+	37 - 133	05/14/24 14:30	05/18/24 02:08	1
Phenol-d5 (Surr)	47		8 - 124	05/10/24 10:20	05/11/24 01:46	1
Phenol-d5 (Surr)	73		8 - 124	05/14/24 14:30	05/18/24 02:08	1
p-Terphenyl-d14	101		47 - 130	05/10/24 10:20	05/11/24 01:46	1
p-Terphenyl-d14	102		47 - 130	05/14/24 14:30	05/18/24 02:08	1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 14:31	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 14:31	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 14:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 14:31	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 14:31	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 14:31	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 14:31	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 14:31	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.544</b>	<b>J</b>	1.00	0.417	ug/L			05/13/24 14:31	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 14:31	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 14:31	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 14:31	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 14:31	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.470</b>	<b>J</b>	1.00	0.411	ug/L			05/13/24 14:31	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 14:31	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 14:31	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 14:31	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 14:31	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 14:31	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 14:31	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 14:31	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 14:31	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 14:31	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 14:31	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 14:31	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 14:31	1
<b>Benzene</b>	<b>8.55</b>		1.00	0.460	ug/L			05/13/24 14:31	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 14:31	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 14:31	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 14:31	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 14:31	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 14:31	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 14:31	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 14:31	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 14:31	1
<b>Chloroform</b>	<b>0.727</b>	<b>J</b>	1.00	0.464	ug/L			05/13/24 14:31	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 14:31	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 14:31	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 14:31	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 14:31	1
<b>Cumene (isopropylbenzene)</b>	<b>6.86</b>		1.00	0.592	ug/L			05/13/24 14:31	1
<b>Cyclohexane</b>	<b>18.2</b>		5.00	1.29	ug/L			05/13/24 14:31	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 14:31	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 14:31	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 14:31	1
<b>Ethylbenzene</b>	<b>5.37</b>		1.00	0.385	ug/L			05/13/24 14:31	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 14:31	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 14:31	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 14:31	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 14:31	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 14:31	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 14:31	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 14:31	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 14:31	1
<b>Propylbenzene</b>	<b>9.35</b>		1.00	0.429	ug/L			05/13/24 14:31	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 14:31	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 14:31	1
<b>Toluene</b>	<b>2.15</b>		1.00	0.475	ug/L			05/13/24 14:31	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 14:31	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 14:31	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 14:31	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 14:31	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 14:31	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 14:31	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 14:31	1
<b>Xylenes, Total</b>	<b>6.26</b>	<b>J</b>	10.0	1.24	ug/L			05/13/24 14:31	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>m,p-Xylenes</b>	<b>0.00466</b>	<b>J</b>	0.0100	0.00124	mg/L			05/13/24 14:31	1
<b>o-Xylene</b>	<b>0.00160</b>		0.00100	0.000502	mg/L			05/13/24 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144					05/13/24 14:31	1
4-Bromofluorobenzene (Surr)	102		74 - 124					05/13/24 14:31	1
Dibromofluoromethane (Surr)	100		75 - 131					05/13/24 14:31	1
Toluene-d8 (Surr)	102		80 - 120					05/13/24 14:31	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144					05/14/24 18:15	1
4-Bromofluorobenzene (Surr)	98		74 - 124					05/14/24 18:15	1
Dibromofluoromethane (Surr)	111		75 - 131					05/14/24 18:15	1
Toluene-d8 (Surr)	100		80 - 120					05/14/24 18:15	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 04:21	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,4,5-Trichlorophenol	<0.143	U**	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,4,6-Trichlorophenol	<0.231	U**	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,4-Dichlorophenol	<0.140	U**	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>1,4-Dioxane</b>	<b>0.0892</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,4-Dinitrotoluene	<0.205	U**	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,4-Dinitrotoluene	<0.205	U**	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,6-Dinitrotoluene	<0.116	U**	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,6-Dinitrotoluene	<0.116	U**	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Chloronaphthalene	<0.378	U**	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>2-Methylnaphthalene</b>	<b>3.23</b>		0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 02:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>2-Methylnaphthalene</b>	<b>2.89</b>		0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 02:36	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 02:17	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 02:36	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 02:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 02:36	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 02:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 02:36	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 02:17	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:36	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 02:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 02:36	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 02:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 02:36	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 02:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 02:36	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 02:17	1
<b>Benzo[a]anthracene</b>	<b>0.0156</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 02:36	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 02:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 02:36	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 02:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 02:36	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 02:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 02:36	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 02:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>Benzyl alcohol</b>	<b>1.56</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 02:17	1
<b>Benzyl alcohol</b>	<b>1.13</b>	<b>J I B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 02:36	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 02:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 02:36	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 02:17	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 02:36	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 02:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 02:36	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 02:17	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:36	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 02:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 02:36	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 02:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 02:36	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 02:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:36	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 02:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 02:36	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 02:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 02:36	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 02:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 02:36	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 02:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 02:36	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 02:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>Fluorene</b>	<b>0.235</b>	<b>J</b>	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 02:17	1
<b>Fluorene</b>	<b>0.244</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 02:36	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 02:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 02:36	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 02:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 02:36	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 02:17	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 02:36	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 02:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 02:36	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:36	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 02:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>Naphthalene</b>	<b>8.15</b>		0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 02:17	1
<b>Naphthalene</b>	<b>7.95</b>	<b>**</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 02:36	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 02:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 02:36	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 02:17	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 02:36	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 02:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 02:36	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 02:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 02:36	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 02:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 02:36	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 02:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>Acetophenone</b>	<b>0.763</b>	<b>J</b>	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 05:35	1
<b>Acetophenone</b>	<b>0.753</b>	<b>J I</b>	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 02:36	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 02:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 02:36	1
<b>Diphenyl ether</b>	<b>0.144</b>	<b>J I</b>	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 02:17	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 02:36	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 02:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 02:36	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 02:17	1
1-Naphthylamine	<0.149	U * *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 02:36	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 02:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Naphthylamine	<0.288	U * *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 02:36	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 02:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 02:36	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 02:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 02:36	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 02:17	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 02:36	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 02:17	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 02:36	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 02:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 02:36	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 02:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:36	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 02:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 02:36	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 02:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 02:36	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 02:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:36	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 02:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 02:36	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 02:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:36	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 02:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 02:36	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 02:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 02:36	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 02:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 02:36	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 02:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 02:36	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 02:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 02:36	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 02:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 02:36	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 02:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 02:36	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 02:17	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 02:36	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 02:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 02:36	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 02:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:36	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 02:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 02:36	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 02:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 02:36	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 02:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 02:36	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 02:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 02:36	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 02:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 02:17	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Lab Sample ID: 860-73920-4**

Date Collected: 05/07/24 14:57

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 02:36	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 02:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 02:36	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 02:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 02:36	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 02:17	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 02:36	1
Pentachloronitrobenzene	<0.100	U *	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:17	1
Pentachloronitrobenzene	<0.100	U *	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:36	1
Phenacetin	<0.100	U *	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:17	1
Phenacetin	<0.100	U *	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:36	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 02:17	1
Phorate	<0.221	U *	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 02:36	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 02:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 02:36	1
Pronamide	<0.100	U *	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:17	1
Pronamide	<0.100	U *	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 02:36	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 02:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 02:36	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 02:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 02:36	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 02:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130	05/10/24 10:20	05/11/24 02:17	1
2,4,6-Tribromophenol (Surr)	119		35 - 130	05/14/24 14:30	05/18/24 02:36	1
2-Fluorobiphenyl	115		43 - 130	05/10/24 10:20	05/11/24 02:17	1
2-Fluorobiphenyl	109		43 - 130	05/14/24 14:30	05/18/24 02:36	1
2-Fluorophenol (Surr)	85		19 - 120	05/10/24 10:20	05/11/24 02:17	1
2-Fluorophenol (Surr)	115		19 - 120	05/14/24 14:30	05/18/24 02:36	1
Nitrobenzene-d5 (Surr)	183	S1+	37 - 133	05/10/24 10:20	05/11/24 02:17	1
Nitrobenzene-d5 (Surr)	145	S1+	37 - 133	05/14/24 14:30	05/18/24 02:36	1
Phenol-d5 (Surr)	53		8 - 124	05/10/24 10:20	05/11/24 02:17	1
Phenol-d5 (Surr)	87		8 - 124	05/14/24 14:30	05/18/24 02:36	1
p-Terphenyl-d14	118		47 - 130	05/10/24 10:20	05/11/24 02:17	1
p-Terphenyl-d14	125		47 - 130	05/14/24 14:30	05/18/24 02:36	1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 13:09	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 13:09	1
1,1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 13:09	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 13:09	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 13:09	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 13:09	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 13:09	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 13:09	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 13:09	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 13:09	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 13:09	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 13:09	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 13:09	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 13:09	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 13:09	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 13:09	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 13:09	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 13:09	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 13:09	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 13:09	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 13:09	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 13:09	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 13:09	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 13:09	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 13:09	1
<b>Benzene</b>	<b>14.2</b>		1.00	0.460	ug/L			05/13/24 13:09	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 13:09	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 13:09	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 13:09	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 13:09	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 13:09	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 13:09	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 13:09	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 13:09	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 13:09	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 13:09	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 13:09	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 13:09	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 13:09	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 13:09	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 13:09	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 13:09	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 13:09	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 13:09	1
<b>Ethylbenzene</b>	<b>0.683</b>	<b>J</b>	1.00	0.385	ug/L			05/13/24 13:09	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 13:09	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 13:09	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 13:09	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 13:09	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 13:09	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 13:09	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 13:09	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 13:09	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 13:09	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 13:09	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 13:09	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 13:09	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 13:09	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 13:09	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 13:09	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 13:09	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 13:09	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 13:09	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 13:09	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 13:09	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 13:09	1
<b>o-Xylene</b>	<b>0.000811</b>	<b>J</b>	0.00100	0.000502	mg/L			05/13/24 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 13:09	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/13/24 13:09	1
Dibromofluoromethane (Surr)	101		75 - 131		05/13/24 13:09	1
Toluene-d8 (Surr)	102		80 - 120		05/13/24 13:09	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		05/14/24 18:35	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 18:35	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 18:35	1
Toluene-d8 (Surr)	102		80 - 120		05/14/24 18:35	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 04:51	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 02:47	1
<b>2,4-Dichlorophenol</b>	<b>0.141</b>	<b>J I **</b>	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 03:05	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 03:05	1
<b>2-Methylnaphthalene</b>	<b>0.106</b>	<b>J</b>	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 02:47	1
<b>2-Methylnaphthalene</b>	<b>0.0644</b>	<b>J</b>	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 03:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 02:47	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 03:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 02:47	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 03:05	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 02:47	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 03:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 02:47	1
<b>Acenaphthene</b>	<b>0.108</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 03:05	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 02:47	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 03:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 02:47	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 03:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 02:47	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 03:05	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 02:47	1
<b>Benzo[a]anthracene</b>	<b>0.0111</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 03:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 02:47	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 03:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 02:47	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 03:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 02:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 03:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 02:47	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 03:05	1
<b>Benzy alcohol</b>	<b>1.17</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 02:47	1
Benzy alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 03:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 02:47	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 03:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 02:47	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 03:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 02:47	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 03:05	1
Butyl benzy phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 02:47	1
Butyl benzy phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 03:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 02:47	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 03:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 02:47	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 03:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 02:47	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 03:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 02:47	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 03:05	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 02:47	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 03:05	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 02:47	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 03:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 02:47	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 03:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 02:47	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 03:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 02:47	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 03:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 02:47	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 03:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 02:47	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 03:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 02:47	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 03:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 02:47	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 03:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:47	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 02:47	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 03:05	1
<b>Naphthalene</b>	<b>1.89</b>		0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 02:47	1
<b>Naphthalene</b>	<b>1.98</b>	<b>**</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 03:05	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 02:47	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 03:05	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 03:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 02:47	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 03:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 02:47	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 03:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 02:47	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 03:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 02:47	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 03:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 02:47	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 03:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 06:03	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 03:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 02:47	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 03:05	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 02:47	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 03:05	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 02:47	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 03:05	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 02:47	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 03:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 02:47	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 02:47	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 03:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 02:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 03:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 02:47	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 03:05	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 02:47	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 03:05	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 02:47	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 03:05	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 02:47	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 03:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 02:47	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 03:05	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 02:47	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 03:05	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 02:47	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 03:05	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 02:47	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 03:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 02:47	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 03:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 02:47	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 03:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 02:47	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 03:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 02:47	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 03:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 02:47	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 03:05	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 02:47	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 03:05	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 02:47	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 03:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 02:47	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 03:05	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 02:47	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 03:05	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 02:47	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 03:05	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 02:47	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 03:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 02:47	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 03:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 02:47	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 03:05	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 02:47	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 03:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 02:47	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 03:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 02:47	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 03:05	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-67**

**Lab Sample ID: 860-73920-5**

Date Collected: 05/07/24 15:09

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 02:47	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 03:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 02:47	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 03:05	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 02:47	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 03:05	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 02:47	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 03:05	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:47	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:05	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:47	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:05	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 02:47	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 03:05	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 02:47	1
p-Phenylene diamine	<0.500	U * -1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 03:05	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 02:47	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:05	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 02:47	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 03:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 02:47	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 03:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 02:47	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130	05/10/24 10:20	05/11/24 02:47	1
2,4,6-Tribromophenol (Surr)	116		35 - 130	05/14/24 14:30	05/18/24 03:05	1
2-Fluorobiphenyl	112		43 - 130	05/10/24 10:20	05/11/24 02:47	1
2-Fluorobiphenyl	110		43 - 130	05/14/24 14:30	05/18/24 03:05	1
2-Fluorophenol (Surr)	82		19 - 120	05/10/24 10:20	05/11/24 02:47	1
2-Fluorophenol (Surr)	99		19 - 120	05/14/24 14:30	05/18/24 03:05	1
Nitrobenzene-d5 (Surr)	173	S1+	37 - 133	05/10/24 10:20	05/11/24 02:47	1
Nitrobenzene-d5 (Surr)	143	S1+	37 - 133	05/14/24 14:30	05/18/24 03:05	1
Phenol-d5 (Surr)	52		8 - 124	05/10/24 10:20	05/11/24 02:47	1
Phenol-d5 (Surr)	68		8 - 124	05/14/24 14:30	05/18/24 03:05	1
p-Terphenyl-d14	114		47 - 130	05/10/24 10:20	05/11/24 02:47	1
p-Terphenyl-d14	108		47 - 130	05/14/24 14:30	05/18/24 03:05	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: TB-03 (050724)**

**Lab Sample ID: 860-73920-6**

Date Collected: 05/07/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 10:25	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 10:25	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 10:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 10:25	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 10:25	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 10:25	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 10:25	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 10:25	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 10:25	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 10:25	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 10:25	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 10:25	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 10:25	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 10:25	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 10:25	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 10:25	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 10:25	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 10:25	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 10:25	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 10:25	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 10:25	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 10:25	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 10:25	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 10:25	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 10:25	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 10:25	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 10:25	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 10:25	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 10:25	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 10:25	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 10:25	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 10:25	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 10:25	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 10:25	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 10:25	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 10:25	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 10:25	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 10:25	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 10:25	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 10:25	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 10:25	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 10:25	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 10:25	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 10:25	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 10:25	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 10:25	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 10:25	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 10:25	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 10:25	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: TB-03 (050724)**

**Lab Sample ID: 860-73920-6**

Date Collected: 05/07/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 10:25	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 10:25	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 10:25	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 10:25	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 10:25	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 10:25	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 10:25	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 10:25	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 10:25	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 10:25	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 10:25	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 10:25	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 10:25	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 10:25	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 10:25	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 10:25	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 10:25	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 10:25	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 10:25	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/13/24 10:25	1
Dibromofluoromethane (Surr)	100		75 - 131		05/13/24 10:25	1
Toluene-d8 (Surr)	99		80 - 120		05/13/24 10:25	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		05/14/24 18:56	1
4-Bromofluorobenzene (Surr)	96		74 - 124		05/14/24 18:56	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 18:56	1
Toluene-d8 (Surr)	99		80 - 120		05/14/24 18:56	1

# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-73918-C-1 MS	Matrix Spike	95	101	99	101
860-73920-1	MW-70	97	101	102	100
860-73920-1 - RA	MW-70	106	97	113	98
860-73920-2	MW-71	100	100	101	101
860-73920-2 - RA	MW-71	109	97	112	99
860-73920-3	MW-72	99	100	101	101
860-73920-3 - RA	MW-72	106	97	111	100
860-73920-4	MW-65	98	102	100	102
860-73920-4 - RA	MW-65	102	98	111	100
860-73920-5	MW-67	99	98	101	102
860-73920-5 - RA	MW-67	107	100	113	102
860-73920-6	TB-03 (050724)	99	99	100	99
860-73920-6 - RA	TB-03 (050724)	106	96	113	99
880-43280-A-17 MSD	Matrix Spike Duplicate	100	101	109	100
880-43280-C-17 MS	Matrix Spike	97	100	108	99
LCS 860-159779/3	Lab Control Sample	95	99	100	99
LCS 860-160047/3	Lab Control Sample	100	101	110	101
LCSD 860-159779/4	Lab Control Sample Dup	95	99	98	100
LCSD 860-160047/4	Lab Control Sample Dup	98	100	109	100
MB 860-159779/9	Method Blank	99	100	99	101
MB 860-160047/10	Method Blank	102	99	113	100

**Surrogate Legend**

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-73920-1	MW-70	143 S1+	109	88	181 S1+	59	103
860-73920-1	MW-70	118	122	115	149 S1+	85	131 S1+
860-73920-2	MW-71	136 S1+	114	83	178 S1+	53	103
860-73920-2	MW-71	132 S1+	134 S1+	121 S1+	152 S1+	91	141 S1+
860-73920-3	MW-72	146 S1+	120	78	182 S1+	47	101
860-73920-3	MW-72	113	114	104	149 S1+	73	102
860-73920-4	MW-65	163 S1+	115	85	183 S1+	53	118
860-73920-4	MW-65	119	109	115	145 S1+	87	125
860-73920-5	MW-67	148 S1+	112	82	173 S1+	52	114
860-73920-5	MW-67	116	110	99	143 S1+	68	108
LCS 860-159586/2-A	Lab Control Sample	164 S1+	124	83	199 S1+	56	110
LCS 860-159586/4-A	Lab Control Sample	138 S1+	111	80	184 S1+	56	105
LCS 860-160172/2-A	Lab Control Sample	153 S1+	130	93	206 S1+	59	124
LCS 860-160172/4-A	Lab Control Sample	149 S1+	126	83	185 S1+	56	124
LCSD 860-159586/3-A	Lab Control Sample Dup	145 S1+	107	83	182 S1+	53	104
LCSD 860-159586/5-A	Lab Control Sample Dup	148 S1+	117	66	176 S1+	45	113

# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
LCSD 860-160172/3-A	Lab Control Sample Dup	162 S1+	136 S1+	98	211 S1+	61	121
LCSD 860-160172/5-A	Lab Control Sample Dup	163 S1+	147 S1+	84	204 S1+	57	127
MB 860-159586/1-A	Method Blank	154 S1+	122	77	178 S1+	50	111
MB 860-160172/1-A	Method Blank	134 S1+	117	78	171 S1+	33	121

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-159779/9**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/13/24 09:23	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/13/24 09:23	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/13/24 09:23	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/13/24 09:23	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/13/24 09:23	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/13/24 09:23	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/13/24 09:23	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/13/24 09:23	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/13/24 09:23	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/13/24 09:23	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/13/24 09:23	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/13/24 09:23	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/13/24 09:23	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/13/24 09:23	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/13/24 09:23	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/13/24 09:23	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/13/24 09:23	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/13/24 09:23	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/13/24 09:23	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/13/24 09:23	1
Acetone	<3.07	U	100	3.07	ug/L			05/13/24 09:23	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/13/24 09:23	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/13/24 09:23	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/13/24 09:23	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/13/24 09:23	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/13/24 09:23	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/13/24 09:23	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/13/24 09:23	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/13/24 09:23	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/13/24 09:23	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/13/24 09:23	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/13/24 09:23	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/13/24 09:23	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/13/24 09:23	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/13/24 09:23	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/13/24 09:23	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/13/24 09:23	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/13/24 09:23	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/13/24 09:23	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/13/24 09:23	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/13/24 09:23	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/13/24 09:23	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/13/24 09:23	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/13/24 09:23	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/13/24 09:23	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/13/24 09:23	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/13/24 09:23	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-159779/9**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/13/24 09:23	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/13/24 09:23	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/13/24 09:23	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/13/24 09:23	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/13/24 09:23	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/13/24 09:23	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/13/24 09:23	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/13/24 09:23	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/13/24 09:23	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/13/24 09:23	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/13/24 09:23	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/13/24 09:23	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/13/24 09:23	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/13/24 09:23	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/13/24 09:23	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/13/24 09:23	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/13/24 09:23	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/13/24 09:23	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/13/24 09:23	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/13/24 09:23	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/13/24 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/13/24 09:23	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/13/24 09:23	1
Dibromofluoromethane (Surr)	99		75 - 131		05/13/24 09:23	1
Toluene-d8 (Surr)	101		80 - 120		05/13/24 09:23	1

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.37		ug/L		109	72 - 125
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.59		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.13		ug/L		100	60 - 140
1,1,2-Trichloroethane	50.0	51.82		ug/L		104	75 - 130
1,1-Dichloroethane	50.0	50.69		ug/L		101	71 - 130
1,1-Dichloroethene	50.0	48.83		ug/L		98	50 - 150
1,2,3-Trichloropropane	50.0	55.10		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	50.0	52.93		ug/L		106	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	58.12		ug/L		116	59 - 125
1,2-Dibromoethane	50.0	53.71		ug/L		107	73 - 125
1,2-Dichloroethane	50.0	49.27		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	53.43		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	52.33		ug/L		105	60 - 140
1,3-Butadiene	50.0	50.94		ug/L		102	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-159779/3**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	52.69		ug/L		105	70 - 130
2-Butanone (MEK)	250	255.2		ug/L		102	60 - 140
2-Hexanone (MBK)	250	266.4		ug/L		107	60 - 140
2-Propanol	500	448.0		ug/L		90	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.75		ug/L		86	70 - 130
4-Methyl-2-pentanone	250	260.1		ug/L		104	60 - 140
Acetone	250	233.1		ug/L		93	60 - 140
Acetonitrile	500	456.3		ug/L		91	60 - 140
Acrolein	250	200.7		ug/L		80	60 - 140
Acrylonitrile	500	481.4		ug/L		96	60 - 140
alpha-Chlorotoluene	50.0	56.22		ug/L		112	75 - 125
Benzene	50.0	53.62		ug/L		107	75 - 125
Bromodichloromethane	50.0	53.78		ug/L		108	75 - 125
Bromoform	50.0	57.06		ug/L		114	70 - 130
Bromomethane	50.0	46.33		ug/L		93	60 - 140
Carbon disulfide	50.0	53.46		ug/L		107	60 - 140
Carbon tetrachloride	50.0	54.20		ug/L		108	70 - 125
Chlorobenzene	50.0	52.76		ug/L		106	82 - 135
Chlorodibromomethane	50.0	56.05		ug/L		112	73 - 125
Chloroethane	50.0	47.82		ug/L		96	60 - 140
Chloroform	50.0	51.43		ug/L		103	70 - 121
Chloromethane	50.0	50.47		ug/L		101	60 - 140
Chloroprene	50.0	50.33		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	52.40		ug/L		105	75 - 125
cis-1,3-Dichloropropene	50.0	54.21		ug/L		108	74 - 125
Cumene (isopropylbenzene)	50.0	53.42		ug/L		107	75 - 125
Cyclohexane	50.0	48.50		ug/L		97	70 - 130
Dibromomethane	50.0	50.81		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	53.67		ug/L		107	50 - 150
Ethyl methacrylate	50.0	53.45		ug/L		107	70 - 130
Ethylbenzene	50.0	54.03		ug/L		108	75 - 125
Hexane	50.0	51.58		ug/L		103	72 - 125
Iodomethane	50.0	43.48		ug/L		87	75 - 125
Isobutanol	1240	1307		ug/L		105	60 - 140
Methacrylonitrile	500	515.6		ug/L		103	70 - 130
Methyl methacrylate	100	108.6		ug/L		109	70 - 130
Methyl tert-butyl ether	50.0	49.06		ug/L		98	65 - 135
Methylene Chloride	50.0	48.78		ug/L		98	71 - 125
Propionitrile	500	523.1		ug/L		105	70 - 130
Propylbenzene	50.0	52.48		ug/L		105	75 - 125
Styrene	50.0	54.00		ug/L		108	75 - 125
Tetrachloroethene	50.0	55.96		ug/L		112	71 - 125
Tetrahydrofuran	100	<1.83	U *-	ug/L		0	75 - 125
Toluene	50.0	53.17		ug/L		106	75 - 130
trans-1,2-Dichloroethene	50.0	52.76		ug/L		106	75 - 125
trans-1,3-Dichloropropene	50.0	54.66		ug/L		109	66 - 125
trans-1,4-Dichloro-2-butene	50.0	56.10		ug/L		112	70 - 130
Trichloroethene	50.0	53.08		ug/L		106	75 - 135
Trichlorofluoromethane	50.0	52.26		ug/L		105	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-159779/3**

**Matrix: Water**

**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	250.2		ug/L		100	60 - 140
Vinyl chloride	50.0	49.78		ug/L		100	60 - 140
Xylenes, Total	100	106.4		ug/L		106	75 - 125
m,p-Xylenes	0.0500	0.05329		mg/L		107	75 - 125
o-Xylene	0.0500	0.05313		mg/L		106	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: LCSD 860-159779/4**

**Matrix: Water**

**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	57.03		ug/L		114	72 - 125	5	25
1,1,1-Trichloroethane	50.0	56.72		ug/L		113	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	55.40		ug/L		111	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.61		ug/L		107	60 - 140	7	25
1,1,2-Trichloroethane	50.0	54.29		ug/L		109	75 - 130	5	25
1,1-Dichloroethane	50.0	52.65		ug/L		105	71 - 130	4	25
1,1-Dichloroethene	50.0	50.70		ug/L		101	50 - 150	4	25
1,2,3-Trichloropropane	50.0	59.06		ug/L		118	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	57.38		ug/L		115	75 - 125	8	25
1,2-Dibromo-3-Chloropropane	50.0	61.69		ug/L		123	59 - 125	6	25
1,2-Dibromoethane	50.0	55.66		ug/L		111	73 - 125	4	25
1,2-Dichloroethane	50.0	50.14		ug/L		100	72 - 130	2	25
1,2-Dichloropropane	50.0	53.85		ug/L		108	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	56.40		ug/L		113	60 - 140	7	25
1,3-Butadiene	50.0	53.51		ug/L		107	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	56.76		ug/L		114	70 - 130	7	25
2-Butanone (MEK)	250	271.0		ug/L		108	60 - 140	6	25
2-Hexanone (MBK)	250	273.3		ug/L		109	60 - 140	3	25
2-Propanol	500	486.1		ug/L		97	70 - 120	8	25
3-Chloropropene (Allyl Chloride)	50.0	48.58		ug/L		97	70 - 130	13	25
4-Methyl-2-pentanone	250	262.4		ug/L		105	60 - 140	1	25
Acetone	250	244.8		ug/L		98	60 - 140	5	25
Acetonitrile	500	473.9		ug/L		95	60 - 140	4	25
Acrolein	250	205.8		ug/L		82	60 - 140	3	25
Acrylonitrile	500	489.2		ug/L		98	60 - 140	2	25
alpha-Chlorotoluene	50.0	58.93		ug/L		118	75 - 125	5	25
Benzene	50.0	54.89		ug/L		110	75 - 125	2	25
Bromodichloromethane	50.0	54.09		ug/L		108	75 - 125	1	25
Bromoform	50.0	58.40		ug/L		117	70 - 130	2	25
Bromomethane	50.0	47.80		ug/L		96	60 - 140	3	25
Carbon disulfide	50.0	55.34		ug/L		111	60 - 140	3	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-159779/4**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	59.76		ug/L		120	70 - 125	10	25
Chlorobenzene	50.0	55.03		ug/L		110	82 - 135	4	25
Chlorodibromomethane	50.0	58.21		ug/L		116	73 - 125	4	25
Chloroethane	50.0	47.65		ug/L		95	60 - 140	0	25
Chloroform	50.0	52.62		ug/L		105	70 - 121	2	25
Chloromethane	50.0	51.42		ug/L		103	60 - 140	2	25
Chloroprene	50.0	50.87		ug/L		102	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	53.58		ug/L		107	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	55.39		ug/L		111	74 - 125	2	25
Cumene (isopropylbenzene)	50.0	57.03		ug/L		114	75 - 125	7	25
Cyclohexane	50.0	51.44		ug/L		103	70 - 130	6	25
Dibromomethane	50.0	53.32		ug/L		107	69 - 127	5	25
Dichlorodifluoromethane	50.0	59.33		ug/L		119	50 - 150	10	25
Ethyl methacrylate	50.0	56.46		ug/L		113	70 - 130	5	25
Ethylbenzene	50.0	56.83		ug/L		114	75 - 125	5	25
Hexane	50.0	55.40		ug/L		111	72 - 125	7	25
Iodomethane	50.0	47.27		ug/L		95	75 - 125	8	25
Isobutanol	1240	1430		ug/L		115	60 - 140	9	25
Methacrylonitrile	500	522.5		ug/L		105	70 - 130	1	25
Methyl methacrylate	100	108.5		ug/L		109	70 - 130	0	25
Methyl tert-butyl ether	50.0	50.89		ug/L		102	65 - 135	4	25
Methylene Chloride	50.0	48.54		ug/L		97	71 - 125	1	25
Propionitrile	500	554.1		ug/L		111	70 - 130	6	25
Propylbenzene	50.0	57.46		ug/L		115	75 - 125	9	25
Styrene	50.0	56.10		ug/L		112	75 - 125	4	25
Tetrachloroethene	50.0	59.90		ug/L		120	71 - 125	7	25
Tetrahydrofuran	100	<1.83	U *	ug/L		0	75 - 125	NC	25
Toluene	50.0	55.73		ug/L		111	75 - 130	5	25
trans-1,2-Dichloroethene	50.0	54.29		ug/L		109	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	57.36		ug/L		115	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	57.60		ug/L		115	70 - 130	3	25
Trichloroethene	50.0	55.58		ug/L		111	75 - 135	5	25
Trichlorofluoromethane	50.0	55.95		ug/L		112	60 - 140	7	25
Vinyl acetate	250	244.6		ug/L		98	60 - 140	2	25
Vinyl chloride	50.0	53.21		ug/L		106	60 - 140	7	25
Xylenes, Total	100	112.3		ug/L		112	75 - 125	5	25
m,p-Xylenes	0.0500	0.05641		mg/L		113	75 - 125	6	25
o-Xylene	0.0500	0.05586		mg/L		112	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	100		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73918-C-1 MS**

**Matrix: Water**

**Analysis Batch: 159779**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	55.13		ug/L		110	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	50.05		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	52.40		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	34.40		ug/L		69	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.72		ug/L		103	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.50		ug/L		93	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	37.52		ug/L		75	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	54.78		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	54.49		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	57.32		ug/L		115	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	53.26		ug/L		107	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.83		ug/L		94	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	51.34		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	53.41		ug/L		107	70 - 125
1,3-Butadiene	<0.568	U	50.0	44.01		ug/L		88	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	42.09		ug/L		84	70 - 130
2-Butanone (MEK)	<8.28	U	250	253.5		ug/L		101	60 - 140
2-Hexanone (MBK)	<7.45	U	250	258.0		ug/L		103	60 - 140
2-Propanol	<5.23	U	500	476.3		ug/L		95	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	37.36		ug/L		75	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	249.4		ug/L		100	60 - 140
Acetone	<3.07	U	250	233.1		ug/L		93	60 - 140
Acetonitrile	<14.6	U	500	425.8		ug/L		85	60 - 140
Acrolein	<11.1	U	250	150.8		ug/L		60	50 - 150
Acrylonitrile	<14.3	U	500	450.6		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	55.17		ug/L		110	70 - 130
Benzene	<0.460	U	50.0	51.06		ug/L		102	66 - 142
Bromodichloromethane	<0.552	U	50.0	52.47		ug/L		105	75 - 125
Bromoform	<0.633	U	50.0	56.17		ug/L		112	75 - 125
Bromomethane	<1.42	U	50.0	41.98		ug/L		84	60 - 140
Carbon disulfide	<1.65	U	50.0	36.96		ug/L		74	60 - 140
Carbon tetrachloride	<0.896	U	50.0	50.60		ug/L		101	62 - 125
Chlorobenzene	<0.455	U	50.0	52.67		ug/L		105	60 - 133
Chlorodibromomethane	<0.547	U	50.0	55.86		ug/L		112	73 - 125
Chloroethane	<1.98	U	50.0	42.88		ug/L		86	60 - 140
Chloroform	<0.464	U	50.0	48.63		ug/L		97	70 - 130
Chloromethane	<2.04	U	50.0	44.07		ug/L		88	60 - 140
Chloroprene	<0.598	U	50.0	44.51		ug/L		89	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	49.93		ug/L		100	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	54.30		ug/L		109	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	54.56		ug/L		109	75 - 125
Cyclohexane	<1.29	U	50.0	38.14		ug/L		76	70 - 130
Dibromomethane	<0.357	U	50.0	50.63		ug/L		101	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	43.16		ug/L		86	70 - 130
Ethyl methacrylate	<1.12	U	50.0	53.74		ug/L		107	70 - 130
Ethylbenzene	<0.385	U	50.0	54.37		ug/L		109	75 - 125
Hexane	<0.517	U F1	50.0	32.68	F1	ug/L		65	72 - 125
Iodomethane	<6.52	U F1	50.0	36.91	F1	ug/L		74	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73918-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 159779**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1390		ug/L		112	60 - 140
Methacrylonitrile	<2.72	U	500	490.7		ug/L		98	70 - 130
Methyl methacrylate	<2.25	U	100	103.6		ug/L		104	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.68		ug/L		93	65 - 135
Methylene Chloride	<1.73	U	50.0	41.57		ug/L		83	75 - 125
Propionitrile	<3.34	U	500	517.2		ug/L		103	70 - 130
Propylbenzene	<0.429	U	50.0	53.86		ug/L		108	75 - 125
Styrene	<0.619	U	50.0	54.09		ug/L		108	75 - 125
Tetrachloroethene	<0.655	U	50.0	55.55		ug/L		111	71 - 125
Tetrahydrofuran	<1.83	U * - F1	100	<1.83	U F1	ug/L		0	75 - 125
Toluene	<0.475	U	50.0	52.57		ug/L		105	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	45.75		ug/L		92	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	54.24		ug/L		108	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	53.41		ug/L		107	70 - 130
Trichloroethene	<1.50	U	50.0	51.75		ug/L		104	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	45.74		ug/L		91	60 - 140
Vinyl acetate	<2.14	U	250	233.6		ug/L		93	60 - 140
Vinyl chloride	<0.428	U	50.0	44.82		ug/L		90	60 - 140
Xylenes, Total	<1.24	U	100	107.7		ug/L		108	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05378		mg/L		108	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05391		mg/L		108	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 11:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 11:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 11:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 11:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 11:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 11:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 11:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 11:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 11:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 11:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 11:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 11:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 11:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 11:08	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 11:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 11:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 11:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 11:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 11:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 11:08	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 11:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 11:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 11:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 11:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 11:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 11:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 11:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 11:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 11:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 11:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 11:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 11:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 11:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 11:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 11:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 11:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 11:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 11:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 11:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 11:08	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 11:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 11:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 11:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 11:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 11:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 11:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 11:08	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 11:08	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 11:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 11:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 11:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 11:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 11:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 11:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 11:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 11:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 11:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 11:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 11:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 11:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 11:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 11:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 11:08	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160047/10**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 11:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 11:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 11:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 11:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 11:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 11:08	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 11:08	1
Dibromofluoromethane (Surr)	113		75 - 131		05/14/24 11:08	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 11:08	1

**Lab Sample ID: LCS 860-160047/3**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	50.45		ug/L		101	72 - 125
1,1,1-Trichloroethane	50.0	60.14		ug/L		120	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.43		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.04		ug/L		116	60 - 140
1,1,2-Trichloroethane	50.0	51.18		ug/L		102	75 - 130
1,1-Dichloroethane	50.0	55.25		ug/L		111	71 - 130
1,1-Dichloroethene	50.0	49.54		ug/L		99	50 - 150
1,2,3-Trichloropropane	50.0	49.86		ug/L		100	75 - 125
1,2,4-Trimethylbenzene	50.0	51.19		ug/L		102	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	36.73		ug/L		73	59 - 125
1,2-Dibromoethane	50.0	50.27		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	49.52		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	52.60		ug/L		105	74 - 125
1,3,5-Trimethylbenzene	50.0	52.93		ug/L		106	60 - 140
1,3-Butadiene	50.0	58.55		ug/L		117	60 - 150
2,2,4-Trimethylpentane	50.0	52.67		ug/L		105	70 - 130
2-Butanone (MEK)	250	262.7		ug/L		105	60 - 140
2-Hexanone (MBK)	250	223.8		ug/L		90	60 - 140
2-Propanol	500	441.9		ug/L		88	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	53.67		ug/L		107	70 - 130
4-Methyl-2-pentanone	250	229.5		ug/L		92	60 - 140
Acetone	250	249.7		ug/L		100	60 - 140
Acetonitrile	500	500.8		ug/L		100	60 - 140
Acrylonitrile	500	511.9		ug/L		102	60 - 140
alpha-Chlorotoluene	50.0	43.54		ug/L		87	75 - 125
Benzene	50.0	51.82		ug/L		104	75 - 125
Bromodichloromethane	50.0	51.10		ug/L		102	75 - 125
Bromoform	50.0	45.65		ug/L		91	70 - 130
Bromomethane	50.0	62.37		ug/L		125	60 - 140
Carbon disulfide	50.0	53.50		ug/L		107	60 - 140
Carbon tetrachloride	50.0	57.46		ug/L		115	70 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160047/3**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	52.47		ug/L		105	82 - 135
Chlorodibromomethane	50.0	49.03		ug/L		98	73 - 125
Chloroethane	50.0	49.99		ug/L		100	60 - 140
Chloroform	50.0	56.76		ug/L		114	70 - 121
Chloromethane	50.0	54.37		ug/L		109	60 - 140
Chloroprene	50.0	57.25		ug/L		114	70 - 130
cis-1,2-Dichloroethene	50.0	55.48		ug/L		111	75 - 125
cis-1,3-Dichloropropene	50.0	50.95		ug/L		102	74 - 125
Cumene (isopropylbenzene)	50.0	52.18		ug/L		104	75 - 125
Cyclohexane	50.0	58.82		ug/L		118	70 - 130
Dibromomethane	50.0	52.16		ug/L		104	69 - 127
Ethyl methacrylate	50.0	45.89		ug/L		92	70 - 130
Ethylbenzene	50.0	52.79		ug/L		106	75 - 125
Hexane	50.0	52.36		ug/L		105	72 - 125
Iodomethane	50.0	55.68		ug/L		111	75 - 125
Isobutanol	1240	1041		ug/L		84	60 - 140
Methacrylonitrile	500	520.6		ug/L		104	70 - 130
Methyl methacrylate	100	94.78		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	50.40		ug/L		101	65 - 135
Methylene Chloride	50.0	52.66		ug/L		105	71 - 125
Propionitrile	500	516.3		ug/L		103	70 - 130
Propylbenzene	50.0	55.19		ug/L		110	75 - 125
Styrene	50.0	51.31		ug/L		103	75 - 125
Tetrachloroethene	50.0	54.22		ug/L		108	71 - 125
Tetrahydrofuran	100	94.08		ug/L		94	75 - 125
Toluene	50.0	52.30		ug/L		105	75 - 130
trans-1,2-Dichloroethene	50.0	55.32		ug/L		111	75 - 125
trans-1,3-Dichloropropene	50.0	48.80		ug/L		98	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.13		ug/L		94	70 - 130
Trichloroethene	50.0	53.29		ug/L		107	75 - 135
Trichlorofluoromethane	50.0	60.28		ug/L		121	60 - 140
Vinyl acetate	250	268.7		ug/L		107	60 - 140
Vinyl chloride	50.0	56.82		ug/L		114	60 - 140
Xylenes, Total	100	103.4		ug/L		103	75 - 125
m,p-Xylenes	0.0500	0.05192		mg/L		104	75 - 125
o-Xylene	0.0500	0.05143		mg/L		103	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
Toluene-d8 (Surr)	101		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160047/4**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	50.0	47.70		ug/L		95	72 - 125	6	25
1,1,1-Trichloroethane	50.0	55.72		ug/L		111	70 - 130	8	25
1,1,2,2-Tetrachloroethane	50.0	46.58		ug/L		93	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.30		ug/L		103	60 - 140	12	25
1,1,2-Trichloroethane	50.0	48.60		ug/L		97	75 - 130	5	25
1,1-Dichloroethane	50.0	51.89		ug/L		104	71 - 130	6	25
1,1-Dichloroethene	50.0	49.12		ug/L		98	50 - 150	1	25
1,2,3-Trichloropropane	50.0	47.52		ug/L		95	75 - 125	5	25
1,2,4-Trimethylbenzene	50.0	47.66		ug/L		95	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	50.0	34.81		ug/L		70	59 - 125	5	25
1,2-Dibromoethane	50.0	48.36		ug/L		97	73 - 125	4	25
1,2-Dichloroethane	50.0	47.25		ug/L		94	72 - 130	5	25
1,2-Dichloropropane	50.0	49.45		ug/L		99	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	49.17		ug/L		98	60 - 140	7	25
1,3-Butadiene	50.0	51.73		ug/L		103	60 - 150	12	25
2,2,4-Trimethylpentane	50.0	47.55		ug/L		95	70 - 130	10	25
2-Butanone (MEK)	250	250.5		ug/L		100	60 - 140	5	25
2-Hexanone (MBK)	250	212.5		ug/L		85	60 - 140	5	25
2-Propanol	500	420.1		ug/L		84	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	50.0	49.83		ug/L		100	70 - 130	7	25
4-Methyl-2-pentanone	250	220.0		ug/L		88	60 - 140	4	25
Acetone	250	242.6		ug/L		97	60 - 140	3	25
Acetonitrile	500	483.9		ug/L		97	60 - 140	3	25
Acrylonitrile	500	494.1		ug/L		99	60 - 140	4	25
alpha-Chlorotoluene	50.0	40.22		ug/L		80	75 - 125	8	25
Benzene	50.0	49.19		ug/L		98	75 - 125	5	25
Bromodichloromethane	50.0	48.60		ug/L		97	75 - 125	5	25
Bromoform	50.0	43.74		ug/L		87	70 - 130	4	25
Bromomethane	50.0	56.59		ug/L		113	60 - 140	10	25
Carbon disulfide	50.0	48.84		ug/L		98	60 - 140	9	25
Carbon tetrachloride	50.0	54.09		ug/L		108	70 - 125	6	25
Chlorobenzene	50.0	49.50		ug/L		99	82 - 135	6	25
Chlorodibromomethane	50.0	47.29		ug/L		95	73 - 125	4	25
Chloroethane	50.0	41.60		ug/L		83	60 - 140	18	25
Chloroform	50.0	53.37		ug/L		107	70 - 121	6	25
Chloromethane	50.0	49.29		ug/L		99	60 - 140	10	25
Chloroprene	50.0	52.33		ug/L		105	70 - 130	9	25
cis-1,2-Dichloroethene	50.0	51.62		ug/L		103	75 - 125	7	25
cis-1,3-Dichloropropene	50.0	48.55		ug/L		97	74 - 125	5	25
Cumene (isopropylbenzene)	50.0	48.45		ug/L		97	75 - 125	7	25
Cyclohexane	50.0	56.93		ug/L		114	70 - 130	3	25
Dibromomethane	50.0	50.24		ug/L		100	69 - 127	4	25
Dichlorodifluoromethane	50.0	72.79		ug/L		146	50 - 150	15	25
Ethyl methacrylate	50.0	44.88		ug/L		90	70 - 130	2	25
Ethylbenzene	50.0	49.44		ug/L		99	75 - 125	7	25
Hexane	50.0	47.46		ug/L		95	72 - 125	10	25
Iodomethane	50.0	52.26		ug/L		105	75 - 125	6	25
Isobutanol	1240	993.4		ug/L		80	60 - 140	5	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160047/4**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methacrylonitrile	500	502.2		ug/L		100	70 - 130	4	25
Methyl methacrylate	100	91.50		ug/L		91	70 - 130	4	25
Methyl tert-butyl ether	50.0	48.99		ug/L		98	65 - 135	3	25
Methylene Chloride	50.0	50.75		ug/L		102	71 - 125	4	25
Propionitrile	500	501.6		ug/L		100	70 - 130	3	25
Propylbenzene	50.0	51.04		ug/L		102	75 - 125	8	25
Styrene	50.0	48.28		ug/L		97	75 - 125	6	25
Tetrachloroethene	50.0	50.26		ug/L		101	71 - 125	8	25
Tetrahydrofuran	100	89.60		ug/L		90	75 - 125	5	25
Toluene	50.0	49.12		ug/L		98	75 - 130	6	25
trans-1,2-Dichloroethene	50.0	51.51		ug/L		103	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	46.58		ug/L		93	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	44.26		ug/L		89	70 - 130	6	25
Trichloroethene	50.0	49.44		ug/L		99	75 - 135	8	25
Trichlorofluoromethane	50.0	53.81		ug/L		108	60 - 140	11	25
Vinyl acetate	250	255.2		ug/L		102	60 - 140	5	25
Vinyl chloride	50.0	51.32		ug/L		103	60 - 140	10	25
Xylenes, Total	100	97.39		ug/L		97	75 - 125	6	25
m,p-Xylenes	0.0500	0.04879		mg/L		98	75 - 125	6	25
o-Xylene	0.0500	0.04860		mg/L		97	75 - 125	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	109		75 - 131
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: 880-43280-A-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U F1	50.0	37.32		ug/L		75	72 - 125	6	25
1,1,1-Trichloroethane	<0.585	U	50.0	41.30		ug/L		83	75 - 125	5	25
1,1,2,2-Tetrachloroethane	<0.470	U F1	50.0	37.72		ug/L		75	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	32.37		ug/L		65	60 - 140	5	25
1,1,2-Trichloroethane	<0.411	U F1	50.0	38.64		ug/L		77	75 - 127	5	25
1,1-Dichloroethane	<0.635	U	50.0	40.24		ug/L		80	72 - 125	5	25
1,1-Dichloroethene	<0.738	U	50.0	31.79		ug/L		64	59 - 172	3	25
1,2,3-Trichloropropane	<0.470	U F1	50.0	38.53		ug/L		77	75 - 125	8	25
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	36.40	F1	ug/L		73	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	<0.671	U F1	50.0	26.48	F1	ug/L		53	59 - 125	4	25
1,2-Dibromoethane	<0.999	U F1	50.0	38.37		ug/L		77	73 - 125	6	25
1,2-Dichloroethane	<0.372	U	50.0	37.57		ug/L		75	68 - 127	7	25
1,2-Dichloropropane	<0.556	U F1	50.0	39.25		ug/L		79	74 - 125	7	25
1,3,5-Trimethylbenzene	<0.411	U F1	50.0	36.27		ug/L		73	70 - 125	6	25
1,3-Butadiene	<0.568	U F1	50.0	<0.568	U F1	ug/L		0	70 - 150	NC	25
2,2,4-Trimethylpentane	<0.500	U F1	50.0	29.49	F1	ug/L		59	70 - 130	6	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-A-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 160047**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	<8.28	U	250	197.4		ug/L		79	60 - 140	6	25
2-Hexanone (MBK)	<7.45	U	250	165.9		ug/L		66	60 - 140	7	25
2-Propanol	<5.23	U F1	500	340.7	F1	ug/L		68	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	<0.597	U F1 F2	50.0	8.058	F1 F2	ug/L		16	70 - 130	29	25
4-Methyl-2-pentanone	<7.49	U	250	172.2		ug/L		69	60 - 140	6	25
Acetone	<3.07	U	250	184.2		ug/L		74	60 - 140	6	25
Acetonitrile	<14.6	U	500	319.9		ug/L		64	60 - 140	3	25
Acrolein	<11.1	U *- F1	250	115.7	F1	ug/L		46	50 - 150	5	25
Acrylonitrile	<14.3	U	500	382.6		ug/L		77	50 - 150	4	25
alpha-Chlorotoluene	<2.26	U F1	50.0	32.31	F1	ug/L		65	70 - 130	8	25
Benzene	<0.460	U	50.0	37.59		ug/L		75	66 - 142	6	25
Bromodichloromethane	<0.552	U F1	50.0	38.05		ug/L		76	75 - 125	5	25
Bromoform	<0.633	U F1	50.0	34.10	F1	ug/L		68	75 - 125	6	25
Bromomethane	<1.42	U	50.0	56.96		ug/L		114	60 - 140	2	25
Carbon disulfide	<1.65	U	50.0	33.34		ug/L		67	60 - 140	3	25
Carbon tetrachloride	<0.896	U	50.0	38.44		ug/L		77	62 - 125	8	25
Chlorobenzene	<0.455	U	50.0	38.68		ug/L		77	60 - 133	6	25
Chlorodibromomethane	<0.547	U F1	50.0	37.37		ug/L		75	73 - 125	7	25
Chloroethane	<1.98	U	50.0	44.98		ug/L		90	60 - 140	3	25
Chloroform	<0.464	U	50.0	41.56		ug/L		83	70 - 130	5	25
Chloromethane	<2.04	U	50.0	44.15		ug/L		88	60 - 140	0	25
Chloroprene	<0.598	U F1 F2	50.0	7.955	F1 F2	ug/L		16	70 - 130	37	25
cis-1,2-Dichloroethene	<0.457	U	50.0	40.12		ug/L		80	75 - 125	5	25
cis-1,3-Dichloropropene	<1.07	U F1	50.0	38.21		ug/L		76	74 - 125	5	25
Cumene (isopropylbenzene)	<0.592	U F1	50.0	35.10	F1	ug/L		70	75 - 125	6	25
Cyclohexane	<1.29	U F1	50.0	35.88		ug/L		72	70 - 130	6	25
Dibromomethane	<0.357	U	50.0	39.55		ug/L		79	69 - 127	5	25
Dichlorodifluoromethane	<0.785	U *+	50.0	41.81		ug/L		84	70 - 130	4	25
Ethyl methacrylate	<1.12	U F1	50.0	35.18		ug/L		70	70 - 130	7	25
Ethylbenzene	<0.385	U F1	50.0	37.07	F1	ug/L		74	75 - 125	5	25
Hexane	<0.517	U F1	50.0	27.68	F1	ug/L		55	72 - 125	3	25
Iodomethane	<6.52	U	50.0	40.77		ug/L		82	75 - 125	3	25
Isobutanol	<17.1	U F1	1250	788.6		ug/L		63	60 - 140	8	25
Methacrylonitrile	<2.72	U	500	394.9		ug/L		79	70 - 130	5	25
Methyl methacrylate	<2.25	U F1	100	71.93		ug/L		72	70 - 130	6	25
Methyl tert-butyl ether	<1.39	U	50.0	38.64		ug/L		77	65 - 135	5	25
Methylene Chloride	<1.73	U F1	50.0	38.47		ug/L		77	75 - 125	5	25
Propionitrile	<3.34	U	500	395.1		ug/L		79	70 - 130	7	25
Propylbenzene	<0.429	U F1	50.0	37.31		ug/L		75	75 - 125	6	25
Styrene	<0.619	U F1	50.0	1.055	F1	ug/L		2	75 - 125	1	25
Tetrachloroethene	<0.655	U F1	50.0	36.49		ug/L		73	71 - 125	6	25
Tetrahydrofuran	<1.83	U F1	100	70.11	F1	ug/L		70	75 - 125	5	25
Toluene	<0.475	U	50.0	37.66		ug/L		75	59 - 139	6	25
trans-1,2-Dichloroethene	<0.368	U F1	50.0	37.71		ug/L		75	75 - 125	4	25
trans-1,3-Dichloropropene	<1.27	U	50.0	36.55		ug/L		73	66 - 125	6	25
trans-1,4-Dichloro-2-butene	<1.35	U F1	50.0	35.33		ug/L		71	70 - 130	6	25
Trichloroethene	<1.50	U	50.0	37.47		ug/L		75	62 - 137	5	25
Trichlorofluoromethane	<0.560	U	50.0	48.68		ug/L		97	60 - 140	1	25
Vinyl acetate	<2.14	U F1	250	<2.14	U F1	ug/L		0	60 - 140	NC	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-A-17 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	<0.428	U	50.0	45.41		ug/L		91	60 - 140	2	25
Xylenes, Total	<1.24	U F1	100	73.09	F1	ug/L		73	75 - 125	6	25
m,p-Xylenes	<0.00124	U F1	0.0500	0.03658	F1	mg/L		73	75 - 125	6	25
o-Xylene	<0.000502	U F1	0.0500	0.03651	F1	mg/L		73	75 - 125	6	25
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	100		63 - 144								
4-Bromofluorobenzene (Surr)	101		74 - 124								
Dibromofluoromethane (Surr)	109		75 - 131								
Toluene-d8 (Surr)	100		80 - 120								

**Lab Sample ID: 880-43280-C-17 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U F1	50.0	35.03	F1	ug/L		70	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	39.41		ug/L		79	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U F1	50.0	35.32	F1	ug/L		71	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	30.80		ug/L		62	60 - 140
1,1,2-Trichloroethane	<0.411	U F1	50.0	36.77	F1	ug/L		74	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	38.24		ug/L		76	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	30.90		ug/L		62	59 - 172
1,2,3-Trichloropropane	<0.470	U F1	50.0	35.65	F1	ug/L		71	75 - 125
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	34.00	F1	ug/L		68	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U F1	50.0	25.37	F1	ug/L		51	59 - 125
1,2-Dibromoethane	<0.999	U F1	50.0	36.12	F1	ug/L		72	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	35.05		ug/L		70	68 - 127
1,2-Dichloropropane	<0.556	U F1	50.0	36.49	F1	ug/L		73	74 - 125
1,3,5-Trimethylbenzene	<0.411	U F1	50.0	34.05	F1	ug/L		68	70 - 125
1,3-Butadiene	<0.568	U F1	50.0	<0.568	U F1	ug/L		0	70 - 150
2,2,4-Trimethylpentane	<0.500	U F1	50.0	27.82	F1	ug/L		56	70 - 130
2-Butanone (MEK)	<8.28	U	250	185.9		ug/L		74	60 - 140
2-Hexanone (MBK)	<7.45	U	250	154.7		ug/L		62	60 - 140
2-Propanol	<5.23	U F1	500	331.0	F1	ug/L		66	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U F1 F2	50.0	10.75	F1	ug/L		21	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	162.3		ug/L		65	60 - 140
Acetone	<3.07	U	250	173.6		ug/L		69	60 - 140
Acetonitrile	<14.6	U	500	309.1		ug/L		62	60 - 140
Acrolein	<11.1	U *- F1	250	110.0	F1	ug/L		44	50 - 150
Acrylonitrile	<14.3	U	500	365.9		ug/L		73	50 - 150
alpha-Chlorotoluene	<2.26	U F1	50.0	29.95	F1	ug/L		60	70 - 130
Benzene	<0.460	U	50.0	35.48		ug/L		71	66 - 142
Bromodichloromethane	<0.552	U F1	50.0	36.33	F1	ug/L		73	75 - 125
Bromoform	<0.633	U F1	50.0	32.17	F1	ug/L		64	75 - 125
Bromomethane	<1.42	U	50.0	57.89		ug/L		116	60 - 140
Carbon disulfide	<1.65	U	50.0	32.20		ug/L		64	60 - 140
Carbon tetrachloride	<0.896	U	50.0	35.65		ug/L		71	62 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 880-43280-C-17 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160047**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobenzene	<0.455	U	50.0	36.56		ug/L		73	60 - 133
Chlorodibromomethane	<0.547	U F1	50.0	34.96	F1	ug/L		70	73 - 125
Chloroethane	<1.98	U	50.0	43.81		ug/L		88	60 - 140
Chloroform	<0.464	U	50.0	39.46		ug/L		79	70 - 130
Chloromethane	<2.04	U	50.0	44.05		ug/L		88	60 - 140
Chloroprene	<0.598	U F1 F2	50.0	11.61	F1	ug/L		23	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	38.24		ug/L		76	75 - 125
cis-1,3-Dichloropropene	<1.07	U F1	50.0	36.21	F1	ug/L		72	74 - 125
Cumene (isopropylbenzene)	<0.592	U F1	50.0	33.13	F1	ug/L		66	75 - 125
Cyclohexane	<1.29	U F1	50.0	33.82	F1	ug/L		68	70 - 130
Dibromomethane	<0.357	U	50.0	37.59		ug/L		75	69 - 127
Dichlorodifluoromethane	<0.785	U *+	50.0	43.43		ug/L		87	70 - 130
Ethyl methacrylate	<1.12	U F1	50.0	32.95	F1	ug/L		66	70 - 130
Ethylbenzene	<0.385	U F1	50.0	35.09	F1	ug/L		70	75 - 125
Hexane	<0.517	U F1	50.0	26.98	F1	ug/L		54	72 - 125
Iodomethane	<6.52	U	50.0	39.73		ug/L		79	75 - 125
Isobutanol	<17.1	U F1	1240	730.9	F1	ug/L		59	60 - 140
Methacrylonitrile	<2.72	U	500	373.9		ug/L		75	70 - 130
Methyl methacrylate	<2.25	U F1	100	67.99	F1	ug/L		68	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	36.77		ug/L		74	65 - 135
Methylene Chloride	<1.73	U F1	50.0	36.74	F1	ug/L		73	75 - 125
Propionitrile	<3.34	U	500	369.3		ug/L		74	70 - 130
Propylbenzene	<0.429	U F1	50.0	35.10	F1	ug/L		70	75 - 125
Styrene	<0.619	U F1	50.0	1.047	F1	ug/L		2	75 - 125
Tetrachloroethene	<0.655	U F1	50.0	34.34	F1	ug/L		69	71 - 125
Tetrahydrofuran	<1.83	U F1	100	66.94	F1	ug/L		67	75 - 125
Toluene	<0.475	U	50.0	35.59		ug/L		71	59 - 139
trans-1,2-Dichloroethene	<0.368	U F1	50.0	36.31	F1	ug/L		73	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	34.45		ug/L		69	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U F1	50.0	33.20	F1	ug/L		66	70 - 130
Trichloroethene	<1.50	U	50.0	35.49		ug/L		71	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	49.30		ug/L		99	60 - 140
Vinyl acetate	<2.14	U F1	250	<2.14	U F1	ug/L		0	60 - 140
Vinyl chloride	<0.428	U	50.0	46.21		ug/L		92	60 - 140
Xylenes, Total	<1.24	U F1	100	69.08	F1	ug/L		69	75 - 125
m,p-Xylenes	<0.00124	U F1	0.0500	0.03458	F1	mg/L		69	75 - 125
o-Xylene	<0.000502	U F1	0.0500	0.03450	F1	mg/L		69	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	108		75 - 131
Toluene-d8 (Surr)	99		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 18:51	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 18:51	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 18:51	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzyl alcohol	1.398		1.14	0.600	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 18:51	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 18:51	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 18:51	1

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 18:51	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 18:51	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 18:51	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 18:51	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 18:51	1		
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 18:51	1		
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 18:51	1		
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 18:51	1		
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Pronamide	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 18:51	1		
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 18:51	1		

Surrogate	MB	MB	Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/10/24 10:20	05/10/24 18:51	1		
2-Fluorobiphenyl	122		43 - 130	05/10/24 10:20	05/10/24 18:51	1		
2-Fluorophenol (Surr)	77		19 - 120	05/10/24 10:20	05/10/24 18:51	1		
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133	05/10/24 10:20	05/10/24 18:51	1		
Phenol-d5 (Surr)	50		8 - 124	05/10/24 10:20	05/10/24 18:51	1		
p-Terphenyl-d14	111		47 - 130	05/10/24 10:20	05/10/24 18:51	1		

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/13/24 23:29	1		
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/13/24 23:29	1		
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/13/24 23:29	1		
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/13/24 23:29	1		
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/13/24 23:29	1		
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/13/24 23:29	1		
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/13/24 23:29	1		

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/13/24 23:29	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/13/24 23:29	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/13/24 23:29	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/13/24 23:29	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/13/24 23:29	1

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.86	1.665		ug/L		58	32 - 130
1,3-Dichlorobenzene	2.86	1.534		ug/L		54	26 - 130
1,4-Dichlorobenzene	2.86	1.596		ug/L		56	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.594	J	ug/L		91	10 - 173
2,4,5-Trichlorophenol	2.86	3.719		ug/L		130	35 - 130
2,4,6-Trichlorophenol	2.86	3.351		ug/L		117	52 - 129
2,4-Dichlorophenol	2.86	2.943		ug/L		103	53 - 122
2,4-Dimethylphenol	2.86	2.510		ug/L		88	42 - 120
1,4-Dioxane	2.86	1.133		ug/L		40	27 - 130
2,4-Dinitrophenol	2.86	2.576	J	ug/L		90	12 - 173
2,4-Dinitrotoluene	2.86	4.404	*+	ug/L		154	48 - 127
2,6-Dinitrotoluene	2.86	4.576	*+	ug/L		160	68 - 137
2-Chloronaphthalene	2.86	2.325		ug/L		81	10 - 130
2-Methylnaphthalene	2.86	2.260		ug/L		79	25 - 175
2-Methylphenol	2.86	2.511		ug/L		88	14 - 176
2-Nitroaniline	2.86	3.430		ug/L		120	59 - 130
2-Nitrophenol	2.86	4.232		ug/L		148	45 - 167
3 & 4 Methylphenol	2.86	2.085		ug/L		73	22 - 130
3-Nitroaniline	2.86	2.009		ug/L		70	30 - 130
4,6-Dinitro-2-methylphenol	2.86	3.032		ug/L		106	10 - 130
4-Bromophenyl phenyl ether	2.86	2.624		ug/L		92	65 - 120
4-Chloro-3-methylphenol	2.86	3.249		ug/L		114	41 - 128
4-Chloroaniline	2.86	1.660		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.424		ug/L		85	38 - 145
4-Nitroaniline	2.86	2.226		ug/L		78	42 - 125
Acenaphthene	2.86	2.434		ug/L		85	60 - 132
Acenaphthylene	2.86	2.669		ug/L		93	54 - 126
Aniline	2.86	1.292		ug/L		45	15 - 130
Anthracene	2.86	2.450		ug/L		86	43 - 135
Benzo[a]anthracene	2.86	3.143		ug/L		110	42 - 133
Benzo[a]pyrene	2.86	2.715		ug/L		95	32 - 148
Benzo[b]fluoranthene	2.86	3.586		ug/L		126	42 - 140
Benzo[g,h,i]perylene	2.86	2.821		ug/L		99	25 - 195
Benzo[k]fluoranthene	2.86	3.234		ug/L		113	25 - 146
Benzyl alcohol	2.86	3.602		ug/L		126	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.980		ug/L		104	49 - 165
Bis(2-chloroethyl)ether	2.86	2.642		ug/L		92	43 - 126

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	2.86	4.994	*+	ug/L		175	29 - 137
Butyl benzyl phthalate	2.86	4.853	*+	ug/L		170	28 - 130
Chrysene	2.86	2.695		ug/L		94	47 - 130
Dibenz(a,h)anthracene	2.86	2.945		ug/L		103	32 - 200
Dibenzofuran	2.86	2.640		ug/L		92	48 - 130
Diethyl phthalate	2.86	3.390		ug/L		119	53 - 120
Dimethyl phthalate	2.86	3.826	*+	ug/L		134	67 - 120
Di-n-butyl phthalate	2.86	3.728	*+	ug/L		130	8 - 120
Di-n-octyl phthalate	2.86	4.953		ug/L		173	19 - 200
Fluoranthene	2.86	2.673		ug/L		94	43 - 130
Fluorene	2.86	2.434		ug/L		85	70 - 130
Hexachlorobenzene	2.86	2.192		ug/L		77	8 - 142
Hexachlorobutadiene	2.86	1.382		ug/L		48	10 - 130
Hexachlorocyclopentadiene	2.86	1.514		ug/L		53	10 - 130
Hexachloroethane	2.86	1.639		ug/L		57	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	3.239		ug/L		113	29 - 151
Isophorone	2.86	3.718		ug/L		130	47 - 180
Naphthalene	2.86	2.331		ug/L		82	36 - 120
Nitrobenzene	2.86	3.810	*+	ug/L		133	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.919		ug/L		102	14 - 198
N-Nitrosodiphenylamine	2.86	3.086		ug/L		108	40 - 127
Pentachlorophenol	2.86	3.975		ug/L		139	38 - 152
Phenanthrene	2.86	2.560		ug/L		90	65 - 120
Phenol	2.86	1.452	J	ug/L		51	17 - 120
Pyrene	2.86	2.808		ug/L		98	70 - 130
Pyridine	2.86	<1.44	U	ug/L		40	1 - 126
N-Nitro-o-toluidine	2.86	2.259		ug/L		79	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.893		ug/L		101	33 - 132
Acetophenone	2.86	2.569		ug/L		90	58 - 130
N-Nitrosopiperidine	2.86	3.630		ug/L		127	54 - 130
Pentachlorobenzene	2.86	1.883		ug/L		66	47 - 130
Diphenyl ether	2.86	2.504		ug/L		88	61 - 130
1,1'-Biphenyl	2.86	2.247		ug/L		79	52 - 130
4-Aminobiphenyl	2.86	1.814		ug/L		63	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.642		ug/L		57	52 - 130
1,3,5-Trinitrobenzene	2.86	5.122	*+	ug/L		179	42 - 130
1,3-Dinitrobenzene	2.86	4.587	*+	ug/L		161	54 - 130
1,4-Naphthoquinone	2.86	4.237	*+	ug/L		148	34 - 130
1-Naphthylamine	2.86	0.5008	J *-	ug/L		18	40 - 130
2,6-Dichlorophenol	2.86	3.087		ug/L		108	40 - 130
2-Acetylaminofluorene	2.86	7.517	*+	ug/L		263	50 - 150
2-Chlorophenol	2.86	2.818		ug/L		99	36 - 120
2-Naphthylamine	2.86	0.7266	*-	ug/L		25	30 - 130
2-Picoline	2.86	1.341		ug/L		47	22 - 130
2-Toluidine	2.86	1.404		ug/L		49	30 - 130
3,3'-Dichlorobenzidine	2.86	1.984		ug/L		69	20 - 150
3,3'-Dimethylbenzidine	2.86	0.3426	J *-	ug/L		12	30 - 130
3-Methylcholanthrene	2.86	2.480		ug/L		87	53 - 130
4-Nitroquinoline-1-oxide	2.86	4.728	*+	ug/L		165	39 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
7,12-Dimethylbenz(a)anthracene	2.86	3.320		ug/L		116	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	2.937	*+	ug/L		206	69 - 130
Aramite Peak 2	1.43	2.819	*+	ug/L		197	65 - 130
Diallate Peak 1	2.11	2.333		ug/L		110	69 - 130
Diallate Peak 2	0.743	0.8214		ug/L		111	67 - 130
Ethyl methanesulfonate	2.86	2.051		ug/L		72	54 - 130
Hexachloropropene	2.86	1.503		ug/L		53	37 - 130
Isosafrole Peak 1	0.457	0.3579	J	ug/L		78	54 - 130
Isosafrole Peak 2	2.40	2.071		ug/L		86	62 - 130
Methyl methanesulfonate	2.86	1.182		ug/L		41	30 - 130
N-Nitrosodiethylamine	2.86	2.431		ug/L		85	54 - 130
N-Nitrosodimethylamine	2.86	1.021		ug/L		36	28 - 126
N-Nitrosodi-n-butylamine	2.86	3.706		ug/L		130	58 - 130
N-Nitrosomethylethylamine	2.86	1.890		ug/L		66	45 - 130
N-Nitrosomorpholine	2.86	1.724		ug/L		60	37 - 130
N-Nitrosopyrrolidine	2.86	1.881		ug/L		66	47 - 130
p-Dimethylamino azobenzene	2.86	2.981		ug/L		104	61 - 130
Pentachloronitrobenzene	2.86	4.674	*+	ug/L		164	56 - 130
Phenacetin	2.86	4.170	*+	ug/L		146	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	4.258	*+	ug/L		149	70 - 130
Safrole, Total	2.86	3.083		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130
2-Fluorobiphenyl	124		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	199	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	110		47 - 130

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	2.86	2.816		ug/L		99	58 - 130

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	7.744		ug/L		136	45 - 138
Dinoseb	5.71	9.305	*+	ug/L		163	49 - 130
Disulfoton	5.71	2.388		ug/L		42	38 - 134
Ethyl Parathion	5.71	10.01	*+	ug/L		175	25 - 173

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Famphur	2.86	3.957		ug/L		138	43 - 142
Methapyrilene	5.71	8.801		ug/L		154	70 - 183
Methyl parathion	5.71	9.586	*+	ug/L		168	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.638		ug/L		92	43 - 130
Phorate	5.71	5.870		ug/L		103	37 - 140
Sulfotepp	5.71	6.014		ug/L		105	28 - 158
Thionazin	2.86	3.333		ug/L		117	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	138	S1+	35 - 130
2-Fluorobiphenyl	111		43 - 130
2-Fluorophenol (Surr)	80		19 - 120
Nitrobenzene-d5 (Surr)	184	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	105		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	1.587		ug/L		56	32 - 130	9	30
1,2-Dichlorobenzene	2.86	1.517		ug/L		53	32 - 130	9	30
1,3-Dichlorobenzene	2.86	1.417		ug/L		50	26 - 130	8	30
1,4-Dichlorobenzene	2.86	1.473		ug/L		52	28 - 130	8	30
2,2'-oxybis[1-chloropropane]	2.86	2.385	J	ug/L		83	10 - 173	8	30
2,4,5-Trichlorophenol	2.86	3.263		ug/L		114	35 - 130	13	30
2,4,6-Trichlorophenol	2.86	2.890		ug/L		101	52 - 129	15	30
2,4-Dichlorophenol	2.86	2.617		ug/L		92	53 - 122	12	30
2,4-Dimethylphenol	2.86	2.152		ug/L		75	42 - 120	15	30
1,4-Dioxane	2.86	1.043		ug/L		36	27 - 130	8	30
2,4-Dinitrophenol	2.86	1.967	J	ug/L		69	12 - 173	27	30
2,4-Dinitrotoluene	2.86	3.750	*+	ug/L		131	48 - 127	16	30
2,6-Dinitrotoluene	2.86	4.144	*+	ug/L		145	68 - 137	10	30
2-Chloronaphthalene	2.86	2.120		ug/L		74	10 - 130	9	30
2-Methylnaphthalene	2.86	2.024		ug/L		71	25 - 175	11	30
2-Methylphenol	2.86	2.297		ug/L		80	14 - 176	9	30
2-Nitroaniline	2.86	3.095		ug/L		108	59 - 130	10	30
2-Nitrophenol	2.86	3.820		ug/L		134	45 - 167	10	30
3 & 4 Methylphenol	2.86	1.940		ug/L		68	22 - 130	7	30
3-Nitroaniline	2.86	1.893		ug/L		66	30 - 130	6	30
4,6-Dinitro-2-methylphenol	2.86	2.663		ug/L		93	10 - 130	13	30
4-Bromophenyl phenyl ether	2.86	2.176		ug/L		76	65 - 120	19	30
4-Chloro-3-methylphenol	2.86	2.920		ug/L		102	41 - 128	11	30
4-Chloroaniline	2.86	1.606		ug/L		56	30 - 130	3	30
4-Chlorophenyl phenyl ether	2.86	2.060		ug/L		72	38 - 145	16	30
4-Nitroaniline	2.86	2.076		ug/L		73	42 - 125	7	30
Acenaphthene	2.86	2.126		ug/L		74	60 - 132	14	30

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acenaphthylene	2.86	2.418		ug/L		85	54 - 126	10	30	
Aniline	2.86	1.308		ug/L		46	15 - 130	1	30	
Anthracene	2.86	2.174		ug/L		76	43 - 135	12	30	
Benzo[a]anthracene	2.86	2.970		ug/L		104	42 - 133	6	30	
Benzo[a]pyrene	2.86	2.406		ug/L		84	32 - 148	12	30	
Benzo[b]fluoranthene	2.86	3.312		ug/L		116	42 - 140	8	30	
Benzo[g,h,i]perylene	2.86	2.495		ug/L		87	25 - 195	12	30	
Benzo[k]fluoranthene	2.86	2.987		ug/L		105	25 - 146	8	30	
Benzyl alcohol	2.86	3.542		ug/L		124	57 - 130	2	30	
Bis(2-chloroethoxy)methane	2.86	2.619		ug/L		92	49 - 165	13	30	
Bis(2-chloroethyl)ether	2.86	2.341		ug/L		82	43 - 126	12	30	
Bis(2-ethylhexyl) phthalate	2.86	4.487	*+	ug/L		157	29 - 137	11	30	
Butyl benzyl phthalate	2.86	4.374	*+	ug/L		153	28 - 130	10	30	
Chrysene	2.86	2.419		ug/L		85	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	2.569		ug/L		90	32 - 200	14	30	
Dibenzofuran	2.86	2.249		ug/L		79	48 - 130	16	30	
Diethyl phthalate	2.86	3.112		ug/L		109	53 - 120	9	30	
Dimethyl phthalate	2.86	3.338		ug/L		117	67 - 120	14	30	
Di-n-butyl phthalate	2.86	3.309		ug/L		116	8 - 120	12	30	
Di-n-octyl phthalate	2.86	4.445		ug/L		156	19 - 200	11	30	
Fluoranthene	2.86	2.407		ug/L		84	43 - 130	10	30	
Fluorene	2.86	2.117		ug/L		74	70 - 130	14	30	
Hexachlorobenzene	2.86	1.943		ug/L		68	8 - 142	12	30	
Hexachlorobutadiene	2.86	1.167		ug/L		41	10 - 130	17	30	
Hexachlorocyclopentadiene	2.86	1.269		ug/L		44	10 - 130	18	30	
Hexachloroethane	2.86	1.470		ug/L		51	10 - 130	11	30	
Indeno[1,2,3-cd]pyrene	2.86	2.878		ug/L		101	29 - 151	12	30	
Isophorone	2.86	3.378		ug/L		118	47 - 180	10	30	
Naphthalene	2.86	2.157		ug/L		75	36 - 120	8	30	
Nitrobenzene	2.86	3.551		ug/L		124	54 - 130	7	30	
N-Nitrosodi-n-propylamine	2.86	2.599		ug/L		91	14 - 198	12	30	
N-Nitrosodiphenylamine	2.86	2.735		ug/L		96	40 - 127	12	30	
Pentachlorophenol	2.86	3.227		ug/L		113	38 - 152	21	30	
Phenanthrene	2.86	2.195		ug/L		77	65 - 120	15	30	
Phenol	2.86	1.256	J	ug/L		44	17 - 120	15	30	
Pyrene	2.86	2.491		ug/L		87	70 - 130	12	30	
Pyridine	2.86	<1.44	U	ug/L		37	1 - 126	9	30	
N-Nitro-o-toluidine	2.86	2.104		ug/L		74	47 - 130	7	30	
2,3,4,6-Tetrachlorophenol	2.86	2.592		ug/L		91	33 - 132	11	30	
Acetophenone	2.86	2.330		ug/L		82	58 - 130	10	30	
N-Nitrosopiperidine	2.86	3.085		ug/L		108	54 - 130	16	30	
Pentachlorobenzene	2.86	1.541		ug/L		54	47 - 130	20	30	
Diphenyl ether	2.86	2.167		ug/L		76	61 - 130	14	30	
1,1'-Biphenyl	2.86	1.931		ug/L		68	52 - 130	15	30	
4-Aminobiphenyl	2.86	1.767		ug/L		62	35 - 130	3	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.476		ug/L		52	52 - 130	11	30	
1,3,5-Trinitrobenzene	2.86	4.273	*+	ug/L		150	42 - 130	18	30	
1,3-Dinitrobenzene	2.86	4.210	*+	ug/L		147	54 - 130	9	30	
1,4-Naphthoquinone	2.86	3.539		ug/L		124	34 - 130	18	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1-Naphthylamine	2.86	0.5143	J *	ug/L		18	40 - 130	3	30	
2,6-Dichlorophenol	2.86	2.627		ug/L		92	40 - 130	16	30	
2-Acetylaminofluorene	2.86	7.003	*+	ug/L		245	50 - 150	7	30	
2-Chlorophenol	2.86	2.533		ug/L		89	36 - 120	11	30	
2-Naphthylamine	2.86	0.6411	*-	ug/L		22	30 - 130	12	30	
2-Picoline	2.86	1.350		ug/L		47	22 - 130	1	30	
2-Toluidine	2.86	1.421		ug/L		50	30 - 130	1	30	
3,3'-Dichlorobenzidine	2.86	1.903		ug/L		67	20 - 150	4	30	
3,3'-Dimethylbenzidine	2.86	0.3987	J *	ug/L		14	30 - 130	15	30	
3-Methylcholanthrene	2.86	2.235		ug/L		78	53 - 130	10	30	
4-Nitroquinoline-1-oxide	2.86	4.617	*+	ug/L		162	39 - 130	2	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.123		ug/L		109	63 - 130	6	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	2.458	*+	ug/L		172	69 - 130	18	30	
Aramite Peak 2	1.43	2.475	*+	ug/L		173	65 - 130	13	30	
Diallate Peak 1	2.11	2.053		ug/L		97	69 - 130	13	30	
Diallate Peak 2	0.743	0.7174		ug/L		97	67 - 130	14	30	
Ethyl methanesulfonate	2.86	1.834		ug/L		64	54 - 130	11	30	
Hexachloropropene	2.86	1.241		ug/L		43	37 - 130	19	30	
Isosafrole Peak 1	0.457	0.3203	J	ug/L		70	54 - 130	11	30	
Isosafrole Peak 2	2.40	1.862		ug/L		78	62 - 130	11	30	
Methyl methanesulfonate	2.86	1.099		ug/L		38	30 - 130	7	30	
N-Nitrosodiethylamine	2.86	2.392		ug/L		84	54 - 130	2	30	
N-Nitrosodimethylamine	2.86	0.9307		ug/L		33	28 - 126	9	30	
N-Nitrosodi-n-butylamine	2.86	3.272		ug/L		115	58 - 130	12	30	
N-Nitrosomethylethylamine	2.86	1.755		ug/L		61	45 - 130	7	30	
N-Nitrosomorpholine	2.86	1.581		ug/L		55	37 - 130	9	30	
N-Nitrosopyrrolidine	2.86	1.861		ug/L		65	47 - 130	1	30	
p-Dimethylamino azobenzene	2.86	2.705		ug/L		95	61 - 130	10	30	
Pentachloronitrobenzene	2.86	3.872	*+	ug/L		136	56 - 130	19	30	
Phenacetin	2.86	3.511		ug/L		123	70 - 130	17	30	
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	3.755	*+	ug/L		131	70 - 130	13	30	
Safrole, Total	2.86	2.766		ug/L		97	70 - 130	11	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130
2-Fluorobiphenyl	107		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14	104		47 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	2.86	2.732		ug/L		96	58 - 130	3	30

**Lab Sample ID: LCSD 860-159586/5-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate	5.71	7.633		ug/L		134	45 - 138	1	30
Dinoseb	5.71	9.559	*+	ug/L		167	49 - 130	3	30
Disulfoton	5.71	3.580	*1	ug/L		63	38 - 134	40	30
Ethyl Parathion	5.71	11.60	*+	ug/L		203	25 - 173	15	30
Famphur	2.86	4.439	*+	ug/L		155	43 - 142	11	30
Methapyrilene	5.71	9.267		ug/L		162	70 - 183	5	30
Methyl parathion	5.71	10.47	*+	ug/L		183	26 - 159	9	30
o,o',o"-Triethylphosphorothioate	2.86	2.726		ug/L		95	43 - 130	3	30
Phorate	5.71	6.954		ug/L		122	37 - 140	17	30
Sulfotepp	5.71	7.134		ug/L		125	28 - 158	17	30
Thionazin	2.86	3.290		ug/L		115	50 - 150	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130
2-Fluorobiphenyl	117		43 - 130
2-Fluorophenol (Surr)	66		19 - 120
Nitrobenzene-d5 (Surr)	176	S1+	37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14	113		47 - 130

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 14:30	05/15/24 16:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/15/24 16:05	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/15/24 16:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzyl alcohol	0.7250	J	1.14	0.600	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 14:30	05/15/24 16:05	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 14:30	05/15/24 16:05	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 14:30	05/15/24 16:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:30	05/15/24 16:05	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:30	05/15/24 16:05	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pronamide	0.1811	J I	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/15/24 16:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/15/24 16:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/15/24 16:05	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorobiphenyl	117		43 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorophenol (Surr)	78		19 - 120	05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133	05/14/24 14:30	05/15/24 16:05	1
Phenol-d5 (Surr)	33		8 - 124	05/14/24 14:30	05/15/24 16:05	1
p-Terphenyl-d14	121		47 - 130	05/14/24 14:30	05/15/24 16:05	1

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
1,2,4-Trichlorobenzene	2.86	2.907		ug/L		102	32 - 130
1,2-Dichlorobenzene	2.86	2.651		ug/L		93	32 - 130
1,3-Dichlorobenzene	2.86	2.518		ug/L		88	26 - 130
1,4-Dichlorobenzene	2.86	2.589		ug/L		91	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	3.056	I	ug/L		107	10 - 173
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130
2,4,6-Trichlorophenol	2.86	4.075	*+	ug/L		143	52 - 129
2,4-Dichlorophenol	2.86	3.540	*+	ug/L		124	53 - 122
2,4-Dimethylphenol	2.86	3.023		ug/L		106	42 - 120
1,4-Dioxane	2.86	1.278		ug/L		45	27 - 130
2,4-Dinitrophenol	2.86	3.263		ug/L		114	12 - 173
2,4-Dinitrotoluene	2.86	4.832	*+	ug/L		169	48 - 127
2,6-Dinitrotoluene	2.86	5.554	*+	ug/L		194	68 - 137
2-Chloronaphthalene	2.86	4.009	*+	ug/L		140	10 - 130
2-Methylnaphthalene	2.86	3.510		ug/L		123	25 - 175
2-Methylphenol	2.86	2.730		ug/L		96	14 - 176
2-Nitroaniline	2.86	5.650	*+	ug/L		198	59 - 130
2-Nitrophenol	2.86	5.344	*+	ug/L		187	45 - 167
3 & 4 Methylphenol	2.86	2.183		ug/L		76	22 - 130
3-Nitroaniline	2.86	2.061		ug/L		72	30 - 130
4,6-Dinitro-2-methylphenol	2.86	4.063	*+	ug/L		142	10 - 130
4-Bromophenyl phenyl ether	2.86	3.459	*+	ug/L		121	65 - 120
4-Chloro-3-methylphenol	2.86	4.144	*+	ug/L		145	41 - 128
4-Chloroaniline	2.86	1.659		ug/L		58	30 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	2.86	3.497		ug/L		122	38 - 145
4-Nitroaniline	2.86	2.409		ug/L		84	42 - 125
Acenaphthene	2.86	2.996		ug/L		105	60 - 132
Acenaphthylene	2.86	2.391		ug/L		84	54 - 126
Aniline	2.86	1.236		ug/L		43	15 - 130
Anthracene	2.86	3.199		ug/L		112	43 - 135
Benzo[a]anthracene	2.86	4.117	*+	ug/L		144	42 - 133
Benzo[a]pyrene	2.86	3.331		ug/L		117	32 - 148
Benzo[b]fluoranthene	2.86	4.705	*+	ug/L		165	42 - 140
Benzo[g,h,i]perylene	2.86	3.439		ug/L		120	25 - 195
Benzo[k]fluoranthene	2.86	3.842		ug/L		134	25 - 146
Benzyl alcohol	2.86	3.224		ug/L		113	57 - 130
Bis(2-chloroethoxy)methane	2.86	3.665		ug/L		128	49 - 165
Bis(2-chloroethyl)ether	2.86	2.971		ug/L		104	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	5.369	*+	ug/L		188	29 - 137
Butyl benzyl phthalate	2.86	5.915	*+	ug/L		207	28 - 130
Chrysene	2.86	3.521		ug/L		123	47 - 130
Dibenz(a,h)anthracene	2.86	3.729		ug/L		131	32 - 200
Dibenzofuran	2.86	3.449		ug/L		121	48 - 130
Diethyl phthalate	2.86	4.515	*+	ug/L		158	53 - 120
Dimethyl phthalate	2.86	4.364	*+	ug/L		153	67 - 120
Di-n-butyl phthalate	2.86	4.644	*+	ug/L		163	8 - 120
Di-n-octyl phthalate	2.86	5.725		ug/L		200	19 - 200
Fluoranthene	2.86	3.581		ug/L		125	43 - 130
Fluorene	2.86	3.236		ug/L		113	70 - 130
Hexachlorobenzene	2.86	3.251		ug/L		114	8 - 142
Hexachlorobutadiene	2.86	2.351		ug/L		82	10 - 130
Hexachlorocyclopentadiene	2.86	2.803		ug/L		98	10 - 130
Hexachloroethane	2.86	2.486		ug/L		87	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	4.042		ug/L		141	29 - 151
Isophorone	2.86	4.361		ug/L		153	47 - 180
Naphthalene	2.86	3.660	*+	ug/L		128	36 - 120
Nitrobenzene	2.86	4.338	*+	ug/L		152	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.092		ug/L		108	14 - 198
N-Nitrosodiphenylamine	2.86	2.284		ug/L		80	40 - 127
Pentachlorophenol	2.86	4.233		ug/L		148	38 - 152
Phenanthrene	2.86	3.525	*+	ug/L		123	65 - 120
Phenol	2.86	1.602	J	ug/L		56	17 - 120
Pyrene	2.86	3.723		ug/L		130	70 - 130
Pyridine	2.86	<1.44	U	ug/L		33	1 - 126
N-Nitro-o-toluidine	2.86	2.012		ug/L		70	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.749		ug/L		131	33 - 132
Acetophenone	2.86	2.801		ug/L		98	58 - 130
N-Nitrosopiperidine	2.86	4.055	*+	ug/L		142	54 - 130
Pentachlorobenzene	2.86	3.199		ug/L		112	47 - 130
Diphenyl ether	2.86	3.604		ug/L		126	61 - 130
1,1'-Biphenyl	2.86	3.188		ug/L		112	52 - 130
4-Aminobiphenyl	2.86	1.696		ug/L		59	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	3.000		ug/L		105	52 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trinitrobenzene	2.86	5.467	*+	ug/L		191	42 - 130
1,3-Dinitrobenzene	2.86	5.685	*+	ug/L		199	54 - 130
1,4-Naphthoquinone	2.86	4.554	*+	ug/L		159	34 - 130
1-Naphthylamine	2.86	0.6700	I *-	ug/L		23	40 - 130
2,6-Dichlorophenol	2.86	3.725		ug/L		130	40 - 130
2-Acetylaminofluorene	2.86	9.129	*+	ug/L		320	50 - 150
2-Chlorophenol	2.86	3.236		ug/L		113	36 - 120
2-Naphthylamine	2.86	0.7905	*-	ug/L		28	30 - 130
2-Picoline	2.86	1.485		ug/L		52	22 - 130
2-Toluidine	2.86	1.076		ug/L		38	30 - 130
3,3'-Dichlorobenzidine	2.86	1.832		ug/L		64	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4976	J *-	ug/L		17	30 - 130
3-Methylcholanthrene	2.86	3.296		ug/L		115	53 - 130
4-Nitroquinoline-1-oxide	2.86	6.357	*+	ug/L		222	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	4.260	*+	ug/L		149	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.170	*+	ug/L		222	69 - 130
Aramite Peak 2	1.43	3.540	*+	ug/L		248	65 - 130
Diallate Peak 1	2.11	2.370		ug/L		112	69 - 130
Diallate Peak 2	0.743	0.8822		ug/L		119	67 - 130
Ethyl methanesulfonate	2.86	2.547		ug/L		89	54 - 130
Hexachloropropene	2.86	3.063		ug/L		107	37 - 130
Isosafrole Peak 1	0.457	0.3620	J	ug/L		79	54 - 130
Isosafrole Peak 2	2.40	1.859		ug/L		77	62 - 130
Methyl methanesulfonate	2.86	1.354		ug/L		47	30 - 130
N-Nitrosodiethylamine	2.86	3.079		ug/L		108	54 - 130
N-Nitrosodimethylamine	2.86	1.240		ug/L		43	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.427	*+	ug/L		155	58 - 130
N-Nitrosomethylethylamine	2.86	2.289		ug/L		80	45 - 130
N-Nitrosomorpholine	2.86	2.009		ug/L		70	37 - 130
N-Nitrosopyrrolidine	2.86	2.321		ug/L		81	47 - 130
p-Dimethylamino azobenzene	2.86	4.390	*+	ug/L		154	61 - 130
Pentachloronitrobenzene	2.86	4.827	*+	ug/L		169	56 - 130
Phenacetin	2.86	4.508	*+	ug/L		158	70 - 130
p-Phenylene diamine	2.86	<0.500	U	ug/L		11	3 - 120
Pronamide	2.86	4.772	*+	ug/L		167	70 - 130
Safrole, Total	2.86	2.669		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	93		19 - 120
Nitrobenzene-d5 (Surr)	206	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	124		47 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Dimethoate	5.71	8.349	*+	ug/L		146	45 - 138
Dinoseb	5.71	10.58	*+	ug/L		185	49 - 130
Disulfoton	5.71	6.417		ug/L		112	38 - 134
Ethyl Parathion	5.71	12.45	*+	ug/L		218	25 - 173
Famphur	2.86	4.910	*+	ug/L		172	43 - 142
Methapyrilene	5.71	9.732		ug/L		170	70 - 183
Methyl parathion	5.71	11.52	*+	ug/L		202	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	3.465		ug/L		121	43 - 130
Phorate	5.71	8.223	*+	ug/L		144	37 - 140
Sulfotepp	5.71	7.783		ug/L		136	28 - 158
Thionazin	2.86	3.524		ug/L		123	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	149	S1+	35 - 130
2-Fluorobiphenyl	126		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	185	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2,4-Trichlorobenzene	2.86	2.875		ug/L		101	32 - 130	1	30
1,2-Dichlorobenzene	2.86	2.824		ug/L		99	32 - 130	6	30
1,3-Dichlorobenzene	2.86	2.628		ug/L		92	26 - 130	4	30
1,4-Dichlorobenzene	2.86	2.725		ug/L		95	28 - 130	5	30
2,2'-oxybis[1-chloropropane]	2.86	3.206	I	ug/L		112	10 - 173	5	30
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130	0	30
2,4,6-Trichlorophenol	2.86	4.136	*+	ug/L		145	52 - 129	1	30
2,4-Dichlorophenol	2.86	3.788	*+	ug/L		133	53 - 122	7	30
2,4-Dimethylphenol	2.86	2.886		ug/L		101	42 - 120	5	30
1,4-Dioxane	2.86	1.347		ug/L		47	27 - 130	5	30
2,4-Dinitrophenol	2.86	3.573		ug/L		125	12 - 173	9	30
2,4-Dinitrotoluene	2.86	5.083	*+	ug/L		178	48 - 127	5	30
2,6-Dinitrotoluene	2.86	5.609	*+	ug/L		196	68 - 137	1	30
2-Chloronaphthalene	2.86	4.075	*+	ug/L		143	10 - 130	2	30
2-Methylnaphthalene	2.86	3.440		ug/L		120	25 - 175	2	30
2-Methylphenol	2.86	2.668		ug/L		93	14 - 176	2	30
2-Nitroaniline	2.86	5.733	*+	ug/L		201	59 - 130	1	30
2-Nitrophenol	2.86	5.516	*+	ug/L		193	45 - 167	3	30
3 & 4 Methylphenol	2.86	2.098		ug/L		73	22 - 130	4	30
3-Nitroaniline	2.86	2.189		ug/L		77	30 - 130	6	30
4,6-Dinitro-2-methylphenol	2.86	4.009	*+	ug/L		140	10 - 130	1	30
4-Bromophenyl phenyl ether	2.86	3.778	*+	ug/L		132	65 - 120	9	30
4-Chloro-3-methylphenol	2.86	4.206	*+	ug/L		147	41 - 128	1	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Chloroaniline	2.86	1.780		ug/L		62	30 - 130	7	30
4-Chlorophenyl phenyl ether	2.86	3.726		ug/L		130	38 - 145	6	30
4-Nitroaniline	2.86	2.495		ug/L		87	42 - 125	4	30
Acenaphthene	2.86	2.810		ug/L		98	60 - 132	6	30
Acenaphthylene	2.86	2.424		ug/L		85	54 - 126	1	30
Aniline	2.86	1.087		ug/L		38	15 - 130	13	30
Anthracene	2.86	3.099		ug/L		108	43 - 135	3	30
Benzo[a]anthracene	2.86	3.759		ug/L		132	42 - 133	9	30
Benzo[a]pyrene	2.86	3.327		ug/L		116	32 - 148	0	30
Benzo[b]fluoranthene	2.86	4.072	*+	ug/L		143	42 - 140	14	30
Benzo[g,h,i]perylene	2.86	3.452		ug/L		121	25 - 195	0	30
Benzo[k]fluoranthene	2.86	3.480		ug/L		122	25 - 146	10	30
Benzyl alcohol	2.86	3.460		ug/L		121	57 - 130	7	30
Bis(2-chloroethoxy)methane	2.86	3.758		ug/L		132	49 - 165	3	30
Bis(2-chloroethyl)ether	2.86	3.127		ug/L		109	43 - 126	5	30
Bis(2-ethylhexyl) phthalate	2.86	4.865	*+	ug/L		170	29 - 137	10	30
Butyl benzyl phthalate	2.86	5.844	*+	ug/L		205	28 - 130	1	30
Chrysene	2.86	3.158		ug/L		111	47 - 130	11	30
Dibenz(a,h)anthracene	2.86	3.669		ug/L		128	32 - 200	2	30
Dibenzofuran	2.86	3.652		ug/L		128	48 - 130	6	30
Diethyl phthalate	2.86	4.432	*+	ug/L		155	53 - 120	2	30
Dimethyl phthalate	2.86	4.497	*+	ug/L		157	67 - 120	3	30
Di-n-butyl phthalate	2.86	4.593	*+	ug/L		161	8 - 120	1	30
Di-n-octyl phthalate	2.86	5.130		ug/L		180	19 - 200	11	30
Fluoranthene	2.86	3.667		ug/L		128	43 - 130	2	30
Fluorene	2.86	3.357		ug/L		117	70 - 130	4	30
Hexachlorobenzene	2.86	3.126		ug/L		109	8 - 142	4	30
Hexachlorobutadiene	2.86	2.528		ug/L		88	10 - 130	7	30
Hexachlorocyclopentadiene	2.86	2.912		ug/L		102	10 - 130	4	30
Hexachloroethane	2.86	2.609		ug/L		91	10 - 130	5	30
Indeno[1,2,3-cd]pyrene	2.86	3.973		ug/L		139	29 - 151	2	30
Isophorone	2.86	4.559		ug/L		160	47 - 180	4	30
Naphthalene	2.86	3.606	*+	ug/L		126	36 - 120	1	30
Nitrobenzene	2.86	4.626	*+	ug/L		162	54 - 130	6	30
N-Nitrosodi-n-propylamine	2.86	3.161		ug/L		111	14 - 198	2	30
N-Nitrosodiphenylamine	2.86	2.359		ug/L		83	40 - 127	3	30
Pentachlorophenol	2.86	4.290		ug/L		150	38 - 152	1	30
Phenanthrene	2.86	3.535	*+	ug/L		124	65 - 120	0	30
Phenol	2.86	1.636	J	ug/L		57	17 - 120	2	30
Pyrene	2.86	3.722		ug/L		130	70 - 130	0	30
Pyridine	2.86	<1.44	U	ug/L		36	1 - 126	8	30
N-Nitro-o-toluidine	2.86	2.132		ug/L		75	47 - 130	6	30
2,3,4,6-Tetrachlorophenol	2.86	3.760		ug/L		132	33 - 132	0	30
Acetophenone	2.86	2.947		ug/L		103	58 - 130	5	30
N-Nitrosopiperidine	2.86	4.213	*+	ug/L		147	54 - 130	4	30
Pentachlorobenzene	2.86	3.296		ug/L		115	47 - 130	3	30
Diphenyl ether	2.86	3.671		ug/L		128	61 - 130	2	30
1,1'-Biphenyl	2.86	3.306		ug/L		116	52 - 130	4	30
4-Aminobiphenyl	2.86	1.814		ug/L		64	35 - 130	7	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,2,4,5-Tetrachlorobenzene	2.86	3.048		ug/L		107	52 - 130	2	30	
1,3,5-Trinitrobenzene	2.86	5.777	*+	ug/L		202	42 - 130	6	30	
1,3-Dinitrobenzene	2.86	5.712	*+	ug/L		200	54 - 130	0	30	
1,4-Naphthoquinone	2.86	4.642	*+	ug/L		162	34 - 130	2	30	
1-Naphthylamine	2.86	0.3682	J I *- *1	ug/L		13	40 - 130	58	30	
2,6-Dichlorophenol	2.86	3.691		ug/L		129	40 - 130	1	30	
2-Acetylaminofluorene	2.86	8.930	*+	ug/L		313	50 - 150	2	30	
2-Chlorophenol	2.86	3.424		ug/L		120	36 - 120	6	30	
2-Naphthylamine	2.86	0.4953	J *- *1	ug/L		17	30 - 130	46	30	
2-Picoline	2.86	1.348		ug/L		47	22 - 130	10	30	
2-Toluidine	2.86	1.048		ug/L		37	30 - 130	3	30	
3,3'-Dichlorobenzidine	2.86	1.946		ug/L		68	20 - 150	6	30	
3,3'-Dimethylbenzidine	2.86	0.3553	J *- *1	ug/L		12	30 - 130	33	30	
3-Methylcholanthrene	2.86	3.233		ug/L		113	53 - 130	2	30	
4-Nitroquinoline-1-oxide	2.86	6.027	*+	ug/L		211	39 - 130	5	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.801	*+	ug/L		133	63 - 130	11	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	3.509	*+	ug/L		246	69 - 130	10	30	
Aramite Peak 2	1.43	3.432	*+	ug/L		240	65 - 130	3	30	
Diallate Peak 1	2.11	2.476		ug/L		117	69 - 130	4	30	
Diallate Peak 2	0.743	0.8093		ug/L		109	67 - 130	9	30	
Ethyl methanesulfonate	2.86	2.625		ug/L		92	54 - 130	3	30	
Hexachloropropene	2.86	3.036		ug/L		106	37 - 130	1	30	
Isosafrole Peak 1	0.457	0.3482	J	ug/L		76	54 - 130	4	30	
Isosafrole Peak 2	2.40	1.878		ug/L		78	62 - 130	1	30	
Methyl methanesulfonate	2.86	1.424		ug/L		50	30 - 130	5	30	
N-Nitrosodiethylamine	2.86	3.272		ug/L		115	54 - 130	6	30	
N-Nitrosodimethylamine	2.86	1.262		ug/L		44	28 - 126	2	30	
N-Nitrosodi-n-butylamine	2.86	4.563	*+	ug/L		160	58 - 130	3	30	
N-Nitrosomethylethylamine	2.86	2.398		ug/L		84	45 - 130	5	30	
N-Nitrosomorpholine	2.86	2.035		ug/L		71	37 - 130	1	30	
N-Nitrosopyrrolidine	2.86	2.316		ug/L		81	47 - 130	0	30	
p-Dimethylamino azobenzene	2.86	4.128	*+	ug/L		144	61 - 130	6	30	
Pentachloronitrobenzene	2.86	5.144	*+	ug/L		180	56 - 130	6	30	
Phenacetin	2.86	4.635	*+	ug/L		162	70 - 130	3	30	
p-Phenylene diamine	2.86	<0.500	U *- *1	ug/L		0	3 - 120	200	30	
Pronamide	2.86	4.807	*+	ug/L		168	70 - 130	1	30	
Safrole, Total	2.86	2.539		ug/L		89	70 - 130	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	162	S1+	35 - 130
2-Fluorobiphenyl	136	S1+	43 - 130
2-Fluorophenol (Surr)	98		19 - 120
Nitrobenzene-d5 (Surr)	211	S1+	37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14	121		47 - 130



# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.862		ug/L		138	45 - 138	6	30	
Dinoseb	5.71	10.04	*+	ug/L		176	49 - 130	5	30	
Disulfoton	5.71	5.406		ug/L		95	38 - 134	17	30	
Ethyl Parathion	5.71	11.34	*+	ug/L		198	25 - 173	9	30	
Famphur	2.86	4.422	*+	ug/L		155	43 - 142	10	30	
Methapyrilene	5.71	9.127		ug/L		160	70 - 183	6	30	
Methyl parathion	5.71	10.21	*+	ug/L		179	26 - 159	12	30	
o,o',o"-Triethylphosphorothioate	2.86	3.178		ug/L		111	43 - 130	9	30	
Phorate	5.71	7.544		ug/L		132	37 - 140	9	30	
Sulfotepp	5.71	7.160		ug/L		125	28 - 158	8	30	
Thionazin	2.86	3.352		ug/L		117	50 - 150	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130
2-Fluorobiphenyl	147	S1+	43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	204	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	127		47 - 130

# QC Association Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## GC/MS VOA

### Analysis Batch: 159779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	8260D	
860-73920-2	MW-71	Total/NA	Water	8260D	
860-73920-3	MW-72	Total/NA	Water	8260D	
860-73920-4	MW-65	Total/NA	Water	8260D	
860-73920-5	MW-67	Total/NA	Water	8260D	
860-73920-6	TB-03 (050724)	Total/NA	Water	8260D	
MB 860-159779/9	Method Blank	Total/NA	Water	8260D	
LCS 860-159779/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-159779/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-73918-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

### Analysis Batch: 160047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1 - RA	MW-70	Total/NA	Water	8260D	
860-73920-2 - RA	MW-71	Total/NA	Water	8260D	
860-73920-3 - RA	MW-72	Total/NA	Water	8260D	
860-73920-4 - RA	MW-65	Total/NA	Water	8260D	
860-73920-5 - RA	MW-67	Total/NA	Water	8260D	
860-73920-6 - RA	TB-03 (050724)	Total/NA	Water	8260D	
MB 860-160047/10	Method Blank	Total/NA	Water	8260D	
LCS 860-160047/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160047/4	Lab Control Sample Dup	Total/NA	Water	8260D	
880-43280-A-17 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
880-43280-C-17 MS	Matrix Spike	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 159586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	3511	
860-73920-2	MW-71	Total/NA	Water	3511	
860-73920-3	MW-72	Total/NA	Water	3511	
860-73920-4	MW-65	Total/NA	Water	3511	
860-73920-5	MW-67	Total/NA	Water	3511	
MB 860-159586/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 159684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	8270E	159586
860-73920-2	MW-71	Total/NA	Water	8270E	159586
860-73920-3	MW-72	Total/NA	Water	8270E	159586
860-73920-4	MW-65	Total/NA	Water	8270E	159586
860-73920-5	MW-67	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 159684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Analysis Batch: 159967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	8270E	159586
860-73920-2	MW-71	Total/NA	Water	8270E	159586
860-73920-3	MW-72	Total/NA	Water	8270E	159586
860-73920-4	MW-65	Total/NA	Water	8270E	159586
860-73920-5	MW-67	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Prep Batch: 160172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	3511	
860-73920-2	MW-71	Total/NA	Water	3511	
860-73920-3	MW-72	Total/NA	Water	3511	
860-73920-4	MW-65	Total/NA	Water	3511	
860-73920-5	MW-67	Total/NA	Water	3511	
MB 860-160172/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 160232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	8270E	159586
860-73920-2	MW-71	Total/NA	Water	8270E	159586
860-73920-3	MW-72	Total/NA	Water	8270E	159586
860-73920-4	MW-65	Total/NA	Water	8270E	159586
860-73920-5	MW-67	Total/NA	Water	8270E	159586

### Analysis Batch: 160340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-160172/1-A	Method Blank	Total/NA	Water	8270E	160172
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172

### Analysis Batch: 160986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73920-1	MW-70	Total/NA	Water	8270E	160172
860-73920-2	MW-71	Total/NA	Water	8270E	160172
860-73920-3	MW-72	Total/NA	Water	8270E	160172
860-73920-4	MW-65	Total/NA	Water	8270E	160172
860-73920-5	MW-67	Total/NA	Water	8270E	160172

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# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-70**

**Lab Sample ID: 860-73920-1**

**Date Collected: 05/07/24 13:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 13:50	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 17:13	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 04:11	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 00:47	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 02:51	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 01:11	PXS	EET HOU

**Client Sample ID: MW-71**

**Lab Sample ID: 860-73920-2**

**Date Collected: 05/07/24 14:07**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 12:28	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 17:34	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 04:39	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 01:16	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 03:20	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 01:39	PXS	EET HOU

**Client Sample ID: MW-72**

**Lab Sample ID: 860-73920-3**

**Date Collected: 05/07/24 14:23**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 12:48	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 17:54	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 05:07	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 01:46	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 03:50	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 02:08	PXS	EET HOU

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

**Client Sample ID: MW-65**

**Date Collected: 05/07/24 14:57**

**Date Received: 05/09/24 10:49**

**Lab Sample ID: 860-73920-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 14:31	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 18:15	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 05:35	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 02:17	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 04:21	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 02:36	PXS	EET HOU

**Client Sample ID: MW-67**

**Date Collected: 05/07/24 15:09**

**Date Received: 05/09/24 10:49**

**Lab Sample ID: 860-73920-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 13:09	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 18:35	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 06:03	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 02:47	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 04:51	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 03:05	PXS	EET HOU

**Client Sample ID: TB-03 (050724)**

**Date Collected: 05/07/24 00:00**

**Date Received: 05/09/24 10:49**

**Lab Sample ID: 860-73920-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	159779	05/13/24 10:25	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160047	05/14/24 18:56	A1S	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	05-21-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73920-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-73920-1	MW-70	Water	05/07/24 13:40	05/09/24 10:49
860-73920-2	MW-71	Water	05/07/24 14:07	05/09/24 10:49
860-73920-3	MW-72	Water	05/07/24 14:23	05/09/24 10:49
860-73920-4	MW-65	Water	05/07/24 14:57	05/09/24 10:49
860-73920-5	MW-67	Water	05/07/24 15:09	05/09/24 10:49
860-73920-6	TB-03 (050724)	Water	05/07/24 00:00	05/09/24 10:49

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**Client Information**

Client Contact: Mr Antonio Cardoso  
 Company: Arcadis U.S. Inc.  
 Address: 4300 West Cypress Street Suite 450  
 City: Tampa  
 State, Zip: FL, 33607  
 Phone: 1095575  
 Email: antonio.cardoso@arcadis.com  
 Project Name: Hercules Hattiesburg, MS  
 Site: SSOV#:

Sampler: *K Montemayor / B Pessit*  
 Phone: *225-205-8246*  
 Job PM: Sachin Kutchadkar  
 Sachin Kutchadkar@eurofins.com

CCO No: 980-29133-10045.5  
 Page: Page 5 of 8  
 Job #:

Due Date Requested:  
 TAT Requested (days):  
 Compliance Project:  Yes  No  
 PO #: 1095575  
 WQ #:  
 Project #: 86006085  
 PMSID:

Analysis Requested

Field Filtered Sample (Yes or No)

6270E\_QQ (MOD) Appendix 9 SVOCs  
 8260D (MOD) Appendix 9 VOCs

Preservation Codes:  
 N None

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Sediment, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Total Number of containers	Special Instructions/Note
<del>MMW-57</del>	<del>5/7/24</del>	<del>1340</del>	<del>G</del>	<del>Water</del>	<del>W</del>	<del>X</del>	<del>7</del>	<del></del>
MMW-65	5/7/24	1407	G	Water	W	X	7	
MMW-67	5/7/24	1428	G	Water	W	X	7	
MMW-70	5/7/24	1457	G	Water	W	X	7	
MMW-71	5/7/24	1509	G	Water	W	X	7	
MMW-72	5/7/24	1509	G	Water	W	X	7	
MMW-1	5/7/24	1509	G	Water	W	X	7	
MMW-2				Water				
MMW-3				Water				
MMW-4				Water				
MMW-5				Water				



**Possible Hazard Identification**

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For Months

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *[Signature]* Date/Time: *5-8-24 / 1545* Company: *Arcadis*

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Custody Seal No. *2124 HOU 318*

Cooler Temperature(s) °C and Other Remarks:

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-73920-1

**Login Number: 73920**

**List Source: Eurofins Houston**

**List Number: 1**

**Creator: Jimenez, Nicanor**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/30/2024 1:20:17 PM

**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-73924-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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5/30/2024 1:20:17 PM

Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Job ID: 860-73924-1**

**Eurofins Houston**

## Job Narrative 860-73924-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/9/2024 10:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

### GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: HMW-03 (860-73924-5), HMW-5 (860-73924-7) and HMW-4 (860-73924-8). These results have been reported and qualified.

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-159586 and analytical batch 860-159684 was outside the upper control limits.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: Dinoseb, Disulfoton, Fampfur and Methapyrilene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analyte: Disulfoton.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: HMW-1 (860-73924-1), HMW-2 (860-73924-2), DUPE-04 (860-73924-3) and RB-03 (860-73924-4). These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-159586 and analytical batch 860-159684 recovered outside control limits for the following analytes: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Acetylaminofluorene, 4-Nitroquinoline-1-oxide, Aramite Peak 1, Aramite Peak 2, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Nitrobenzene, Pentachloronitrobenzene, Phenacetin and Pronamide. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-160152 and 860-160172 and analytical batch 860-160340 was outside the upper

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## Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Job ID: 860-73924-1 (Continued)**

**Eurofins Houston**

control limits.

Method 8270E\_QQQ: The method blank for preparation batch 860-160172 and analytical batch 860-160340 contained Benzyl alcohol and Pronamide above the method detection limit. These target analytes concentration were less than the reporting limit in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-160152 and 860-160172 and analytical batch 860-160340 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-160152 and 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine, and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

Method 8270E\_QQQ: Benzyl alcohol was detected above the reporting limit (RL) in the method blank associated with preparation batch 860-159586 and analytical batch 860-159684 as well as in the following sample: (MB 860-159586/1-A). All affected samples were re-extracted and re-analyzed.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: HMW-1 (860-73924-1), HMW-2 (860-73924-2), DUPE-04 (860-73924-3), RB-03 (860-73924-4), HMW-03 (860-73924-5), HMW-5 (860-73924-7) and HMW-4 (860-73924-8). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Houston



# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Client Sample ID: HMW-1

## Lab Sample ID: 860-73924-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.111	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0117	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.08	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: HMW-2

## Lab Sample ID: 860-73924-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.109	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0176	J   B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.20	B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: DUPE-04

## Lab Sample ID: 860-73924-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.151	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0183	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.19	B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: RB-03

## Lab Sample ID: 860-73924-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.109	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0179	J   **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.38	B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: HMW-03

## Lab Sample ID: 860-73924-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.197	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0114	J   **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.17	B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: FB-03

## Lab Sample ID: 860-73924-6

No Detections.

## Client Sample ID: HMW-5

## Lab Sample ID: 860-73924-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.220	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0165	J   **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.15	B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: HMW-4

## Lab Sample ID: 860-73924-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2'-oxybis[1-chloropropane]	1.60	J	2.86	1.43	ug/L	1		8270E	Total/NA
1,4-Dioxane	0.307	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.943	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-04 (050824)

## Lab Sample ID: 860-73924-9

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

**Date Collected: 05/08/24 08:31**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 14:18	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 14:18	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 14:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 14:18	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 14:18	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 14:18	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 14:18	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 14:18	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 14:18	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 14:18	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 14:18	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 14:18	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 14:18	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 14:18	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 14:18	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 14:18	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 14:18	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 14:18	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 14:18	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 14:18	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 14:18	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 14:18	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 14:18	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 14:18	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 14:18	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 14:18	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 14:18	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 14:18	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 14:18	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 14:18	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 14:18	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 14:18	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 14:18	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 14:18	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 14:18	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 14:18	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 14:18	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 14:18	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 14:18	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 14:18	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 14:18	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 14:18	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 14:18	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 14:18	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 14:18	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 14:18	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 14:18	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 14:18	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 14:18	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

**Date Collected: 05/08/24 08:31**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 14:18	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 14:18	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 14:18	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 14:18	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 14:18	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 14:18	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 14:18	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 14:18	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 14:18	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 14:18	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 14:18	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 14:18	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 14:18	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 14:18	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 14:18	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 14:18	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 14:18	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 14:18	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 14:18	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 14:18	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 14:18	1
Dibromofluoromethane (Surr)	99		75 - 131		05/14/24 14:18	1
Toluene-d8 (Surr)	99		80 - 120		05/14/24 14:18	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 05:21	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 03:34	1
<b>1,4-Dioxane</b>	<b>0.111</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 03:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

**Date Collected: 05/08/24 08:31**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 03:34	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 03:17	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 03:34	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 03:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 03:34	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 03:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 03:34	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 03:17	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 03:34	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 03:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 03:34	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 03:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 03:34	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 03:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 03:34	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 03:17	1
<b>Benzo[a]anthracene</b>	<b>0.0117</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 03:34	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 03:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 03:34	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 03:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 03:34	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 03:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 03:34	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 03:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 03:34	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

Date Collected: 05/08/24 08:31

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzyl alcohol</b>	<b>1.08</b>	<b>J B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 03:17	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 03:34	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 03:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 03:34	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 03:17	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 03:34	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 03:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 03:34	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 03:17	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 03:34	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 03:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 03:34	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 03:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 03:34	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 03:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 03:34	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 03:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 03:34	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 03:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 03:34	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 03:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 03:34	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 03:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 03:34	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 03:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 03:34	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 03:17	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 03:34	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 03:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 03:34	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 03:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 03:34	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 03:17	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 03:34	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 03:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 03:34	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:34	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 03:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 03:34	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 03:17	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 03:34	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 03:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 03:34	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 03:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

**Date Collected: 05/08/24 08:31**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 03:34	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 03:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 03:34	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 03:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 03:34	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 03:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 03:34	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 03:17	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 03:34	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 06:32	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 03:34	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 03:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 03:34	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 03:17	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 03:34	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 03:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 03:34	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 03:17	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 03:34	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 03:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 03:34	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 03:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 03:34	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 03:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 03:34	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

**Date Collected: 05/08/24 08:31**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 03:17	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 03:34	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 03:17	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 03:34	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 03:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 03:34	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 03:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 03:34	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 03:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 03:34	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 03:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 03:34	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 03:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 03:34	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 03:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 03:34	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 03:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 03:34	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 03:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 03:34	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 03:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 03:34	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 03:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 03:34	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 03:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 03:34	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 03:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 03:34	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 03:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 03:34	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 03:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 03:34	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 03:17	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 03:34	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 03:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 03:34	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 03:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 03:34	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 03:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 03:34	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 03:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 03:34	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 03:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 03:34	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 03:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 03:34	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 03:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 03:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-1**

**Lab Sample ID: 860-73924-1**

**Date Collected: 05/08/24 08:31**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 03:34	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 03:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 03:34	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 03:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 03:34	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 03:17	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 03:34	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:17	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:34	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:17	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:34	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 03:17	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 03:34	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 03:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 03:34	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:17	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 03:34	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 03:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 03:34	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 03:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 03:34	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 03:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	143	S1+	35 - 130	05/10/24 10:20	05/11/24 03:17	1
2,4,6-Tribromophenol (Surr)	110		35 - 130	05/14/24 14:30	05/18/24 03:34	1
2-Fluorobiphenyl	114		43 - 130	05/10/24 10:20	05/11/24 03:17	1
2-Fluorobiphenyl	122		43 - 130	05/14/24 14:30	05/18/24 03:34	1
2-Fluorophenol (Surr)	79		19 - 120	05/10/24 10:20	05/11/24 03:17	1
2-Fluorophenol (Surr)	109		19 - 120	05/14/24 14:30	05/18/24 03:34	1
Nitrobenzene-d5 (Surr)	170	S1+	37 - 133	05/10/24 10:20	05/11/24 03:17	1
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133	05/14/24 14:30	05/18/24 03:34	1
Phenol-d5 (Surr)	49		8 - 124	05/10/24 10:20	05/11/24 03:17	1
Phenol-d5 (Surr)	76		8 - 124	05/14/24 14:30	05/18/24 03:34	1
p-Terphenyl-d14	108		47 - 130	05/10/24 10:20	05/11/24 03:17	1
p-Terphenyl-d14	115		47 - 130	05/14/24 14:30	05/18/24 03:34	1



# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

**Date Collected: 05/08/24 10:08**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 14:38	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 14:38	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 14:38	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 14:38	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 14:38	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 14:38	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 14:38	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 14:38	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 14:38	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 14:38	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 14:38	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 14:38	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 14:38	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 14:38	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 14:38	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 14:38	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 14:38	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 14:38	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 14:38	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 14:38	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 14:38	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 14:38	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 14:38	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 14:38	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 14:38	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 14:38	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 14:38	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 14:38	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 14:38	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 14:38	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 14:38	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 14:38	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 14:38	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 14:38	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 14:38	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 14:38	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 14:38	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 14:38	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 14:38	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 14:38	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 14:38	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 14:38	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 14:38	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 14:38	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 14:38	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 14:38	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 14:38	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 14:38	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

**Date Collected: 05/08/24 10:08**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 14:38	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 14:38	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 14:38	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 14:38	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 14:38	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 14:38	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 14:38	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 14:38	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 14:38	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 14:38	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 14:38	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 14:38	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 14:38	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 14:38	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 14:38	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 14:38	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 14:38	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 14:38	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 14:38	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 14:38	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 14:38	1
Dibromofluoromethane (Surr)	98		75 - 131		05/14/24 14:38	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 14:38	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 05:50	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 04:03	1
<b>1,4-Dioxane</b>	<b>0.109</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 03:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

Date Collected: 05/08/24 10:08

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 04:03	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 03:47	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 04:03	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 03:47	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 04:03	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 03:47	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 04:03	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 03:47	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 04:03	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 03:47	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 04:03	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 03:47	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 04:03	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 03:47	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 04:03	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 03:47	1
<b>Benzo[a]anthracene</b>	<b>0.0176</b>	<b>J I B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 04:03	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 03:47	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 04:03	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 03:47	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 04:03	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 03:47	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 04:03	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 03:47	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 04:03	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

Date Collected: 05/08/24 10:08

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzyl alcohol</b>	<b>1.20</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 03:47	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 04:03	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 03:47	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 04:03	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 03:47	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 04:03	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 03:47	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 04:03	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 03:47	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 04:03	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 03:47	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 04:03	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 03:47	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 04:03	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 03:47	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 04:03	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 03:47	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 04:03	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 03:47	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 04:03	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 03:47	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 04:03	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 03:47	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 04:03	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 03:47	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 04:03	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 03:47	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 04:03	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 03:47	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 04:03	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 03:47	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 04:03	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 03:47	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 04:03	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 03:47	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 04:03	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:47	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:03	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 03:47	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 04:03	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 03:47	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 04:03	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 03:47	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 04:03	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 03:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

**Date Collected: 05/08/24 10:08**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 04:03	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 03:47	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 04:03	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 03:47	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 04:03	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 03:47	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 04:03	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 03:47	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 04:03	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 07:00	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 04:03	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 03:47	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 04:03	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 03:47	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 04:03	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 03:47	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 04:03	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 03:47	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 04:03	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 03:47	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 04:03	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 03:47	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 04:03	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 03:47	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 04:03	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

**Date Collected: 05/08/24 10:08**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 03:47	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 04:03	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 03:47	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 04:03	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 03:47	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 04:03	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 03:47	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 04:03	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 03:47	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 04:03	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 03:47	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 04:03	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 03:47	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 04:03	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 03:47	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 04:03	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 03:47	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 04:03	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 03:47	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 04:03	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 03:47	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 04:03	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 03:47	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 04:03	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 03:47	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 04:03	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 03:47	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 04:03	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 03:47	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 04:03	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 03:47	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 04:03	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 03:47	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 04:03	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 03:47	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 04:03	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 03:47	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 04:03	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 03:47	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 04:03	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 03:47	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 04:03	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 03:47	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 04:03	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 03:47	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 04:03	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 03:47	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 03:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-2**

**Lab Sample ID: 860-73924-2**

**Date Collected: 05/08/24 10:08**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 04:03	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 03:47	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 04:03	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 03:47	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 04:03	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 03:47	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 04:03	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:47	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:03	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:47	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:03	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 03:47	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 04:03	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 03:47	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 04:03	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 03:47	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:03	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 03:47	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 04:03	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 03:47	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 04:03	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 03:47	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130	05/10/24 10:20	05/11/24 03:47	1
2,4,6-Tribromophenol (Surr)	121		35 - 130	05/14/24 14:30	05/18/24 04:03	1
2-Fluorobiphenyl	125		43 - 130	05/10/24 10:20	05/11/24 03:47	1
2-Fluorobiphenyl	120		43 - 130	05/14/24 14:30	05/18/24 04:03	1
2-Fluorophenol (Surr)	87		19 - 120	05/10/24 10:20	05/11/24 03:47	1
2-Fluorophenol (Surr)	105		19 - 120	05/14/24 14:30	05/18/24 04:03	1
Nitrobenzene-d5 (Surr)	180	S1+	37 - 133	05/10/24 10:20	05/11/24 03:47	1
Nitrobenzene-d5 (Surr)	140	S1+	37 - 133	05/14/24 14:30	05/18/24 04:03	1
Phenol-d5 (Surr)	56		8 - 124	05/10/24 10:20	05/11/24 03:47	1
Phenol-d5 (Surr)	77		8 - 124	05/14/24 14:30	05/18/24 04:03	1
p-Terphenyl-d14	122		47 - 130	05/10/24 10:20	05/11/24 03:47	1
p-Terphenyl-d14	116		47 - 130	05/14/24 14:30	05/18/24 04:03	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 14:59	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 14:59	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 14:59	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 14:59	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 14:59	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 14:59	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 14:59	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 14:59	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 14:59	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 14:59	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 14:59	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 14:59	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 14:59	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 14:59	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 14:59	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 14:59	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 14:59	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 14:59	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 14:59	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 14:59	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 14:59	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 14:59	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 14:59	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 14:59	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 14:59	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 14:59	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 14:59	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 14:59	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 14:59	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 14:59	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 14:59	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 14:59	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 14:59	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 14:59	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 14:59	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 14:59	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 14:59	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 14:59	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 14:59	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 14:59	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 14:59	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 14:59	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 14:59	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 14:59	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 14:59	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 14:59	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 14:59	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 14:59	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 14:59	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 14:59	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 14:59	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 14:59	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 14:59	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 14:59	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 14:59	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 14:59	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 14:59	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 14:59	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 14:59	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 14:59	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 14:59	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 14:59	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 14:59	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 14:59	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 14:59	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 14:59	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 14:59	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/14/24 14:59	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/14/24 14:59	1
Dibromofluoromethane (Surr)	99		75 - 131		05/14/24 14:59	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 14:59	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 06:20	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/18/24 04:32	1
<b>1,4-Dioxane</b>	<b>0.151</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 04:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/18/24 04:32	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 04:17	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/18/24 04:32	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 04:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/18/24 04:32	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 04:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/18/24 04:32	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 04:17	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 04:32	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 04:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/18/24 04:32	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 04:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/18/24 04:32	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 04:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/18/24 04:32	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 04:17	1
<b>Benzo[a]anthracene</b>	<b>0.0183</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/18/24 04:32	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 04:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/18/24 04:32	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 04:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/18/24 04:32	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 04:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/18/24 04:32	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 04:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/18/24 04:32	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzyl alcohol</b>	<b>1.19</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 04:17	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/18/24 04:32	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 04:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/18/24 04:32	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 04:17	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/18/24 04:32	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 04:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/18/24 04:32	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 04:17	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 04:32	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 04:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/18/24 04:32	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 04:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/18/24 04:32	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 04:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 04:32	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 04:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/18/24 04:32	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 04:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/18/24 04:32	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 04:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/18/24 04:32	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 04:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/18/24 04:32	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 04:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/18/24 04:32	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 04:17	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/18/24 04:32	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 04:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/18/24 04:32	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 04:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/18/24 04:32	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 04:17	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/18/24 04:32	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 04:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/18/24 04:32	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:32	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 04:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/18/24 04:32	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 04:17	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/18/24 04:32	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 04:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/18/24 04:32	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 04:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/18/24 04:32	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 04:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/18/24 04:32	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 04:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/18/24 04:32	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 04:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/18/24 04:32	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 04:17	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/18/24 04:32	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 07:29	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/18/24 04:32	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 04:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/18/24 04:32	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 04:17	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/18/24 04:32	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 04:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/18/24 04:32	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 04:17	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/18/24 04:32	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 04:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/18/24 04:32	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 04:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/18/24 04:32	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 04:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/18/24 04:32	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

**Date Collected: 05/08/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 04:17	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/14/24 14:30	05/18/24 04:32	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 04:17	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:30	05/18/24 04:32	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 04:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/18/24 04:32	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 04:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 04:32	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 04:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/18/24 04:32	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 04:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/18/24 04:32	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 04:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 04:32	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 04:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/18/24 04:32	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 04:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 04:32	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 04:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/18/24 04:32	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 04:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/18/24 04:32	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 04:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/18/24 04:32	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 04:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/18/24 04:32	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 04:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/18/24 04:32	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 04:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/18/24 04:32	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 04:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/18/24 04:32	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 04:17	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/18/24 04:32	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 04:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/18/24 04:32	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 04:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 04:32	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 04:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/18/24 04:32	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 04:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/18/24 04:32	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 04:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/18/24 04:32	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 04:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/18/24 04:32	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 04:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 04:17	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: DUPE-04**

**Lab Sample ID: 860-73924-3**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/18/24 04:32	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 04:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/18/24 04:32	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 04:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/18/24 04:32	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 04:17	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/18/24 04:32	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:17	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:32	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:17	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:32	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 04:17	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/18/24 04:32	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 04:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/18/24 04:32	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:17	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/18/24 04:32	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 04:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/18/24 04:32	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 04:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/18/24 04:32	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 04:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/18/24 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130	05/10/24 10:20	05/11/24 04:17	1
2,4,6-Tribromophenol (Surr)	111		35 - 130	05/14/24 14:30	05/18/24 04:32	1
2-Fluorobiphenyl	115		43 - 130	05/10/24 10:20	05/11/24 04:17	1
2-Fluorobiphenyl	113		43 - 130	05/14/24 14:30	05/18/24 04:32	1
2-Fluorophenol (Surr)	81		19 - 120	05/10/24 10:20	05/11/24 04:17	1
2-Fluorophenol (Surr)	107		19 - 120	05/14/24 14:30	05/18/24 04:32	1
Nitrobenzene-d5 (Surr)	165	S1+	37 - 133	05/10/24 10:20	05/11/24 04:17	1
Nitrobenzene-d5 (Surr)	144	S1+	37 - 133	05/14/24 14:30	05/18/24 04:32	1
Phenol-d5 (Surr)	52		8 - 124	05/10/24 10:20	05/11/24 04:17	1
Phenol-d5 (Surr)	74		8 - 124	05/14/24 14:30	05/18/24 04:32	1
p-Terphenyl-d14	120		47 - 130	05/10/24 10:20	05/11/24 04:17	1
p-Terphenyl-d14	119		47 - 130	05/14/24 14:30	05/18/24 04:32	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**

**Lab Sample ID: 860-73924-4**

Date Collected: 05/08/24 10:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 15:19	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 15:19	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 15:19	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 15:19	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 15:19	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 15:19	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 15:19	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 15:19	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 15:19	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 15:19	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 15:19	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 15:19	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 15:19	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 15:19	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 15:19	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 15:19	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 15:19	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 15:19	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 15:19	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 15:19	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 15:19	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 15:19	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 15:19	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 15:19	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 15:19	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 15:19	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 15:19	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 15:19	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 15:19	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 15:19	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 15:19	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 15:19	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 15:19	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 15:19	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 15:19	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 15:19	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 15:19	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 15:19	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 15:19	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 15:19	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 15:19	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 15:19	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 15:19	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 15:19	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 15:19	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 15:19	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 15:19	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 15:19	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**

**Lab Sample ID: 860-73924-4**

Date Collected: 05/08/24 10:29

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 15:19	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 15:19	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 15:19	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 15:19	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 15:19	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 15:19	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 15:19	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 15:19	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 15:19	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 15:19	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 15:19	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 15:19	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 15:19	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 15:19	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 15:19	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 15:19	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 15:19	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 15:19	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 15:19	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 15:19	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 15:19	1
Dibromofluoromethane (Surr)	98		75 - 131		05/14/24 15:19	1
Toluene-d8 (Surr)	101		80 - 120		05/14/24 15:19	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 06:49	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,4,5-Trichlorophenol	<0.143	U *	0.571	0.143	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 13:46	05/18/24 05:01	1
<b>1,4-Dioxane</b>	<b>0.109</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 04:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**

**Lab Sample ID: 860-73924-4**

Date Collected: 05/08/24 10:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 13:46	05/18/24 05:01	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/11/24 04:48	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 13:46	05/18/24 05:01	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 04:48	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 13:46	05/18/24 05:01	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 04:48	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 13:46	05/18/24 05:01	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 04:48	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:01	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 04:48	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 13:46	05/18/24 05:01	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 04:48	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 13:46	05/18/24 05:01	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 04:48	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 13:46	05/18/24 05:01	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 04:48	1
<b>Benzo[a]anthracene</b>	<b>0.0179</b>	<b>JI **</b>	0.0286	0.00953	ug/L		05/14/24 13:46	05/18/24 05:01	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/11/24 04:48	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 13:46	05/18/24 05:01	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 04:48	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 13:46	05/18/24 05:01	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 04:48	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 13:46	05/18/24 05:01	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 04:48	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 13:46	05/18/24 05:01	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**

**Lab Sample ID: 860-73924-4**

Date Collected: 05/08/24 10:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzyl alcohol</b>	<b>1.38</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 04:48	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 13:46	05/18/24 05:01	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 04:48	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 13:46	05/18/24 05:01	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/11/24 04:48	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 13:46	05/18/24 05:01	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 04:48	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 13:46	05/18/24 05:01	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 04:48	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 05:01	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 04:48	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 13:46	05/18/24 05:01	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 04:48	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 13:46	05/18/24 05:01	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 04:48	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:01	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 04:48	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 13:46	05/18/24 05:01	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 04:48	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 13:46	05/18/24 05:01	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 04:48	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 13:46	05/18/24 05:01	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 04:48	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 13:46	05/18/24 05:01	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 04:48	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 13:46	05/18/24 05:01	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 04:48	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 13:46	05/18/24 05:01	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/11/24 04:48	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 13:46	05/18/24 05:01	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 04:48	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 13:46	05/18/24 05:01	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 04:48	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 13:46	05/18/24 05:01	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 04:48	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 05:01	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:48	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:01	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 04:48	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:01	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 04:48	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 13:46	05/18/24 05:01	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 04:48	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 13:46	05/18/24 05:01	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 04:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**

**Lab Sample ID: 860-73924-4**

Date Collected: 05/08/24 10:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 13:46	05/18/24 05:01	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/11/24 04:48	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 13:46	05/18/24 05:01	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/11/24 04:48	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 13:46	05/18/24 05:01	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 04:48	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 13:46	05/18/24 05:01	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 04:48	1
Pyridine	<1.44	U *	2.86	1.44	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 13:46	05/18/24 05:01	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 07:57	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 13:46	05/18/24 05:01	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 04:48	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 13:46	05/18/24 05:01	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 04:48	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 13:46	05/18/24 05:01	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 04:48	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 13:46	05/18/24 05:01	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 04:48	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 05:01	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 04:48	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 13:46	05/18/24 05:01	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 04:48	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 13:46	05/18/24 05:01	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 04:48	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 13:46	05/18/24 05:01	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**  
**Date Collected: 05/08/24 10:29**  
**Date Received: 05/09/24 10:49**

**Lab Sample ID: 860-73924-4**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 04:48	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/14/24 13:46	05/18/24 05:01	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 04:48	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 05:01	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 04:48	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 13:46	05/18/24 05:01	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 04:48	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:01	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/11/24 04:48	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 13:46	05/18/24 05:01	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 04:48	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 13:46	05/18/24 05:01	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 04:48	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 05:01	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 04:48	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 05:01	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 04:48	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 05:01	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 04:48	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 05:01	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 04:48	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 05:01	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 04:48	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 13:46	05/18/24 05:01	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 04:48	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 13:46	05/18/24 05:01	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 04:48	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 13:46	05/18/24 05:01	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 04:48	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 13:46	05/18/24 05:01	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 04:48	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 13:46	05/18/24 05:01	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 04:48	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 13:46	05/18/24 05:01	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 04:48	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 13:46	05/18/24 05:01	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 04:48	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:01	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 04:48	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 13:46	05/18/24 05:01	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 04:48	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:01	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 04:48	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 13:46	05/18/24 05:01	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 04:48	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 13:46	05/18/24 05:01	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 04:48	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 04:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: RB-03**

**Lab Sample ID: 860-73924-4**

Date Collected: 05/08/24 10:29

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 13:46	05/18/24 05:01	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 04:48	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 13:46	05/18/24 05:01	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 04:48	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 13:46	05/18/24 05:01	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 04:48	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 13:46	05/18/24 05:01	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:48	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:01	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:48	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:01	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 04:48	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 13:46	05/18/24 05:01	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 04:48	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 05:01	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 04:48	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:01	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 04:48	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 13:46	05/18/24 05:01	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 04:48	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 13:46	05/18/24 05:01	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 04:48	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 13:46	05/18/24 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		35 - 130	05/10/24 10:20	05/11/24 04:48	1
2,4,6-Tribromophenol (Surr)	94		35 - 130	05/14/24 13:46	05/18/24 05:01	1
2-Fluorobiphenyl	110		43 - 130	05/10/24 10:20	05/11/24 04:48	1
2-Fluorobiphenyl	125		43 - 130	05/14/24 13:46	05/18/24 05:01	1
2-Fluorophenol (Surr)	58		19 - 120	05/10/24 10:20	05/11/24 04:48	1
2-Fluorophenol (Surr)	79		19 - 120	05/14/24 13:46	05/18/24 05:01	1
Nitrobenzene-d5 (Surr)	166	S1+	37 - 133	05/10/24 10:20	05/11/24 04:48	1
Nitrobenzene-d5 (Surr)	150	S1+	37 - 133	05/14/24 13:46	05/18/24 05:01	1
Phenol-d5 (Surr)	54		8 - 124	05/10/24 10:20	05/11/24 04:48	1
Phenol-d5 (Surr)	73		8 - 124	05/14/24 13:46	05/18/24 05:01	1
p-Terphenyl-d14	89		47 - 130	05/10/24 10:20	05/11/24 04:48	1
p-Terphenyl-d14	108		47 - 130	05/14/24 13:46	05/18/24 05:01	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 15:40	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 15:40	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 15:40	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 15:40	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 15:40	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 15:40	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 15:40	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 15:40	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 15:40	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 15:40	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 15:40	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 15:40	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 15:40	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 15:40	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 15:40	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 15:40	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 15:40	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 15:40	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 15:40	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 15:40	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 15:40	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 15:40	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 15:40	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 15:40	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 15:40	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 15:40	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 15:40	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 15:40	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 15:40	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 15:40	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 15:40	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 15:40	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 15:40	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 15:40	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 15:40	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 15:40	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 15:40	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 15:40	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 15:40	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 15:40	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 15:40	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 15:40	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 15:40	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 15:40	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 15:40	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 15:40	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 15:40	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 15:40	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 15:40	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 15:40	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 15:40	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 15:40	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 15:40	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 15:40	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 15:40	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 15:40	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 15:40	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 15:40	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 15:40	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 15:40	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 15:40	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 15:40	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 15:40	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 15:40	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 15:40	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 15:40	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 15:40	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 15:40	1
4-Bromofluorobenzene (Surr)	102		74 - 124		05/14/24 15:40	1
Dibromofluoromethane (Surr)	100		75 - 131		05/14/24 15:40	1
Toluene-d8 (Surr)	99		80 - 120		05/14/24 15:40	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 07:19	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,4,5-Trichlorophenol	<0.143	U *	0.571	0.143	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 13:46	05/18/24 05:29	1
<b>1,4-Dioxane</b>	<b>0.197</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 07:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/14/24 08:26	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 13:46	05/18/24 05:29	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/14/24 08:26	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 13:46	05/18/24 05:29	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 07:48	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 13:46	05/18/24 05:29	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 07:48	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 13:46	05/18/24 05:29	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 07:48	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:29	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 07:48	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 13:46	05/18/24 05:29	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 07:48	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 13:46	05/18/24 05:29	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 07:48	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 13:46	05/18/24 05:29	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 07:48	1
<b>Benzo[a]anthracene</b>	<b>0.0114</b>	<b>JI **</b>	0.0286	0.00953	ug/L		05/14/24 13:46	05/18/24 05:29	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/14/24 08:26	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 13:46	05/18/24 05:29	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 07:48	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 13:46	05/18/24 05:29	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 07:48	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 13:46	05/18/24 05:29	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 07:48	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 13:46	05/18/24 05:29	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzyl alcohol</b>	<b>1.17</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 07:48	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 13:46	05/18/24 05:29	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 07:48	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 13:46	05/18/24 05:29	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/14/24 08:26	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 13:46	05/18/24 05:29	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 07:48	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 13:46	05/18/24 05:29	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 07:48	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 05:29	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 07:48	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 13:46	05/18/24 05:29	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 07:48	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 13:46	05/18/24 05:29	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 07:48	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:29	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 07:48	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 13:46	05/18/24 05:29	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 07:48	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 13:46	05/18/24 05:29	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 07:48	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 13:46	05/18/24 05:29	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 07:48	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 13:46	05/18/24 05:29	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 07:48	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 13:46	05/18/24 05:29	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 07:48	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 13:46	05/18/24 05:29	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/15/24 07:19	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 13:46	05/18/24 05:29	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 07:48	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 13:46	05/18/24 05:29	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 07:48	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 13:46	05/18/24 05:29	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 07:48	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 05:29	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 07:48	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:29	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 07:48	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:29	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 07:48	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 13:46	05/18/24 05:29	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 07:48	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 13:46	05/18/24 05:29	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 07:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 13:46	05/18/24 05:29	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/14/24 08:26	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 13:46	05/18/24 05:29	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/14/24 08:26	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 13:46	05/18/24 05:29	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 07:48	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 13:46	05/18/24 05:29	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 07:48	1
Pyridine	<1.44	U *	2.86	1.44	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 13:46	05/18/24 05:29	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 08:26	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 13:46	05/18/24 05:29	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 07:48	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 13:46	05/18/24 05:29	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 07:48	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 13:46	05/18/24 05:29	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 07:48	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 13:46	05/18/24 05:29	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 07:48	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 05:29	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 07:48	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 13:46	05/18/24 05:29	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 07:48	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 13:46	05/18/24 05:29	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 07:48	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 13:46	05/18/24 05:29	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 07:48	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/14/24 13:46	05/18/24 05:29	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 07:48	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 05:29	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 07:48	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 13:46	05/18/24 05:29	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 07:48	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:29	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/10/24 10:20	05/15/24 07:19	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 13:46	05/18/24 05:29	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 07:48	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 13:46	05/18/24 05:29	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 07:48	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 05:29	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 05:29	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 07:48	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 05:29	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 07:48	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 05:29	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 07:48	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 05:29	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 07:48	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 13:46	05/18/24 05:29	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 07:48	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 13:46	05/18/24 05:29	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 07:48	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 13:46	05/18/24 05:29	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 07:48	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 13:46	05/18/24 05:29	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 07:48	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 13:46	05/18/24 05:29	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 07:48	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 13:46	05/18/24 05:29	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 07:48	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 13:46	05/18/24 05:29	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 07:48	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:29	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 07:48	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 13:46	05/18/24 05:29	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 07:48	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:29	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 07:48	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 13:46	05/18/24 05:29	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 07:48	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 13:46	05/18/24 05:29	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 07:48	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 13:46	05/18/24 05:29	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-03**

**Lab Sample ID: 860-73924-5**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 13:46	05/18/24 05:29	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 07:48	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 13:46	05/18/24 05:29	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 07:48	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 13:46	05/18/24 05:29	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 07:48	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 13:46	05/18/24 05:29	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 07:48	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:29	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 07:48	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:29	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 07:48	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 13:46	05/18/24 05:29	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 07:48	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 05:29	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 07:48	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:29	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 07:48	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 13:46	05/18/24 05:29	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 07:48	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 13:46	05/18/24 05:29	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 07:48	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 13:46	05/18/24 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	139	S1+	35 - 130	05/10/24 10:20	05/11/24 07:48	1
2,4,6-Tribromophenol (Surr)	110		35 - 130	05/14/24 13:46	05/18/24 05:29	1
2-Fluorobiphenyl	111		43 - 130	05/10/24 10:20	05/11/24 07:48	1
2-Fluorobiphenyl	116		43 - 130	05/14/24 13:46	05/18/24 05:29	1
2-Fluorophenol (Surr)	82		19 - 120	05/10/24 10:20	05/11/24 07:48	1
2-Fluorophenol (Surr)	110		19 - 120	05/14/24 13:46	05/18/24 05:29	1
Nitrobenzene-d5 (Surr)	151	S1+	37 - 133	05/10/24 10:20	05/11/24 07:48	1
Nitrobenzene-d5 (Surr)	141	S1+	37 - 133	05/14/24 13:46	05/18/24 05:29	1
Phenol-d5 (Surr)	54		8 - 124	05/10/24 10:20	05/11/24 07:48	1
Phenol-d5 (Surr)	79		8 - 124	05/14/24 13:46	05/18/24 05:29	1
p-Terphenyl-d14	111		47 - 130	05/10/24 10:20	05/11/24 07:48	1
p-Terphenyl-d14	123		47 - 130	05/14/24 13:46	05/18/24 05:29	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: FB-03**

**Lab Sample ID: 860-73924-6**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 16:00	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 16:00	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 16:00	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 16:00	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 16:00	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 16:00	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 16:00	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 16:00	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 16:00	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 16:00	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 16:00	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 16:00	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 16:00	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 16:00	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 16:00	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 16:00	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 16:00	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 16:00	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 16:00	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 16:00	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 16:00	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 16:00	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 16:00	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 16:00	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 16:00	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 16:00	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 16:00	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 16:00	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 16:00	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 16:00	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 16:00	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 16:00	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 16:00	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 16:00	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 16:00	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 16:00	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 16:00	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 16:00	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 16:00	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 16:00	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 16:00	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 16:00	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 16:00	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 16:00	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 16:00	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 16:00	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 16:00	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 16:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: FB-03**

**Lab Sample ID: 860-73924-6**

Date Collected: 05/08/24 12:45

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 16:00	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 16:00	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 16:00	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 16:00	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 16:00	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 16:00	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 16:00	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 16:00	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 16:00	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 16:00	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 16:00	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 16:00	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 16:00	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 16:00	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 16:00	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 16:00	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 16:00	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 16:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 16:00	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/14/24 16:00	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 16:00	1
Dibromofluoromethane (Surr)	98		75 - 131		05/14/24 16:00	1
Toluene-d8 (Surr)	99		80 - 120		05/14/24 16:00	1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

Date Collected: 05/08/24 13:39

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 16:21	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 16:21	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 16:21	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 16:21	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 16:21	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 16:21	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 16:21	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 16:21	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 16:21	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 16:21	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 16:21	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 16:21	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 16:21	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 16:21	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 16:21	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 16:21	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

**Date Collected: 05/08/24 13:39**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 16:21	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 16:21	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 16:21	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 16:21	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 16:21	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 16:21	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 16:21	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 16:21	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 16:21	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 16:21	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 16:21	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 16:21	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 16:21	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 16:21	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 16:21	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 16:21	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 16:21	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 16:21	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 16:21	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 16:21	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 16:21	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 16:21	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 16:21	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 16:21	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 16:21	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 16:21	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 16:21	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 16:21	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 16:21	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 16:21	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 16:21	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 16:21	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 16:21	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 16:21	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 16:21	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 16:21	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 16:21	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 16:21	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 16:21	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 16:21	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 16:21	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 16:21	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 16:21	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 16:21	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 16:21	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 16:21	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 16:21	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 16:21	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 16:21	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

**Date Collected: 05/08/24 13:39**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 16:21	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 16:21	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144					05/14/24 16:21	1
4-Bromofluorobenzene (Surr)	99		74 - 124					05/14/24 16:21	1
Dibromofluoromethane (Surr)	95		75 - 131					05/14/24 16:21	1
Toluene-d8 (Surr)	101		80 - 120					05/14/24 16:21	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 07:48	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,4,5-Trichlorophenol	<0.143	U *	0.571	0.143	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 13:46	05/18/24 05:58	1
<b>1,4-Dioxane</b>	<b>0.220</b>	<b>J I</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,4-Dinitrotoluene	<0.205	U *	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,4-Dinitrotoluene	<0.205	U *	0.571	0.205	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,6-Dinitrotoluene	<0.116	U *	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,6-Dinitrotoluene	<0.116	U *	0.571	0.116	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/14/24 08:54	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Nitrophenol	<0.136	U *	0.571	0.136	ug/L		05/14/24 13:46	05/18/24 05:58	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/14/24 08:54	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 13:46	05/18/24 05:58	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

**Date Collected: 05/08/24 13:39**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 08:18	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 13:46	05/18/24 05:58	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 08:18	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Bromophenyl phenyl ether	<0.100	U *	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 13:46	05/18/24 05:58	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 08:18	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:58	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 08:18	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 13:46	05/18/24 05:58	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 08:18	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 13:46	05/18/24 05:58	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 08:18	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 13:46	05/18/24 05:58	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 08:18	1
<b>Benzo[a]anthracene</b>	<b>0.0165</b>	<b>JI *</b>	0.0286	0.00953	ug/L		05/14/24 13:46	05/18/24 05:58	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/14/24 08:54	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 13:46	05/18/24 05:58	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 08:18	1
Benzo[b]fluoranthene	<0.0664	U *	0.571	0.0664	ug/L		05/14/24 13:46	05/18/24 05:58	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 08:18	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 13:46	05/18/24 05:58	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 08:18	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 13:46	05/18/24 05:58	1
<b>Benzyl alcohol</b>	<b>1.15</b>	<b>B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 08:18	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 13:46	05/18/24 05:58	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 08:18	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 13:46	05/18/24 05:58	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/14/24 08:54	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 13:46	05/18/24 05:58	1
Bis(2-ethylhexyl) phthalate	<0.900	U *	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 08:18	1
Bis(2-ethylhexyl) phthalate	<0.900	U *	1.14	0.900	ug/L		05/14/24 13:46	05/18/24 05:58	1
Butyl benzyl phthalate	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 08:18	1
Butyl benzyl phthalate	<0.500	U *	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 05:58	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 08:18	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 13:46	05/18/24 05:58	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 08:18	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 13:46	05/18/24 05:58	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 08:18	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:58	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 08:18	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

Date Collected: 05/08/24 13:39

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 13:46	05/18/24 05:58	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 08:18	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 13:46	05/18/24 05:58	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 08:18	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 13:46	05/18/24 05:58	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 08:18	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 13:46	05/18/24 05:58	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 08:18	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 13:46	05/18/24 05:58	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 08:18	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 13:46	05/18/24 05:58	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/15/24 07:48	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 13:46	05/18/24 05:58	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 08:18	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 13:46	05/18/24 05:58	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 08:18	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 13:46	05/18/24 05:58	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 08:18	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 05:58	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:18	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:58	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 08:18	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 05:58	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 08:18	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 13:46	05/18/24 05:58	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 08:18	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 13:46	05/18/24 05:58	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 08:18	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 13:46	05/18/24 05:58	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/14/24 08:54	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 13:46	05/18/24 05:58	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/14/24 08:54	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 13:46	05/18/24 05:58	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 08:18	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 13:46	05/18/24 05:58	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 08:18	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 13:46	05/18/24 05:58	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 08:54	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 13:46	05/18/24 05:58	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

Date Collected: 05/08/24 13:39

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 08:18	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 13:46	05/18/24 05:58	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 08:18	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 13:46	05/18/24 05:58	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 08:18	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 13:46	05/18/24 05:58	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 08:18	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 05:58	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 08:18	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 13:46	05/18/24 05:58	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 08:18	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 13:46	05/18/24 05:58	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 08:18	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 13:46	05/18/24 05:58	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 08:18	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/14/24 13:46	05/18/24 05:58	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 08:18	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 05:58	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 08:18	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 13:46	05/18/24 05:58	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 08:18	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:58	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/15/24 07:48	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 13:46	05/18/24 05:58	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 08:18	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 13:46	05/18/24 05:58	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 08:18	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 05:58	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 05:58	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 05:58	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 08:18	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

Date Collected: 05/08/24 13:39

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 05:58	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 08:18	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 05:58	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 08:18	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 13:46	05/18/24 05:58	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 08:18	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 13:46	05/18/24 05:58	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 08:18	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 13:46	05/18/24 05:58	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 08:18	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 13:46	05/18/24 05:58	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 08:18	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 13:46	05/18/24 05:58	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 08:18	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 13:46	05/18/24 05:58	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 08:18	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 13:46	05/18/24 05:58	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:58	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 08:18	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 13:46	05/18/24 05:58	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 08:18	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 05:58	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 08:18	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 13:46	05/18/24 05:58	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 08:18	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 13:46	05/18/24 05:58	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 08:18	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 13:46	05/18/24 05:58	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 08:18	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 13:46	05/18/24 05:58	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 08:18	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 13:46	05/18/24 05:58	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 08:18	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 13:46	05/18/24 05:58	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:18	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:58	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:18	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:58	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 08:18	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

**Date Collected: 05/08/24 13:39**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 13:46	05/18/24 05:58	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 08:18	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 05:58	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:18	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 05:58	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 08:18	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 13:46	05/18/24 05:58	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 08:18	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 13:46	05/18/24 05:58	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 08:18	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 13:46	05/18/24 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	142	S1+	35 - 130	05/10/24 10:20	05/11/24 08:18	1
2,4,6-Tribromophenol (Surr)	117		35 - 130	05/14/24 13:46	05/18/24 05:58	1
2-Fluorobiphenyl	111		43 - 130	05/10/24 10:20	05/11/24 08:18	1
2-Fluorobiphenyl	124		43 - 130	05/14/24 13:46	05/18/24 05:58	1
2-Fluorophenol (Surr)	76		19 - 120	05/10/24 10:20	05/11/24 08:18	1
2-Fluorophenol (Surr)	110		19 - 120	05/14/24 13:46	05/18/24 05:58	1
Nitrobenzene-d5 (Surr)	158	S1+	37 - 133	05/10/24 10:20	05/11/24 08:18	1
Nitrobenzene-d5 (Surr)	145	S1+	37 - 133	05/14/24 13:46	05/18/24 05:58	1
Phenol-d5 (Surr)	49		8 - 124	05/10/24 10:20	05/11/24 08:18	1
Phenol-d5 (Surr)	78		8 - 124	05/14/24 13:46	05/18/24 05:58	1
p-Terphenyl-d14	101		47 - 130	05/10/24 10:20	05/11/24 08:18	1
p-Terphenyl-d14	111		47 - 130	05/14/24 13:46	05/18/24 05:58	1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

**Date Collected: 05/08/24 14:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L		05/14/24 16:41	05/14/24 16:41	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L		05/14/24 16:41	05/14/24 16:41	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L		05/14/24 16:41	05/14/24 16:41	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L		05/14/24 16:41	05/14/24 16:41	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L		05/14/24 16:41	05/14/24 16:41	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

**Date Collected: 05/08/24 14:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 16:41	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 16:41	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 16:41	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 16:41	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 16:41	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 16:41	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 16:41	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 16:41	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 16:41	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 16:41	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 16:41	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 16:41	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 16:41	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 16:41	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 16:41	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 16:41	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 16:41	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 16:41	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 16:41	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 16:41	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 16:41	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 16:41	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 16:41	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 16:41	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 16:41	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 16:41	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 16:41	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 16:41	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 16:41	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 16:41	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 16:41	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 16:41	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 16:41	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 16:41	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 16:41	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 16:41	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 16:41	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 16:41	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 16:41	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 16:41	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 16:41	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 16:41	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 16:41	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 16:41	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 16:41	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 16:41	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 16:41	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 16:41	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 16:41	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

**Date Collected: 05/08/24 14:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 16:41	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					05/14/24 16:41	1
4-Bromofluorobenzene (Surr)	100		74 - 124					05/14/24 16:41	1
Dibromofluoromethane (Surr)	96		75 - 131					05/14/24 16:41	1
Toluene-d8 (Surr)	100		80 - 120					05/14/24 16:41	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/15/24 08:17	1
<b>2,2'-oxybis[1-chloropropane]</b>	<b>1.60</b>	<b>J</b>	2.86	1.43	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 13:46	05/18/24 06:27	1
<b>1,4-Dioxane</b>	<b>0.307</b>	<b>J</b>	0.571	0.0890	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/14/24 09:22	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 13:46	05/18/24 06:27	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/14/24 09:22	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 13:46	05/18/24 06:27	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/11/24 08:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

Date Collected: 05/08/24 14:40

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 13:46	05/18/24 06:27	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/11/24 08:48	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 13:46	05/18/24 06:27	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 08:48	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 06:27	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/11/24 08:48	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 13:46	05/18/24 06:27	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/11/24 08:48	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 13:46	05/18/24 06:27	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/11/24 08:48	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 13:46	05/18/24 06:27	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/11/24 08:48	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 13:46	05/18/24 06:27	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/14/24 09:22	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 13:46	05/18/24 06:27	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/11/24 08:48	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 13:46	05/18/24 06:27	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/11/24 08:48	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 13:46	05/18/24 06:27	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/11/24 08:48	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 13:46	05/18/24 06:27	1
<b>Benzyl alcohol</b>	<b>0.943</b>	<b>J B</b>	1.14	0.600	ug/L		05/10/24 10:20	05/11/24 08:48	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 13:46	05/18/24 06:27	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/11/24 08:48	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 13:46	05/18/24 06:27	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/14/24 09:22	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 13:46	05/18/24 06:27	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/10/24 10:20	05/11/24 08:48	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 13:46	05/18/24 06:27	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 08:48	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 06:27	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/11/24 08:48	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 13:46	05/18/24 06:27	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/11/24 08:48	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 13:46	05/18/24 06:27	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 08:48	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 06:27	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/11/24 08:48	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 13:46	05/18/24 06:27	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

**Date Collected: 05/08/24 14:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/10/24 10:20	05/11/24 08:48	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 13:46	05/18/24 06:27	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/10/24 10:20	05/11/24 08:48	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 13:46	05/18/24 06:27	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/11/24 08:48	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 13:46	05/18/24 06:27	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/11/24 08:48	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 13:46	05/18/24 06:27	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/11/24 08:48	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 13:46	05/18/24 06:27	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/15/24 08:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 13:46	05/18/24 06:27	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/11/24 08:48	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 13:46	05/18/24 06:27	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/11/24 08:48	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 13:46	05/18/24 06:27	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/11/24 08:48	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/18/24 06:27	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:48	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 06:27	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/11/24 08:48	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/18/24 06:27	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/11/24 08:48	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 13:46	05/18/24 06:27	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/10/24 10:20	05/11/24 08:48	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 13:46	05/18/24 06:27	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/11/24 08:48	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 13:46	05/18/24 06:27	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/14/24 09:22	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 13:46	05/18/24 06:27	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/14/24 09:22	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 13:46	05/18/24 06:27	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/11/24 08:48	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 13:46	05/18/24 06:27	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/11/24 08:48	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 13:46	05/18/24 06:27	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/14/24 09:22	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 13:46	05/18/24 06:27	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/11/24 08:48	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

Date Collected: 05/08/24 14:40

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 13:46	05/18/24 06:27	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/11/24 08:48	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 13:46	05/18/24 06:27	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/10/24 10:20	05/11/24 08:48	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 13:46	05/18/24 06:27	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/10/24 10:20	05/11/24 08:48	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/14/24 13:46	05/18/24 06:27	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/11/24 08:48	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 13:46	05/18/24 06:27	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/11/24 08:48	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 13:46	05/18/24 06:27	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/11/24 08:48	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 13:46	05/18/24 06:27	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/10/24 10:20	05/11/24 08:48	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/14/24 13:46	05/18/24 06:27	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/11/24 08:48	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 13:46	05/18/24 06:27	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/10/24 10:20	05/11/24 08:48	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 13:46	05/18/24 06:27	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 08:48	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 06:27	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/10/24 10:20	05/15/24 08:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 13:46	05/18/24 06:27	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/10/24 10:20	05/11/24 08:48	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 13:46	05/18/24 06:27	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/10/24 10:20	05/11/24 08:48	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 06:27	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 13:46	05/18/24 06:27	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 06:27	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/11/24 08:48	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/18/24 06:27	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

**Date Collected: 05/08/24 14:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/11/24 08:48	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/18/24 06:27	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/11/24 08:48	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 13:46	05/18/24 06:27	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/11/24 08:48	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 13:46	05/18/24 06:27	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/11/24 08:48	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 13:46	05/18/24 06:27	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/11/24 08:48	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 13:46	05/18/24 06:27	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/11/24 08:48	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 13:46	05/18/24 06:27	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/11/24 08:48	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 13:46	05/18/24 06:27	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/11/24 08:48	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 13:46	05/18/24 06:27	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 08:48	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 06:27	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/11/24 08:48	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 13:46	05/18/24 06:27	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/11/24 08:48	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/18/24 06:27	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/11/24 08:48	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 13:46	05/18/24 06:27	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/11/24 08:48	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 13:46	05/18/24 06:27	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/11/24 08:48	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 13:46	05/18/24 06:27	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/11/24 08:48	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 13:46	05/18/24 06:27	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/11/24 08:48	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 13:46	05/18/24 06:27	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/11/24 08:48	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 13:46	05/18/24 06:27	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:48	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 06:27	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:48	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 06:27	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/11/24 08:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

**Date Collected: 05/08/24 14:40**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 13:46	05/18/24 06:27	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/10/24 10:20	05/11/24 08:48	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/14/24 13:46	05/18/24 06:27	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/10/24 10:20	05/11/24 08:48	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 13:46	05/18/24 06:27	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/11/24 08:48	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 13:46	05/18/24 06:27	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/11/24 08:48	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 13:46	05/18/24 06:27	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/11/24 08:48	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 13:46	05/18/24 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	133	S1+	35 - 130	05/10/24 10:20	05/11/24 08:48	1
2,4,6-Tribromophenol (Surr)	125		35 - 130	05/14/24 13:46	05/18/24 06:27	1
2-Fluorobiphenyl	117		43 - 130	05/10/24 10:20	05/11/24 08:48	1
2-Fluorobiphenyl	130		43 - 130	05/14/24 13:46	05/18/24 06:27	1
2-Fluorophenol (Surr)	71		19 - 120	05/10/24 10:20	05/11/24 08:48	1
2-Fluorophenol (Surr)	103		19 - 120	05/14/24 13:46	05/18/24 06:27	1
Nitrobenzene-d5 (Surr)	158	S1+	37 - 133	05/10/24 10:20	05/11/24 08:48	1
Nitrobenzene-d5 (Surr)	140	S1+	37 - 133	05/14/24 13:46	05/18/24 06:27	1
Phenol-d5 (Surr)	43		8 - 124	05/10/24 10:20	05/11/24 08:48	1
Phenol-d5 (Surr)	72		8 - 124	05/14/24 13:46	05/18/24 06:27	1
p-Terphenyl-d14	99		47 - 130	05/10/24 10:20	05/11/24 08:48	1
p-Terphenyl-d14	119		47 - 130	05/14/24 13:46	05/18/24 06:27	1

**Client Sample ID: TB-04 (050824)**

**Lab Sample ID: 860-73924-9**

**Date Collected: 05/08/24 00:00**

**Matrix: Water**

**Date Received: 05/09/24 10:49**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L		05/14/24 13:57	05/14/24 13:57	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L		05/14/24 13:57	05/14/24 13:57	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L		05/14/24 13:57	05/14/24 13:57	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L		05/14/24 13:57	05/14/24 13:57	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L		05/14/24 13:57	05/14/24 13:57	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: TB-04 (050824)**

**Lab Sample ID: 860-73924-9**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 13:57	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 13:57	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 13:57	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 13:57	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 13:57	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 13:57	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 13:57	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 13:57	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 13:57	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 13:57	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 13:57	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 13:57	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 13:57	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 13:57	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 13:57	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 13:57	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 13:57	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 13:57	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 13:57	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 13:57	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 13:57	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 13:57	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 13:57	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 13:57	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 13:57	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 13:57	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 13:57	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 13:57	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 13:57	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 13:57	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 13:57	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 13:57	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 13:57	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 13:57	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 13:57	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 13:57	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 13:57	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 13:57	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 13:57	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 13:57	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 13:57	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 13:57	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 13:57	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 13:57	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 13:57	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 13:57	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 13:57	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 13:57	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 13:57	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: TB-04 (050824)**

**Lab Sample ID: 860-73924-9**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 13:57	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/14/24 13:57	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 13:57	1
Dibromofluoromethane (Surr)	99		75 - 131		05/14/24 13:57	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 13:57	1

# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-73924-1	HMW-1	102	99	99	99
860-73924-1 MS	HMW-1	96	100	99	98
860-73924-2	HMW-2	102	100	98	100
860-73924-3	DUPE-04	101	99	99	100
860-73924-4	RB-03	102	100	98	101
860-73924-5	HMW-03	102	102	100	99
860-73924-6	FB-03	102	100	98	99
860-73924-7	HMW-5	99	99	95	101
860-73924-8	HMW-4	103	100	96	100
860-73924-9	TB-04 (050824)	104	100	99	100
LCS 860-160029/1011	Lab Control Sample	97	99	98	101
LCSD 860-160029/12	Lab Control Sample Dup	97	101	100	100
MB 860-160029/17	Method Blank	103	100	99	100

### Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-73924-1	HMW-1	143 S1+	114	79	170 S1+	49	108
860-73924-1	HMW-1	110	122	109	137 S1+	76	115
860-73924-2	HMW-2	150 S1+	125	87	180 S1+	56	122
860-73924-2	HMW-2	121	120	105	140 S1+	77	116
860-73924-3	DUPE-04	150 S1+	115	81	165 S1+	52	120
860-73924-3	DUPE-04	111	113	107	144 S1+	74	119
860-73924-4	RB-03	107	110	58	166 S1+	54	89
860-73924-4	RB-03	94	125	79	150 S1+	73	108
860-73924-5	HMW-03	139 S1+	111	82	151 S1+	54	111
860-73924-5	HMW-03	110	116	110	141 S1+	79	123
860-73924-7	HMW-5	142 S1+	111	76	158 S1+	49	101
860-73924-7	HMW-5	117	124	110	145 S1+	78	111
860-73924-8	HMW-4	133 S1+	117	71	158 S1+	43	99
860-73924-8	HMW-4	125	130	103	140 S1+	72	119
LCS 860-159586/2-A	Lab Control Sample	164 S1+	124	83	199 S1+	56	110
LCS 860-159586/4-A	Lab Control Sample	138 S1+	111	80	184 S1+	56	105
LCS 860-160152/2-A	Lab Control Sample	164 S1+	140 S1+	88	196 S1+	43	132 S1+
LCS 860-160152/4-A	Lab Control Sample	164 S1+	149 S1+	76	206 S1+	50	144 S1+
LCS 860-160172/2-A	Lab Control Sample	153 S1+	130	93	206 S1+	59	124
LCS 860-160172/4-A	Lab Control Sample	149 S1+	126	83	185 S1+	56	124
LCSD 860-159586/3-A	Lab Control Sample Dup	145 S1+	107	83	182 S1+	53	104
LCSD 860-159586/5-A	Lab Control Sample Dup	148 S1+	117	66	176 S1+	45	113
LCSD 860-160152/3-A	Lab Control Sample Dup	146 S1+	130	78	168 S1+	49	122
LCSD 860-160152/5-A	Lab Control Sample Dup	160 S1+	141 S1+	82	199 S1+	54	136 S1+

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# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
LCSD 860-160172/3-A	Lab Control Sample Dup	162 S1+	136 S1+	98	211 S1+	61	121
LCSD 860-160172/5-A	Lab Control Sample Dup	163 S1+	147 S1+	84	204 S1+	57	127
MB 860-159586/1-A	Method Blank	154 S1+	122	77	178 S1+	50	111
MB 860-160152/1-A	Method Blank	166 S1+	141 S1+	61	183 S1+	27	132 S1+
MB 860-160172/1-A	Method Blank	134 S1+	117	78	171 S1+	33	121

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14



# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-160029/17**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/14/24 12:56	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/14/24 12:56	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/14/24 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/14/24 12:56	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/14/24 12:56	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/14/24 12:56	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/14/24 12:56	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/14/24 12:56	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/14/24 12:56	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/14/24 12:56	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/14/24 12:56	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/14/24 12:56	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/14/24 12:56	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/14/24 12:56	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/14/24 12:56	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/14/24 12:56	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/14/24 12:56	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/14/24 12:56	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/14/24 12:56	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/14/24 12:56	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/14/24 12:56	1
Acetone	<3.07	U	100	3.07	ug/L			05/14/24 12:56	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/14/24 12:56	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/14/24 12:56	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/14/24 12:56	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/14/24 12:56	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/14/24 12:56	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/14/24 12:56	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/14/24 12:56	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/14/24 12:56	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/14/24 12:56	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/14/24 12:56	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/14/24 12:56	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/14/24 12:56	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/14/24 12:56	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/14/24 12:56	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/14/24 12:56	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/14/24 12:56	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/14/24 12:56	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/14/24 12:56	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/14/24 12:56	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/14/24 12:56	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/14/24 12:56	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/14/24 12:56	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/14/24 12:56	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/14/24 12:56	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/14/24 12:56	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/14/24 12:56	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160029/17**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/14/24 12:56	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/14/24 12:56	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/14/24 12:56	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/14/24 12:56	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/14/24 12:56	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/14/24 12:56	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/14/24 12:56	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/14/24 12:56	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/14/24 12:56	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/14/24 12:56	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/14/24 12:56	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/14/24 12:56	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/14/24 12:56	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/14/24 12:56	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/14/24 12:56	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/14/24 12:56	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/14/24 12:56	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/14/24 12:56	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/14/24 12:56	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/14/24 12:56	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/14/24 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/14/24 12:56	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/14/24 12:56	1
Dibromofluoromethane (Surr)	99		75 - 131		05/14/24 12:56	1
Toluene-d8 (Surr)	100		80 - 120		05/14/24 12:56	1

**Lab Sample ID: LCS 860-160029/1011**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.98		ug/L		110	72 - 125
1,1,1-Trichloroethane	50.0	53.43		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.67		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.99		ug/L		104	60 - 140
1,1,2-Trichloroethane	50.0	53.24		ug/L		106	75 - 130
1,1-Dichloroethane	50.0	53.65		ug/L		107	71 - 130
1,1-Dichloroethene	50.0	52.80		ug/L		106	50 - 150
1,2,3-Trichloropropane	50.0	52.65		ug/L		105	75 - 125
1,2,4-Trimethylbenzene	50.0	54.27		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.61		ug/L		105	59 - 125
1,2-Dibromoethane	50.0	53.37		ug/L		107	73 - 125
1,2-Dichloroethane	50.0	51.81		ug/L		104	72 - 130
1,2-Dichloropropane	50.0	52.91		ug/L		106	74 - 125
1,3,5-Trimethylbenzene	50.0	52.77		ug/L		106	60 - 140
1,3-Butadiene	50.0	50.57		ug/L		101	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160029/1011**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	50.39		ug/L		101	70 - 130
2-Butanone (MEK)	250	267.6		ug/L		107	60 - 140
2-Hexanone (MBK)	250	270.9		ug/L		108	60 - 140
2-Propanol	500	487.9		ug/L		98	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	47.74		ug/L		95	70 - 130
4-Methyl-2-pentanone	250	266.5		ug/L		107	60 - 140
Acetone	250	275.4		ug/L		110	60 - 140
Acetonitrile	500	490.4		ug/L		98	60 - 140
Acrolein	250	265.1		ug/L		106	60 - 140
Acrylonitrile	500	513.8		ug/L		103	60 - 140
alpha-Chlorotoluene	50.0	55.75		ug/L		112	75 - 125
Benzene	50.0	53.38		ug/L		107	75 - 125
Bromodichloromethane	50.0	53.72		ug/L		107	75 - 125
Bromoform	50.0	53.76		ug/L		108	70 - 130
Bromomethane	50.0	53.83		ug/L		108	60 - 140
Carbon disulfide	50.0	53.09		ug/L		106	60 - 140
Carbon tetrachloride	50.0	52.15		ug/L		104	70 - 125
Chlorobenzene	50.0	53.16		ug/L		106	82 - 135
Chlorodibromomethane	50.0	53.54		ug/L		107	73 - 125
Chloroethane	50.0	51.77		ug/L		104	60 - 140
Chloroform	50.0	51.45		ug/L		103	70 - 121
Chloromethane	50.0	51.69		ug/L		103	60 - 140
Chloroprene	50.0	56.30		ug/L		113	70 - 130
cis-1,2-Dichloroethene	50.0	53.05		ug/L		106	75 - 125
cis-1,3-Dichloropropene	50.0	52.93		ug/L		106	74 - 125
Cumene (isopropylbenzene)	50.0	54.95		ug/L		110	75 - 125
Cyclohexane	50.0	50.54		ug/L		101	70 - 130
Dibromomethane	50.0	52.29		ug/L		105	69 - 127
Dichlorodifluoromethane	50.0	49.95		ug/L		100	50 - 150
Ethyl methacrylate	50.0	54.78		ug/L		110	70 - 130
Ethylbenzene	50.0	54.18		ug/L		108	75 - 125
Hexane	50.0	50.41		ug/L		101	72 - 125
Iodomethane	50.0	51.27		ug/L		103	75 - 125
Isobutanol	1240	1311		ug/L		106	60 - 140
Methacrylonitrile	500	531.0		ug/L		106	70 - 130
Methyl methacrylate	100	105.2		ug/L		105	70 - 130
Methyl tert-butyl ether	50.0	53.22		ug/L		106	65 - 135
Methylene Chloride	50.0	48.88		ug/L		98	71 - 125
Propionitrile	500	515.2		ug/L		103	70 - 130
Propylbenzene	50.0	53.28		ug/L		107	75 - 125
Styrene	50.0	55.26		ug/L		111	75 - 125
Tetrachloroethene	50.0	52.52		ug/L		105	71 - 125
Tetrahydrofuran	100	109.8		ug/L		110	75 - 125
Toluene	50.0	54.24		ug/L		108	75 - 130
trans-1,2-Dichloroethene	50.0	51.80		ug/L		104	75 - 125
trans-1,3-Dichloropropene	50.0	54.65		ug/L		109	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.55		ug/L		101	70 - 130
Trichloroethene	50.0	54.14		ug/L		108	75 - 135
Trichlorofluoromethane	50.0	48.74		ug/L		97	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160029/1011**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	245.3		ug/L		98	60 - 140
Vinyl chloride	50.0	50.97		ug/L		102	60 - 140
Xylenes, Total	100	109.9		ug/L		110	75 - 125
m,p-Xylenes	0.0500	0.05493		mg/L		110	75 - 125
o-Xylene	0.0500	0.05497		mg/L		110	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: LCSD 860-160029/12**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	54.34		ug/L		109	72 - 125	1	25
1,1,1-Trichloroethane	50.0	52.35		ug/L		105	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	52.72		ug/L		105	74 - 125	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.05		ug/L		98	60 - 140	6	25
1,1,2-Trichloroethane	50.0	53.42		ug/L		107	75 - 130	0	25
1,1-Dichloroethane	50.0	53.50		ug/L		107	71 - 130	0	25
1,1-Dichloroethene	50.0	52.11		ug/L		104	50 - 150	1	25
1,2,3-Trichloropropane	50.0	52.84		ug/L		106	75 - 125	0	25
1,2,4-Trimethylbenzene	50.0	57.11		ug/L		114	75 - 125	5	25
1,2-Dibromo-3-Chloropropane	50.0	56.89		ug/L		114	59 - 125	8	25
1,2-Dibromoethane	50.0	53.51		ug/L		107	73 - 125	0	25
1,2-Dichloroethane	50.0	50.99		ug/L		102	72 - 130	2	25
1,2-Dichloropropane	50.0	52.93		ug/L		106	74 - 125	0	25
1,3,5-Trimethylbenzene	50.0	55.38		ug/L		111	60 - 140	5	25
1,3-Butadiene	50.0	49.46		ug/L		99	60 - 150	2	25
2,2,4-Trimethylpentane	50.0	49.40		ug/L		99	70 - 130	2	25
2-Butanone (MEK)	250	265.2		ug/L		106	60 - 140	1	25
2-Hexanone (MBK)	250	271.8		ug/L		109	60 - 140	0	25
2-Propanol	500	490.6		ug/L		98	70 - 120	1	25
3-Chloropropene (Allyl Chloride)	50.0	54.97		ug/L		110	70 - 130	14	25
4-Methyl-2-pentanone	250	261.6		ug/L		105	60 - 140	2	25
Acetone	250	269.7		ug/L		108	60 - 140	2	25
Acetonitrile	500	481.3		ug/L		96	60 - 140	2	25
Acrolein	250	258.2		ug/L		103	60 - 140	3	25
Acrylonitrile	500	507.3		ug/L		101	60 - 140	1	25
alpha-Chlorotoluene	50.0	56.47		ug/L		113	75 - 125	1	25
Benzene	50.0	52.83		ug/L		106	75 - 125	1	25
Bromodichloromethane	50.0	53.28		ug/L		107	75 - 125	1	25
Bromoform	50.0	54.02		ug/L		108	70 - 130	0	25
Bromomethane	50.0	53.80		ug/L		108	60 - 140	0	25
Carbon disulfide	50.0	52.63		ug/L		105	60 - 140	1	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160029/12**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	52.67		ug/L		105	70 - 125	1	25
Chlorobenzene	50.0	53.53		ug/L		107	82 - 135	1	25
Chlorodibromomethane	50.0	53.01		ug/L		106	73 - 125	1	25
Chloroethane	50.0	54.07		ug/L		108	60 - 140	4	25
Chloroform	50.0	51.71		ug/L		103	70 - 121	0	25
Chloromethane	50.0	53.03		ug/L		106	60 - 140	3	25
Chloroprene	50.0	53.93		ug/L		108	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	53.25		ug/L		106	75 - 125	0	25
cis-1,3-Dichloropropene	50.0	52.97		ug/L		106	74 - 125	0	25
Cumene (isopropylbenzene)	50.0	55.31		ug/L		111	75 - 125	1	25
Cyclohexane	50.0	49.08		ug/L		98	70 - 130	3	25
Dibromomethane	50.0	51.58		ug/L		103	69 - 127	1	25
Dichlorodifluoromethane	50.0	50.27		ug/L		101	50 - 150	1	25
Ethyl methacrylate	50.0	55.92		ug/L		112	70 - 130	2	25
Ethylbenzene	50.0	54.66		ug/L		109	75 - 125	1	25
Hexane	50.0	47.12		ug/L		94	72 - 125	7	25
Iodomethane	50.0	51.62		ug/L		103	75 - 125	1	25
Isobutanol	1240	1318		ug/L		106	60 - 140	0	25
Methacrylonitrile	500	523.6		ug/L		105	70 - 130	1	25
Methyl methacrylate	100	105.7		ug/L		106	70 - 130	1	25
Methyl tert-butyl ether	50.0	52.43		ug/L		105	65 - 135	1	25
Methylene Chloride	50.0	48.34		ug/L		97	71 - 125	1	25
Propionitrile	500	522.9		ug/L		105	70 - 130	1	25
Propylbenzene	50.0	55.39		ug/L		111	75 - 125	4	25
Styrene	50.0	55.93		ug/L		112	75 - 125	1	25
Tetrachloroethene	50.0	52.37		ug/L		105	71 - 125	0	25
Tetrahydrofuran	100	108.0		ug/L		108	75 - 125	2	25
Toluene	50.0	53.88		ug/L		108	75 - 130	1	25
trans-1,2-Dichloroethene	50.0	53.59		ug/L		107	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	55.09		ug/L		110	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	53.22		ug/L		106	70 - 130	5	25
Trichloroethene	50.0	52.94		ug/L		106	75 - 135	2	25
Trichlorofluoromethane	50.0	50.02		ug/L		100	60 - 140	3	25
Vinyl acetate	250	246.3		ug/L		99	60 - 140	0	25
Vinyl chloride	50.0	52.56		ug/L		105	60 - 140	3	25
Xylenes, Total	100	110.2		ug/L		110	75 - 125	0	25
m,p-Xylenes	0.0500	0.05489		mg/L		110	75 - 125	0	25
o-Xylene	0.0500	0.05530		mg/L		111	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	100		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73924-1 MS**  
**Matrix: Water**  
**Analysis Batch: 160029**

**Client Sample ID: HMW-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	53.31		ug/L		107	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	53.97		ug/L		108	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	51.64		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	55.28		ug/L		111	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	52.41		ug/L		105	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	52.92		ug/L		106	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	53.44		ug/L		107	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	50.87		ug/L		102	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	54.82		ug/L		110	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	55.39		ug/L		111	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	52.20		ug/L		104	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	50.40		ug/L		101	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	52.31		ug/L		105	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	53.00		ug/L		106	70 - 125
1,3-Butadiene	<0.568	U	50.0	53.05		ug/L		106	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	53.33		ug/L		107	70 - 130
2-Butanone (MEK)	<8.28	U	250	266.7		ug/L		107	60 - 140
2-Hexanone (MBK)	<7.45	U	250	262.6		ug/L		105	60 - 140
2-Propanol	<5.23	U	500	495.6		ug/L		99	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	58.16		ug/L		116	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	260.5		ug/L		104	60 - 140
Acetone	<3.07	U	250	261.0		ug/L		104	60 - 140
Acetonitrile	<14.6	U	500	487.6		ug/L		98	60 - 140
Acrolein	<11.1	U	250	252.1		ug/L		101	50 - 150
Acrylonitrile	<14.3	U	500	511.7		ug/L		102	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	59.16		ug/L		118	70 - 130
Benzene	<0.460	U	50.0	52.98		ug/L		106	66 - 142
Bromodichloromethane	<0.552	U	50.0	53.21		ug/L		106	75 - 125
Bromoform	<0.633	U	50.0	53.80		ug/L		108	75 - 125
Bromomethane	<1.42	U	50.0	52.08		ug/L		104	60 - 140
Carbon disulfide	<1.65	U	50.0	53.81		ug/L		108	60 - 140
Carbon tetrachloride	<0.896	U	50.0	53.94		ug/L		108	62 - 125
Chlorobenzene	<0.455	U	50.0	52.42		ug/L		105	60 - 133
Chlorodibromomethane	<0.547	U	50.0	52.97		ug/L		106	73 - 125
Chloroethane	<1.98	U	50.0	52.75		ug/L		105	60 - 140
Chloroform	<0.464	U	50.0	51.77		ug/L		104	70 - 130
Chloromethane	<2.04	U	50.0	52.57		ug/L		105	60 - 140
Chloroprene	<0.598	U	50.0	54.96		ug/L		110	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	54.35		ug/L		109	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	52.87		ug/L		106	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	55.15		ug/L		110	75 - 125
Cyclohexane	<1.29	U	50.0	53.72		ug/L		107	70 - 130
Dibromomethane	<0.357	U	50.0	51.79		ug/L		104	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	55.53		ug/L		111	70 - 130
Ethyl methacrylate	<1.12	U	50.0	55.03		ug/L		110	70 - 130
Ethylbenzene	<0.385	U	50.0	53.70		ug/L		107	75 - 125
Hexane	<0.517	U	50.0	53.84		ug/L		108	72 - 125
Iodomethane	<6.52	U	50.0	54.05		ug/L		108	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-73924-1 MS**

**Matrix: Water**

**Analysis Batch: 160029**

**Client Sample ID: HMW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Isobutanol	<17.1	U	1240	1327		ug/L		107	60 - 140
Methacrylonitrile	<2.72	U	500	518.3		ug/L		104	70 - 130
Methyl methacrylate	<2.25	U	100	105.4		ug/L		105	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	52.50		ug/L		105	65 - 135
Methylene Chloride	<1.73	U	50.0	49.23		ug/L		98	75 - 125
Propionitrile	<3.34	U	500	517.9		ug/L		104	70 - 130
Propylbenzene	<0.429	U	50.0	54.05		ug/L		108	75 - 125
Styrene	<0.619	U	50.0	54.64		ug/L		109	75 - 125
Tetrachloroethene	<0.655	U	50.0	52.20		ug/L		104	71 - 125
Tetrahydrofuran	<1.83	U	100	105.3		ug/L		105	75 - 125
Toluene	<0.475	U	50.0	52.09		ug/L		104	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	52.71		ug/L		105	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	54.19		ug/L		108	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	52.34		ug/L		105	70 - 130
Trichloroethene	<1.50	U	50.0	53.81		ug/L		108	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	54.16		ug/L		108	60 - 140
Vinyl acetate	<2.14	U	250	265.8		ug/L		106	60 - 140
Vinyl chloride	<0.428	U	50.0	52.51		ug/L		105	60 - 140
Xylenes, Total	<1.24	U	100	109.0		ug/L		109	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05451		mg/L		109	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05453		mg/L		109	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-159586/1-A**

**Matrix: Water**

**Analysis Batch: 159684**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/10/24 10:20	05/10/24 18:51	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/10/24 10:20	05/10/24 18:51	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/10/24 10:20	05/10/24 18:51	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/10/24 10:20	05/10/24 18:51	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/10/24 10:20	05/10/24 18:51	1
Benzyl alcohol	1.398		1.14	0.600	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/10/24 18:51	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/10/24 10:20	05/10/24 18:51	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/10/24 10:20	05/10/24 18:51	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/10/24 10:20	05/10/24 18:51	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/10/24 10:20	05/10/24 18:51	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/10/24 10:20	05/10/24 18:51	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/10/24 10:20	05/10/24 18:51	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/10/24 10:20	05/10/24 18:51	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/10/24 10:20	05/10/24 18:51	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	<1.44	U	2.86	1.44	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/10/24 10:20	05/10/24 18:51	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/10/24 10:20	05/10/24 18:51	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/10/24 10:20	05/10/24 18:51	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/10/24 10:20	05/10/24 18:51	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/10/24 10:20	05/10/24 18:51	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/10/24 10:20	05/10/24 18:51	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/10/24 10:20	05/10/24 18:51	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/10/24 10:20	05/10/24 18:51	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/10/24 10:20	05/10/24 18:51	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/10/24 10:20	05/10/24 18:51	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/10/24 10:20	05/10/24 18:51	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/10/24 10:20	05/10/24 18:51	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/10/24 10:20	05/10/24 18:51	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/10/24 10:20	05/10/24 18:51	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/10/24 10:20	05/10/24 18:51	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/10/24 10:20	05/10/24 18:51	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/10/24 10:20	05/10/24 18:51	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/10/24 10:20	05/10/24 18:51	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/10/24 10:20	05/10/24 18:51	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/10/24 10:20	05/10/24 18:51	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/10/24 10:20	05/10/24 18:51	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/10/24 10:20	05/10/24 18:51	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/10/24 10:20	05/10/24 18:51	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/10/24 10:20	05/10/24 18:51	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/10/24 10:20	05/10/24 18:51	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/10/24 10:20	05/10/24 18:51	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/10/24 10:20	05/10/24 18:51	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/10/24 10:20	05/10/24 18:51	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/10/24 10:20	05/10/24 18:51	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/10/24 10:20	05/10/24 18:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/10/24 10:20	05/10/24 18:51	1
2-Fluorobiphenyl	122		43 - 130	05/10/24 10:20	05/10/24 18:51	1
2-Fluorophenol (Surr)	77		19 - 120	05/10/24 10:20	05/10/24 18:51	1
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133	05/10/24 10:20	05/10/24 18:51	1
Phenol-d5 (Surr)	50		8 - 124	05/10/24 10:20	05/10/24 18:51	1
p-Terphenyl-d14	111		47 - 130	05/10/24 10:20	05/10/24 18:51	1

**Lab Sample ID: MB 860-159586/1-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/10/24 10:20	05/13/24 23:29	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/10/24 10:20	05/13/24 23:29	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/10/24 10:20	05/13/24 23:29	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/10/24 10:20	05/13/24 23:29	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/10/24 10:20	05/13/24 23:29	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/10/24 10:20	05/13/24 23:29	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/10/24 10:20	05/13/24 23:29	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/10/24 10:20	05/13/24 23:29	1

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.86	1.665		ug/L		58	32 - 130
1,3-Dichlorobenzene	2.86	1.534		ug/L		54	26 - 130
1,4-Dichlorobenzene	2.86	1.596		ug/L		56	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.594	J	ug/L		91	10 - 173
2,4,5-Trichlorophenol	2.86	3.719		ug/L		130	35 - 130
2,4,6-Trichlorophenol	2.86	3.351		ug/L		117	52 - 129
2,4-Dichlorophenol	2.86	2.943		ug/L		103	53 - 122
2,4-Dimethylphenol	2.86	2.510		ug/L		88	42 - 120

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	1.133		ug/L		40	27 - 130
2,4-Dinitrophenol	2.86	2.576	J	ug/L		90	12 - 173
2,4-Dinitrotoluene	2.86	4.404	*+	ug/L		154	48 - 127
2,6-Dinitrotoluene	2.86	4.576	*+	ug/L		160	68 - 137
2-Chloronaphthalene	2.86	2.325		ug/L		81	10 - 130
2-Methylnaphthalene	2.86	2.260		ug/L		79	25 - 175
2-Methylphenol	2.86	2.511		ug/L		88	14 - 176
2-Nitroaniline	2.86	3.430		ug/L		120	59 - 130
2-Nitrophenol	2.86	4.232		ug/L		148	45 - 167
3 & 4 Methylphenol	2.86	2.085		ug/L		73	22 - 130
3-Nitroaniline	2.86	2.009		ug/L		70	30 - 130
4,6-Dinitro-2-methylphenol	2.86	3.032		ug/L		106	10 - 130
4-Bromophenyl phenyl ether	2.86	2.624		ug/L		92	65 - 120
4-Chloro-3-methylphenol	2.86	3.249		ug/L		114	41 - 128
4-Chloroaniline	2.86	1.660		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.424		ug/L		85	38 - 145
4-Nitroaniline	2.86	2.226		ug/L		78	42 - 125
Acenaphthene	2.86	2.434		ug/L		85	60 - 132
Acenaphthylene	2.86	2.669		ug/L		93	54 - 126
Aniline	2.86	1.292		ug/L		45	15 - 130
Anthracene	2.86	2.450		ug/L		86	43 - 135
Benzo[a]anthracene	2.86	3.143		ug/L		110	42 - 133
Benzo[a]pyrene	2.86	2.715		ug/L		95	32 - 148
Benzo[b]fluoranthene	2.86	3.586		ug/L		126	42 - 140
Benzo[g,h,i]perylene	2.86	2.821		ug/L		99	25 - 195
Benzo[k]fluoranthene	2.86	3.234		ug/L		113	25 - 146
Benzyl alcohol	2.86	3.602		ug/L		126	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.980		ug/L		104	49 - 165
Bis(2-chloroethyl)ether	2.86	2.642		ug/L		92	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	4.994	*+	ug/L		175	29 - 137
Butyl benzyl phthalate	2.86	4.853	*+	ug/L		170	28 - 130
Chrysene	2.86	2.695		ug/L		94	47 - 130
Dibenz(a,h)anthracene	2.86	2.945		ug/L		103	32 - 200
Dibenzofuran	2.86	2.640		ug/L		92	48 - 130
Diethyl phthalate	2.86	3.390		ug/L		119	53 - 120
Dimethyl phthalate	2.86	3.826	*+	ug/L		134	67 - 120
Di-n-butyl phthalate	2.86	3.728	*+	ug/L		130	8 - 120
Di-n-octyl phthalate	2.86	4.953		ug/L		173	19 - 200
Fluoranthene	2.86	2.673		ug/L		94	43 - 130
Fluorene	2.86	2.434		ug/L		85	70 - 130
Hexachlorobenzene	2.86	2.192		ug/L		77	8 - 142
Hexachlorobutadiene	2.86	1.382		ug/L		48	10 - 130
Hexachlorocyclopentadiene	2.86	1.514		ug/L		53	10 - 130
Hexachloroethane	2.86	1.639		ug/L		57	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	3.239		ug/L		113	29 - 151
Isophorone	2.86	3.718		ug/L		130	47 - 180
Naphthalene	2.86	2.331		ug/L		82	36 - 120
Nitrobenzene	2.86	3.810	*+	ug/L		133	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.919		ug/L		102	14 - 198

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiphenylamine	2.86	3.086		ug/L		108	40 - 127
Pentachlorophenol	2.86	3.975		ug/L		139	38 - 152
Phenanthrene	2.86	2.560		ug/L		90	65 - 120
Phenol	2.86	1.452	J	ug/L		51	17 - 120
Pyrene	2.86	2.808		ug/L		98	70 - 130
Pyridine	2.86	<1.44	U	ug/L		40	1 - 126
N-Nitro-o-toluidine	2.86	2.259		ug/L		79	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.893		ug/L		101	33 - 132
Acetophenone	2.86	2.569		ug/L		90	58 - 130
N-Nitrosopiperidine	2.86	3.630		ug/L		127	54 - 130
Pentachlorobenzene	2.86	1.883		ug/L		66	47 - 130
Diphenyl ether	2.86	2.504		ug/L		88	61 - 130
1,1'-Biphenyl	2.86	2.247		ug/L		79	52 - 130
4-Aminobiphenyl	2.86	1.814		ug/L		63	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.642		ug/L		57	52 - 130
1,3,5-Trinitrobenzene	2.86	5.122	*+	ug/L		179	42 - 130
1,3-Dinitrobenzene	2.86	4.587	*+	ug/L		161	54 - 130
1,4-Naphthoquinone	2.86	4.237	*+	ug/L		148	34 - 130
1-Naphthylamine	2.86	0.5008	J *-	ug/L		18	40 - 130
2,6-Dichlorophenol	2.86	3.087		ug/L		108	40 - 130
2-Acetylaminofluorene	2.86	7.517	*+	ug/L		263	50 - 150
2-Chlorophenol	2.86	2.818		ug/L		99	36 - 120
2-Naphthylamine	2.86	0.7266	*-	ug/L		25	30 - 130
2-Picoline	2.86	1.341		ug/L		47	22 - 130
2-Toluidine	2.86	1.404		ug/L		49	30 - 130
3,3'-Dichlorobenzidine	2.86	1.984		ug/L		69	20 - 150
3,3'-Dimethylbenzidine	2.86	0.3426	J *-	ug/L		12	30 - 130
3-Methylcholanthrene	2.86	2.480		ug/L		87	53 - 130
4-Nitroquinoline-1-oxide	2.86	4.728	*+	ug/L		165	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	3.320		ug/L		116	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	2.937	*+	ug/L		206	69 - 130
Aramite Peak 2	1.43	2.819	*+	ug/L		197	65 - 130
Diallate Peak 1	2.11	2.333		ug/L		110	69 - 130
Diallate Peak 2	0.743	0.8214		ug/L		111	67 - 130
Ethyl methanesulfonate	2.86	2.051		ug/L		72	54 - 130
Hexachloropropene	2.86	1.503		ug/L		53	37 - 130
Isosafrole Peak 1	0.457	0.3579	J	ug/L		78	54 - 130
Isosafrole Peak 2	2.40	2.071		ug/L		86	62 - 130
Methyl methanesulfonate	2.86	1.182		ug/L		41	30 - 130
N-Nitrosodiethylamine	2.86	2.431		ug/L		85	54 - 130
N-Nitrosodimethylamine	2.86	1.021		ug/L		36	28 - 126
N-Nitrosodi-n-butylamine	2.86	3.706		ug/L		130	58 - 130
N-Nitrosomethylethylamine	2.86	1.890		ug/L		66	45 - 130
N-Nitrosomorpholine	2.86	1.724		ug/L		60	37 - 130
N-Nitrosopyrrolidine	2.86	1.881		ug/L		66	47 - 130
p-Dimethylamino azobenzene	2.86	2.981		ug/L		104	61 - 130
Pentachloronitrobenzene	2.86	4.674	*+	ug/L		164	56 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenacetin	2.86	4.170	*+	ug/L		146	70 - 130
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120
Pronamide	2.86	4.258	*+	ug/L		149	70 - 130
Safrole, Total	2.86	3.083		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130
2-Fluorobiphenyl	124		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	199	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	110		47 - 130

**Lab Sample ID: LCS 860-159586/2-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylphenol	2.86	2.497		ug/L		87	14 - 176
3 & 4 Methylphenol	2.86	2.194		ug/L		77	22 - 130
Benzo[a]pyrene	2.86	2.803		ug/L		98	32 - 148
Bis(2-chloroethyl)ether	2.86	2.861		ug/L		100	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	3.351		ug/L		117	29 - 137
Phenanthrene	2.86	2.572		ug/L		90	65 - 120
Phenol	2.86	1.498	J	ug/L		52	17 - 120
Acetophenone	2.86	2.816		ug/L		99	58 - 130

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	7.744		ug/L		136	45 - 138
Dinoseb	5.71	9.305	*+	ug/L		163	49 - 130
Disulfoton	5.71	2.388		ug/L		42	38 - 134
Ethyl Parathion	5.71	10.01	*+	ug/L		175	25 - 173
Famphur	2.86	3.957		ug/L		138	43 - 142
Methapyrilene	5.71	8.801		ug/L		154	70 - 183
Methyl parathion	5.71	9.586	*+	ug/L		168	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.638		ug/L		92	43 - 130
Phorate	5.71	5.870		ug/L		103	37 - 140
Sulfotepp	5.71	6.014		ug/L		105	28 - 158
Thionazin	2.86	3.333		ug/L		117	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	138	S1+	35 - 130
2-Fluorobiphenyl	111		43 - 130
2-Fluorophenol (Surr)	80		19 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-159586/4-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	184	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	105		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,2,4-Trichlorobenzene	2.86	1.587		ug/L		56	32 - 130	9	30	
1,2-Dichlorobenzene	2.86	1.517		ug/L		53	32 - 130	9	30	
1,3-Dichlorobenzene	2.86	1.417		ug/L		50	26 - 130	8	30	
1,4-Dichlorobenzene	2.86	1.473		ug/L		52	28 - 130	8	30	
2,2'-oxybis[1-chloropropane]	2.86	2.385	J	ug/L		83	10 - 173	8	30	
2,4,5-Trichlorophenol	2.86	3.263		ug/L		114	35 - 130	13	30	
2,4,6-Trichlorophenol	2.86	2.890		ug/L		101	52 - 129	15	30	
2,4-Dichlorophenol	2.86	2.617		ug/L		92	53 - 122	12	30	
2,4-Dimethylphenol	2.86	2.152		ug/L		75	42 - 120	15	30	
1,4-Dioxane	2.86	1.043		ug/L		36	27 - 130	8	30	
2,4-Dinitrophenol	2.86	1.967	J	ug/L		69	12 - 173	27	30	
2,4-Dinitrotoluene	2.86	3.750	*+	ug/L		131	48 - 127	16	30	
2,6-Dinitrotoluene	2.86	4.144	*+	ug/L		145	68 - 137	10	30	
2-Chloronaphthalene	2.86	2.120		ug/L		74	10 - 130	9	30	
2-Methylnaphthalene	2.86	2.024		ug/L		71	25 - 175	11	30	
2-Methylphenol	2.86	2.297		ug/L		80	14 - 176	9	30	
2-Nitroaniline	2.86	3.095		ug/L		108	59 - 130	10	30	
2-Nitrophenol	2.86	3.820		ug/L		134	45 - 167	10	30	
3 & 4 Methylphenol	2.86	1.940		ug/L		68	22 - 130	7	30	
3-Nitroaniline	2.86	1.893		ug/L		66	30 - 130	6	30	
4,6-Dinitro-2-methylphenol	2.86	2.663		ug/L		93	10 - 130	13	30	
4-Bromophenyl phenyl ether	2.86	2.176		ug/L		76	65 - 120	19	30	
4-Chloro-3-methylphenol	2.86	2.920		ug/L		102	41 - 128	11	30	
4-Chloroaniline	2.86	1.606		ug/L		56	30 - 130	3	30	
4-Chlorophenyl phenyl ether	2.86	2.060		ug/L		72	38 - 145	16	30	
4-Nitroaniline	2.86	2.076		ug/L		73	42 - 125	7	30	
Acenaphthene	2.86	2.126		ug/L		74	60 - 132	14	30	
Acenaphthylene	2.86	2.418		ug/L		85	54 - 126	10	30	
Aniline	2.86	1.308		ug/L		46	15 - 130	1	30	
Anthracene	2.86	2.174		ug/L		76	43 - 135	12	30	
Benzo[a]anthracene	2.86	2.970		ug/L		104	42 - 133	6	30	
Benzo[a]pyrene	2.86	2.406		ug/L		84	32 - 148	12	30	
Benzo[b]fluoranthene	2.86	3.312		ug/L		116	42 - 140	8	30	
Benzo[g,h,i]perylene	2.86	2.495		ug/L		87	25 - 195	12	30	
Benzo[k]fluoranthene	2.86	2.987		ug/L		105	25 - 146	8	30	
Benzyl alcohol	2.86	3.542		ug/L		124	57 - 130	2	30	
Bis(2-chloroethoxy)methane	2.86	2.619		ug/L		92	49 - 165	13	30	
Bis(2-chloroethyl)ether	2.86	2.341		ug/L		82	43 - 126	12	30	
Bis(2-ethylhexyl) phthalate	2.86	4.487	*+	ug/L		157	29 - 137	11	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Butyl benzyl phthalate	2.86	4.374	*+	ug/L		153	28 - 130	10	30	
Chrysene	2.86	2.419		ug/L		85	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	2.569		ug/L		90	32 - 200	14	30	
Dibenzofuran	2.86	2.249		ug/L		79	48 - 130	16	30	
Diethyl phthalate	2.86	3.112		ug/L		109	53 - 120	9	30	
Dimethyl phthalate	2.86	3.338		ug/L		117	67 - 120	14	30	
Di-n-butyl phthalate	2.86	3.309		ug/L		116	8 - 120	12	30	
Di-n-octyl phthalate	2.86	4.445		ug/L		156	19 - 200	11	30	
Fluoranthene	2.86	2.407		ug/L		84	43 - 130	10	30	
Fluorene	2.86	2.117		ug/L		74	70 - 130	14	30	
Hexachlorobenzene	2.86	1.943		ug/L		68	8 - 142	12	30	
Hexachlorobutadiene	2.86	1.167		ug/L		41	10 - 130	17	30	
Hexachlorocyclopentadiene	2.86	1.269		ug/L		44	10 - 130	18	30	
Hexachloroethane	2.86	1.470		ug/L		51	10 - 130	11	30	
Indeno[1,2,3-cd]pyrene	2.86	2.878		ug/L		101	29 - 151	12	30	
Isophorone	2.86	3.378		ug/L		118	47 - 180	10	30	
Naphthalene	2.86	2.157		ug/L		75	36 - 120	8	30	
Nitrobenzene	2.86	3.551		ug/L		124	54 - 130	7	30	
N-Nitrosodi-n-propylamine	2.86	2.599		ug/L		91	14 - 198	12	30	
N-Nitrosodiphenylamine	2.86	2.735		ug/L		96	40 - 127	12	30	
Pentachlorophenol	2.86	3.227		ug/L		113	38 - 152	21	30	
Phenanthrene	2.86	2.195		ug/L		77	65 - 120	15	30	
Phenol	2.86	1.256	J	ug/L		44	17 - 120	15	30	
Pyrene	2.86	2.491		ug/L		87	70 - 130	12	30	
Pyridine	2.86	<1.44	U	ug/L		37	1 - 126	9	30	
N-Nitro-o-toluidine	2.86	2.104		ug/L		74	47 - 130	7	30	
2,3,4,6-Tetrachlorophenol	2.86	2.592		ug/L		91	33 - 132	11	30	
Acetophenone	2.86	2.330		ug/L		82	58 - 130	10	30	
N-Nitrosopiperidine	2.86	3.085		ug/L		108	54 - 130	16	30	
Pentachlorobenzene	2.86	1.541		ug/L		54	47 - 130	20	30	
Diphenyl ether	2.86	2.167		ug/L		76	61 - 130	14	30	
1,1'-Biphenyl	2.86	1.931		ug/L		68	52 - 130	15	30	
4-Aminobiphenyl	2.86	1.767		ug/L		62	35 - 130	3	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.476		ug/L		52	52 - 130	11	30	
1,3,5-Trinitrobenzene	2.86	4.273	*+	ug/L		150	42 - 130	18	30	
1,3-Dinitrobenzene	2.86	4.210	*+	ug/L		147	54 - 130	9	30	
1,4-Naphthoquinone	2.86	3.539		ug/L		124	34 - 130	18	30	
1-Naphthylamine	2.86	0.5143	J *-	ug/L		18	40 - 130	3	30	
2,6-Dichlorophenol	2.86	2.627		ug/L		92	40 - 130	16	30	
2-Acetylaminofluorene	2.86	7.003	*+	ug/L		245	50 - 150	7	30	
2-Chlorophenol	2.86	2.533		ug/L		89	36 - 120	11	30	
2-Naphthylamine	2.86	0.6411	*-	ug/L		22	30 - 130	12	30	
2-Picoline	2.86	1.350		ug/L		47	22 - 130	1	30	
2-Toluidine	2.86	1.421		ug/L		50	30 - 130	1	30	
3,3'-Dichlorobenzidine	2.86	1.903		ug/L		67	20 - 150	4	30	
3,3'-Dimethylbenzidine	2.86	0.3987	J *-	ug/L		14	30 - 130	15	30	
3-Methylcholanthrene	2.86	2.235		ug/L		78	53 - 130	10	30	
4-Nitroquinoline-1-oxide	2.86	4.617	*+	ug/L		162	39 - 130	2	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.123		ug/L		109	63 - 130	6	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30
Aramite Peak 1	1.43	2.458	*+	ug/L		172	69 - 130	18	30
Aramite Peak 2	1.43	2.475	*+	ug/L		173	65 - 130	13	30
Diallate Peak 1	2.11	2.053		ug/L		97	69 - 130	13	30
Diallate Peak 2	0.743	0.7174		ug/L		97	67 - 130	14	30
Ethyl methanesulfonate	2.86	1.834		ug/L		64	54 - 130	11	30
Hexachloropropene	2.86	1.241		ug/L		43	37 - 130	19	30
Isosafrole Peak 1	0.457	0.3203	J	ug/L		70	54 - 130	11	30
Isosafrole Peak 2	2.40	1.862		ug/L		78	62 - 130	11	30
Methyl methanesulfonate	2.86	1.099		ug/L		38	30 - 130	7	30
N-Nitrosodiethylamine	2.86	2.392		ug/L		84	54 - 130	2	30
N-Nitrosodimethylamine	2.86	0.9307		ug/L		33	28 - 126	9	30
N-Nitrosodi-n-butylamine	2.86	3.272		ug/L		115	58 - 130	12	30
N-Nitrosomethylethylamine	2.86	1.755		ug/L		61	45 - 130	7	30
N-Nitrosomorpholine	2.86	1.581		ug/L		55	37 - 130	9	30
N-Nitrosopyrrolidine	2.86	1.861		ug/L		65	47 - 130	1	30
p-Dimethylamino azobenzene	2.86	2.705		ug/L		95	61 - 130	10	30
Pentachloronitrobenzene	2.86	3.872	*+	ug/L		136	56 - 130	19	30
Phenacetin	2.86	3.511		ug/L		123	70 - 130	17	30
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120	NC	30
Pronamide	2.86	3.755	*+	ug/L		131	70 - 130	13	30
Safrole, Total	2.86	2.766		ug/L		97	70 - 130	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130
2-Fluorobiphenyl	107		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14	104		47 - 130

**Lab Sample ID: LCSD 860-159586/3-A**  
**Matrix: Water**  
**Analysis Batch: 159967**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylphenol	2.86	2.366		ug/L		83	14 - 176	5	30
3 & 4 Methylphenol	2.86	2.105		ug/L		74	22 - 130	4	30
Benzo[a]pyrene	2.86	2.544		ug/L		89	32 - 148	10	30
Bis(2-chloroethyl)ether	2.86	2.752		ug/L		96	43 - 126	4	30
Bis(2-ethylhexyl) phthalate	2.86	3.132		ug/L		110	29 - 137	7	30
Phenanthrene	2.86	2.127		ug/L		74	65 - 120	19	30
Phenol	2.86	1.494	J	ug/L		52	17 - 120	0	30
Acetophenone	2.86	2.732		ug/L		96	58 - 130	3	30



# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-159586/5-A**  
**Matrix: Water**  
**Analysis Batch: 159684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 159586**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.633		ug/L		134	45 - 138	1	30	
Dinoseb	5.71	9.559	*+	ug/L		167	49 - 130	3	30	
Disulfoton	5.71	3.580	*1	ug/L		63	38 - 134	40	30	
Ethyl Parathion	5.71	11.60	*+	ug/L		203	25 - 173	15	30	
Famphur	2.86	4.439	*+	ug/L		155	43 - 142	11	30	
Methapyrilene	5.71	9.267		ug/L		162	70 - 183	5	30	
Methyl parathion	5.71	10.47	*+	ug/L		183	26 - 159	9	30	
o,o',o"-Triethylphosphorothioate	2.86	2.726		ug/L		95	43 - 130	3	30	
Phorate	5.71	6.954		ug/L		122	37 - 140	17	30	
Sulfotepp	5.71	7.134		ug/L		125	28 - 158	17	30	
Thionazin	2.86	3.290		ug/L		115	50 - 150	1	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130
2-Fluorobiphenyl	117		43 - 130
2-Fluorophenol (Surr)	66		19 - 120
Nitrobenzene-d5 (Surr)	176	S1+	37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14	113		47 - 130

**Lab Sample ID: MB 860-160152/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 13:46	05/15/24 13:38		1	
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 13:46	05/15/24 13:38		1	
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/15/24 13:38		1	
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 13:46	05/15/24 13:38		1	
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 13:46	05/15/24 13:38		1	
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 13:46	05/15/24 13:38		1	
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 13:46	05/15/24 13:38		1	
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 13:46	05/15/24 13:38		1	
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 13:46	05/15/24 13:38		1	
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/15/24 13:38		1	
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 13:46	05/15/24 13:38		1	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160152/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/15/24 13:38	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 13:46	05/15/24 13:38	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 13:46	05/15/24 13:38	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/15/24 13:38	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 13:46	05/15/24 13:38	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 13:46	05/15/24 13:38	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 13:46	05/15/24 13:38	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/14/24 13:46	05/15/24 13:38	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 13:46	05/15/24 13:38	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 13:46	05/15/24 13:38	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 13:46	05/15/24 13:38	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 13:46	05/15/24 13:38	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 13:46	05/15/24 13:38	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 13:46	05/15/24 13:38	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 13:46	05/15/24 13:38	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 13:46	05/15/24 13:38	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 13:46	05/15/24 13:38	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 13:46	05/15/24 13:38	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 13:46	05/15/24 13:38	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/15/24 13:38	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 13:46	05/15/24 13:38	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 13:46	05/15/24 13:38	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 13:46	05/15/24 13:38	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 13:46	05/15/24 13:38	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 13:46	05/15/24 13:38	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 13:46	05/15/24 13:38	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 13:46	05/15/24 13:38	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 13:46	05/15/24 13:38	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 13:46	05/15/24 13:38	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 13:46	05/15/24 13:38	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/15/24 13:38	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 13:46	05/15/24 13:38	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 13:46	05/15/24 13:38	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 13:46	05/15/24 13:38	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 13:46	05/15/24 13:38	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 13:46	05/15/24 13:38	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 13:46	05/15/24 13:38	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 13:46	05/15/24 13:38	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 13:46	05/15/24 13:38	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 13:46	05/15/24 13:38	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 13:46	05/15/24 13:38	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 13:46	05/15/24 13:38	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 13:46	05/15/24 13:38	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 13:46	05/15/24 13:38	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 13:46	05/15/24 13:38	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160152/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 13:46	05/15/24 13:38	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 13:46	05/15/24 13:38	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 13:46	05/15/24 13:38	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 13:46	05/15/24 13:38	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 13:46	05/15/24 13:38	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 13:46	05/15/24 13:38	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 13:46	05/15/24 13:38	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 13:46	05/15/24 13:38	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 13:46	05/15/24 13:38	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 13:46	05/15/24 13:38	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 13:46	05/15/24 13:38	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 13:46	05/15/24 13:38	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 13:46	05/15/24 13:38	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 13:46	05/15/24 13:38	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 13:46	05/15/24 13:38	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/15/24 13:38	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 13:46	05/15/24 13:38	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 13:46	05/15/24 13:38	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 13:46	05/15/24 13:38	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 13:46	05/15/24 13:38	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/15/24 13:38	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 13:46	05/15/24 13:38	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 13:46	05/15/24 13:38	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 13:46	05/15/24 13:38	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 13:46	05/15/24 13:38	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 13:46	05/15/24 13:38	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 13:46	05/15/24 13:38	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 13:46	05/15/24 13:38	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 13:46	05/15/24 13:38	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 13:46	05/15/24 13:38	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/15/24 13:38	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 13:46	05/15/24 13:38	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 13:46	05/15/24 13:38	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 13:46	05/15/24 13:38	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 13:46	05/15/24 13:38	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 13:46	05/15/24 13:38	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 13:46	05/15/24 13:38	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 13:46	05/15/24 13:38	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 13:46	05/15/24 13:38	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/15/24 13:38	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/15/24 13:38	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 13:46	05/15/24 13:38	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 13:46	05/15/24 13:38	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/14/24 13:46	05/15/24 13:38	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160152/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 13:46	05/15/24 13:38	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 13:46	05/15/24 13:38	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 13:46	05/15/24 13:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	166	S1+	35 - 130	05/14/24 13:46	05/15/24 13:38	1
2-Fluorobiphenyl	141	S1+	43 - 130	05/14/24 13:46	05/15/24 13:38	1
2-Fluorophenol (Surr)	61		19 - 120	05/14/24 13:46	05/15/24 13:38	1
Nitrobenzene-d5 (Surr)	183	S1+	37 - 133	05/14/24 13:46	05/15/24 13:38	1
Phenol-d5 (Surr)	27		8 - 124	05/14/24 13:46	05/15/24 13:38	1
p-Terphenyl-d14	132	S1+	47 - 130	05/14/24 13:46	05/15/24 13:38	1

**Lab Sample ID: LCS 860-160152/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	2.532		ug/L		89	32 - 130
1,2-Dichlorobenzene	2.86	2.358		ug/L		83	32 - 130
1,3-Dichlorobenzene	2.86	2.277		ug/L		80	26 - 130
1,4-Dichlorobenzene	2.86	2.328		ug/L		81	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	3.051	I	ug/L		107	10 - 173
2,4,5-Trichlorophenol	2.86	4.181	*+	ug/L		146	35 - 130
2,4,6-Trichlorophenol	2.86	3.685		ug/L		129	52 - 129
2,4-Dichlorophenol	2.86	3.203		ug/L		112	53 - 122
2,4-Dimethylphenol	2.86	2.158		ug/L		76	42 - 120
1,4-Dioxane	2.86	1.161		ug/L		41	27 - 130
2,4-Dinitrophenol	2.86	2.824	J	ug/L		99	12 - 173
2,4-Dinitrotoluene	2.86	4.795	*+	ug/L		168	48 - 127
2,6-Dinitrotoluene	2.86	4.946	*+	ug/L		173	68 - 137
2-Chloronaphthalene	2.86	3.149		ug/L		110	10 - 130
2-Methylnaphthalene	2.86	2.824		ug/L		99	25 - 175
2-Methylphenol	2.86	1.799		ug/L		63	14 - 176
2-Nitroaniline	2.86	4.205	*+	ug/L		147	59 - 130
2-Nitrophenol	2.86	4.977	*+	ug/L		174	45 - 167
3 & 4 Methylphenol	2.86	1.606		ug/L		56	22 - 130
3-Nitroaniline	2.86	2.246		ug/L		79	30 - 130
4,6-Dinitro-2-methylphenol	2.86	3.192		ug/L		112	10 - 130
4-Bromophenyl phenyl ether	2.86	3.534	*+	ug/L		124	65 - 120
4-Chloro-3-methylphenol	2.86	3.361		ug/L		118	41 - 128
4-Chloroaniline	2.86	1.834		ug/L		64	30 - 130
4-Chlorophenyl phenyl ether	2.86	3.555		ug/L		124	38 - 145
4-Nitroaniline	2.86	2.608		ug/L		91	42 - 125
Acenaphthene	2.86	2.381		ug/L		83	60 - 132
Acenaphthylene	2.86	2.325		ug/L		81	54 - 126
Aniline	2.86	1.273		ug/L		45	15 - 130
Anthracene	2.86	2.696		ug/L		94	43 - 135
Benzo[a]anthracene	2.86	3.826	*+	ug/L		134	42 - 133

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160152/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	2.86	3.308		ug/L		116	32 - 148
Benzo[b]fluoranthene	2.86	4.387	*+	ug/L		154	42 - 140
Benzo[g,h,i]perylene	2.86	3.483		ug/L		122	25 - 195
Benzo[k]fluoranthene	2.86	3.590		ug/L		126	25 - 146
Benzyl alcohol	2.86	2.851		ug/L		100	57 - 130
Bis(2-chloroethoxy)methane	2.86	3.471		ug/L		121	49 - 165
Bis(2-chloroethyl)ether	2.86	2.827		ug/L		99	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	4.958	*+	ug/L		174	29 - 137
Butyl benzyl phthalate	2.86	5.449	*+	ug/L		191	28 - 130
Chrysene	2.86	3.341		ug/L		117	47 - 130
Dibenz(a,h)anthracene	2.86	3.726		ug/L		130	32 - 200
Dibenzofuran	2.86	3.275		ug/L		115	48 - 130
Diethyl phthalate	2.86	3.922	*+	ug/L		137	53 - 120
Dimethyl phthalate	2.86	3.893	*+	ug/L		136	67 - 120
Di-n-butyl phthalate	2.86	4.204	*+	ug/L		147	8 - 120
Di-n-octyl phthalate	2.86	5.299		ug/L		185	19 - 200
Fluoranthene	2.86	3.497		ug/L		122	43 - 130
Fluorene	2.86	3.229		ug/L		113	70 - 130
Hexachlorobenzene	2.86	3.050		ug/L		107	8 - 142
Hexachlorobutadiene	2.86	1.971		ug/L		69	10 - 130
Hexachlorocyclopentadiene	2.86	2.270		ug/L		79	10 - 130
Hexachloroethane	2.86	1.973		ug/L		69	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	4.063		ug/L		142	29 - 151
Isophorone	2.86	3.898		ug/L		136	47 - 180
Naphthalene	2.86	3.281		ug/L		115	36 - 120
Nitrobenzene	2.86	3.978	*+	ug/L		139	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.702		ug/L		95	14 - 198
N-Nitrosodiphenylamine	2.86	2.283		ug/L		80	40 - 127
Pentachlorophenol	2.86	4.119		ug/L		144	38 - 152
Phenanthrene	2.86	3.225		ug/L		113	65 - 120
Phenol	2.86	1.063	J	ug/L		37	17 - 120
Pyrene	2.86	3.257		ug/L		114	70 - 130
Pyridine	2.86	<1.44	U	ug/L		35	1 - 126
N-Nitro-o-toluidine	2.86	2.370		ug/L		83	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.447		ug/L		121	33 - 132
Acetophenone	2.86	2.699		ug/L		94	58 - 130
N-Nitrosopiperidine	2.86	3.704		ug/L		130	54 - 130
Pentachlorobenzene	2.86	2.880		ug/L		101	47 - 130
Diphenyl ether	2.86	3.246		ug/L		114	61 - 130
1,1'-Biphenyl	2.86	2.973		ug/L		104	52 - 130
4-Aminobiphenyl	2.86	1.914		ug/L		67	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	2.528		ug/L		88	52 - 130
1,3,5-Trinitrobenzene	2.86	5.864	*+	ug/L		205	42 - 130
1,3-Dinitrobenzene	2.86	4.961	*+	ug/L		174	54 - 130
1,4-Naphthoquinone	2.86	3.800	*+	ug/L		133	34 - 130
1-Naphthylamine	2.86	0.6451	*-	ug/L		23	40 - 130
2,6-Dichlorophenol	2.86	3.262		ug/L		114	40 - 130
2-Acetylaminofluorene	2.86	8.159	*+	ug/L		286	50 - 150
2-Chlorophenol	2.86	3.023		ug/L		106	36 - 120

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160152/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Naphthylamine	2.86	0.7358	*-	ug/L		26	30 - 130
2-Picoline	2.86	1.569		ug/L		55	22 - 130
2-Toluidine	2.86	1.186		ug/L		42	30 - 130
3,3'-Dichlorobenzidine	2.86	2.039		ug/L		71	20 - 150
3,3'-Dimethylbenzidine	2.86	0.6046	*-	ug/L		21	30 - 130
3-Methylcholanthrene	2.86	3.373		ug/L		118	53 - 130
4-Nitroquinoline-1-oxide	2.86	5.685	*+	ug/L		199	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	3.995	*+	ug/L		140	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.065	*+	ug/L		215	69 - 130
Aramite Peak 2	1.43	3.166	*+	ug/L		222	65 - 130
Diallate Peak 1	2.11	1.904		ug/L		90	69 - 130
Diallate Peak 2	0.743	0.6688		ug/L		90	67 - 130
Ethyl methanesulfonate	2.86	2.407		ug/L		84	54 - 130
Hexachloropropene	2.86	2.398		ug/L		84	37 - 130
Isosafrole Peak 1	0.457	0.3636	J	ug/L		80	54 - 130
Isosafrole Peak 2	2.40	1.900		ug/L		79	62 - 130
Methyl methanesulfonate	2.86	1.290		ug/L		45	30 - 130
N-Nitrosodiethylamine	2.86	2.863		ug/L		100	54 - 130
N-Nitrosodimethylamine	2.86	1.066		ug/L		37	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.012	*+	ug/L		140	58 - 130
N-Nitrosomethylethylamine	2.86	2.111		ug/L		74	45 - 130
N-Nitrosomorpholine	2.86	1.760		ug/L		62	37 - 130
N-Nitrosopyrrolidine	2.86	2.028		ug/L		71	47 - 130
p-Dimethylamino azobenzene	2.86	3.050		ug/L		107	61 - 130
Pentachloronitrobenzene	2.86	4.821	*+	ug/L		169	56 - 130
Phenacetin	2.86	4.244	*+	ug/L		149	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	4.587	*+	ug/L		161	70 - 130
Safrole, Total	2.86	2.461		ug/L		86	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130
2-Fluorobiphenyl	140	S1+	43 - 130
2-Fluorophenol (Surr)	88		19 - 120
Nitrobenzene-d5 (Surr)	196	S1+	37 - 133
Phenol-d5 (Surr)	43		8 - 124
p-Terphenyl-d14	132	S1+	47 - 130

**Lab Sample ID: LCS 860-160152/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	7.987	*+	ug/L		140	45 - 138
Dinoseb	5.71	10.27	*+	ug/L		180	49 - 130
Disulfoton	5.71	4.313		ug/L		75	38 - 134
Ethyl Parathion	5.71	12.46	*+	ug/L		218	25 - 173

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160152/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Famphur	2.86	4.887	*+	ug/L		171	43 - 142
Methapyrilene	5.71	10.08		ug/L		176	70 - 183
Methyl parathion	5.71	10.68	*+	ug/L		187	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	3.580		ug/L		125	43 - 130
Phorate	5.71	7.650		ug/L		134	37 - 140
Sulfotepp	5.71	8.106		ug/L		142	28 - 158
Thionazin	2.86	3.472		ug/L		122	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130
2-Fluorobiphenyl	149	S1+	43 - 130
2-Fluorophenol (Surr)	76		19 - 120
Nitrobenzene-d5 (Surr)	206	S1+	37 - 133
Phenol-d5 (Surr)	50		8 - 124
p-Terphenyl-d14	144	S1+	47 - 130

**Lab Sample ID: LCSD 860-160152/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	2.285		ug/L		80	32 - 130	10	30
1,2-Dichlorobenzene	2.86	2.279		ug/L		80	32 - 130	3	30
1,3-Dichlorobenzene	2.86	2.151		ug/L		75	26 - 130	6	30
1,4-Dichlorobenzene	2.86	2.231		ug/L		78	28 - 130	4	30
2,2'-oxybis[1-chloropropane]	2.86	2.814	J I	ug/L		98	10 - 173	8	30
2,4,5-Trichlorophenol	2.86	3.826	*+	ug/L		134	35 - 130	9	30
2,4,6-Trichlorophenol	2.86	3.341		ug/L		117	52 - 129	10	30
2,4-Dichlorophenol	2.86	3.070		ug/L		107	53 - 122	4	30
2,4-Dimethylphenol	2.86	2.590		ug/L		91	42 - 120	18	30
1,4-Dioxane	2.86	1.061		ug/L		37	27 - 130	9	30
2,4-Dinitrophenol	2.86	3.081		ug/L		108	12 - 173	9	30
2,4-Dinitrotoluene	2.86	4.590	*+	ug/L		161	48 - 127	4	30
2,6-Dinitrotoluene	2.86	4.576	*+	ug/L		160	68 - 137	8	30
2-Chloronaphthalene	2.86	2.845		ug/L		100	10 - 130	10	30
2-Methylnaphthalene	2.86	2.762		ug/L		97	25 - 175	2	30
2-Methylphenol	2.86	2.417		ug/L		85	14 - 176	29	30
2-Nitroaniline	2.86	4.932	*+	ug/L		173	59 - 130	16	30
2-Nitrophenol	2.86	4.583		ug/L		160	45 - 167	8	30
3 & 4 Methylphenol	2.86	2.048		ug/L		72	22 - 130	24	30
3-Nitroaniline	2.86	1.912		ug/L		67	30 - 130	16	30
4,6-Dinitro-2-methylphenol	2.86	3.634		ug/L		127	10 - 130	13	30
4-Bromophenyl phenyl ether	2.86	3.418		ug/L		120	65 - 120	3	30
4-Chloro-3-methylphenol	2.86	3.369		ug/L		118	41 - 128	0	30
4-Chloroaniline	2.86	1.413		ug/L		49	30 - 130	26	30
4-Chlorophenyl phenyl ether	2.86	3.309		ug/L		116	38 - 145	7	30
4-Nitroaniline	2.86	2.425		ug/L		85	42 - 125	7	30
Acenaphthene	2.86	2.881		ug/L		101	60 - 132	19	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160152/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acenaphthylene	2.86	2.159		ug/L		76	54 - 126	7	30	
Aniline	2.86	1.014		ug/L		35	15 - 130	23	30	
Anthracene	2.86	3.133		ug/L		110	43 - 135	15	30	
Benzo[a]anthracene	2.86	3.745		ug/L		131	42 - 133	2	30	
Benzo[a]pyrene	2.86	3.082		ug/L		108	32 - 148	7	30	
Benzo[b]fluoranthene	2.86	4.266	*+	ug/L		149	42 - 140	3	30	
Benzo[g,h,i]perylene	2.86	3.163		ug/L		111	25 - 195	10	30	
Benzo[k]fluoranthene	2.86	3.362		ug/L		118	25 - 146	7	30	
Benzyl alcohol	2.86	2.577		ug/L		90	57 - 130	10	30	
Bis(2-chloroethoxy)methane	2.86	3.134		ug/L		110	49 - 165	10	30	
Bis(2-chloroethyl)ether	2.86	2.695		ug/L		94	43 - 126	5	30	
Bis(2-ethylhexyl) phthalate	2.86	4.728	*+	ug/L		165	29 - 137	5	30	
Butyl benzyl phthalate	2.86	5.494	*+	ug/L		192	28 - 130	1	30	
Chrysene	2.86	3.087		ug/L		108	47 - 130	8	30	
Dibenz(a,h)anthracene	2.86	3.392		ug/L		119	32 - 200	9	30	
Dibenzofuran	2.86	3.224		ug/L		113	48 - 130	2	30	
Diethyl phthalate	2.86	4.041	*+	ug/L		141	53 - 120	3	30	
Dimethyl phthalate	2.86	3.579	*+	ug/L		125	67 - 120	8	30	
Di-n-butyl phthalate	2.86	4.302	*+	ug/L		151	8 - 120	2	30	
Di-n-octyl phthalate	2.86	5.080		ug/L		178	19 - 200	4	30	
Fluoranthene	2.86	3.450		ug/L		121	43 - 130	1	30	
Fluorene	2.86	3.137		ug/L		110	70 - 130	3	30	
Hexachlorobenzene	2.86	2.985		ug/L		104	8 - 142	2	30	
Hexachlorobutadiene	2.86	1.836		ug/L		64	10 - 130	7	30	
Hexachlorocyclopentadiene	2.86	2.104		ug/L		74	10 - 130	8	30	
Hexachloroethane	2.86	1.993		ug/L		70	10 - 130	1	30	
Indeno[1,2,3-cd]pyrene	2.86	3.627		ug/L		127	29 - 151	11	30	
Isophorone	2.86	3.612		ug/L		126	47 - 180	8	30	
Naphthalene	2.86	2.971		ug/L		104	36 - 120	10	30	
Nitrobenzene	2.86	3.828	*+	ug/L		134	54 - 130	4	30	
N-Nitrosodi-n-propylamine	2.86	2.744		ug/L		96	14 - 198	2	30	
N-Nitrosodiphenylamine	2.86	2.251		ug/L		79	40 - 127	1	30	
Pentachlorophenol	2.86	4.054		ug/L		142	38 - 152	2	30	
Phenanthrene	2.86	3.305		ug/L		116	65 - 120	2	30	
Phenol	2.86	1.296	J	ug/L		45	17 - 120	20	30	
Pyrene	2.86	3.628		ug/L		127	70 - 130	11	30	
Pyridine	2.86	<1.44	U *1	ug/L		26	1 - 126	31	30	
N-Nitro-o-toluidine	2.86	2.238		ug/L		78	47 - 130	6	30	
2,3,4,6-Tetrachlorophenol	2.86	3.341		ug/L		117	33 - 132	3	30	
Acetophenone	2.86	2.551		ug/L		89	58 - 130	6	30	
N-Nitrosopiperidine	2.86	3.262		ug/L		114	54 - 130	13	30	
Pentachlorobenzene	2.86	2.850		ug/L		100	47 - 130	1	30	
Diphenyl ether	2.86	2.999		ug/L		105	61 - 130	8	30	
1,1'-Biphenyl	2.86	2.719		ug/L		95	52 - 130	9	30	
4-Aminobiphenyl	2.86	1.675		ug/L		59	35 - 130	13	30	
1,2,4,5-Tetrachlorobenzene	2.86	2.336		ug/L		82	52 - 130	8	30	
1,3,5-Trinitrobenzene	2.86	5.121	*+	ug/L		179	42 - 130	14	30	
1,3-Dinitrobenzene	2.86	4.568	*+	ug/L		160	54 - 130	8	30	
1,4-Naphthoquinone	2.86	3.795	*+	ug/L		133	34 - 130	0	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160152/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1-Naphthylamine	2.86	0.6669	*-	ug/L		23	40 - 130	3	30	
2,6-Dichlorophenol	2.86	3.002		ug/L		105	40 - 130	8	30	
2-Acetylaminofluorene	2.86	8.561	*+	ug/L		300	50 - 150	5	30	
2-Chlorophenol	2.86	2.894		ug/L		101	36 - 120	4	30	
2-Naphthylamine	2.86	0.7627	*-	ug/L		27	30 - 130	4	30	
2-Picoline	2.86	1.302		ug/L		46	22 - 130	19	30	
2-Toluidine	2.86	0.9769		ug/L		34	30 - 130	19	30	
3,3'-Dichlorobenzidine	2.86	1.821		ug/L		64	20 - 150	11	30	
3,3'-Dimethylbenzidine	2.86	0.6155	*-	ug/L		22	30 - 130	2	30	
3-Methylcholanthrene	2.86	3.141		ug/L		110	53 - 130	7	30	
4-Nitroquinoline-1-oxide	2.86	5.656	*+	ug/L		198	39 - 130	1	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.847	*+	ug/L		135	63 - 130	4	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	3.110	*+	ug/L		218	69 - 130	1	30	
Aramite Peak 2	1.43	3.076	*+	ug/L		215	65 - 130	3	30	
Diallate Peak 1	2.11	2.267		ug/L		107	69 - 130	17	30	
Diallate Peak 2	0.743	0.8441		ug/L		114	67 - 130	23	30	
Ethyl methanesulfonate	2.86	2.272		ug/L		80	54 - 130	6	30	
Hexachloropropene	2.86	2.286		ug/L		80	37 - 130	5	30	
Isosafrole Peak 1	0.457	0.2911	J	ug/L		64	54 - 130	22	30	
Isosafrole Peak 2	2.40	1.573		ug/L		66	62 - 130	19	30	
Methyl methanesulfonate	2.86	1.194		ug/L		42	30 - 130	8	30	
N-Nitrosodiethylamine	2.86	2.708		ug/L		95	54 - 130	6	30	
N-Nitrosodimethylamine	2.86	1.035		ug/L		36	28 - 126	3	30	
N-Nitrosodi-n-butylamine	2.86	3.637		ug/L		127	58 - 130	10	30	
N-Nitrosomethylethylamine	2.86	1.970		ug/L		69	45 - 130	7	30	
N-Nitrosomorpholine	2.86	1.750		ug/L		61	37 - 130	1	30	
N-Nitrosopyrrolidine	2.86	1.934		ug/L		68	47 - 130	5	30	
p-Dimethylamino azobenzene	2.86	3.984	*+	ug/L		139	61 - 130	27	30	
Pentachloronitrobenzene	2.86	4.428	*+	ug/L		155	56 - 130	8	30	
Phenacetin	2.86	4.074	*+	ug/L		143	70 - 130	4	30	
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	4.470	*+	ug/L		156	70 - 130	3	30	
Safrole, Total	2.86	2.378		ug/L		83	70 - 130	3	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	146	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	78		19 - 120
Nitrobenzene-d5 (Surr)	168	S1+	37 - 133
Phenol-d5 (Surr)	49		8 - 124
p-Terphenyl-d14	122		47 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160152/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160152**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	9.183	*+	ug/L		161	45 - 138	14	30	
Dinoseb	5.71	11.07	*+	ug/L		194	49 - 130	7	30	
Disulfoton	5.71	5.538		ug/L		97	38 - 134	25	30	
Ethyl Parathion	5.71	12.73	*+	ug/L		223	25 - 173	2	30	
Famphur	2.86	5.131	*+	ug/L		180	43 - 142	5	30	
Methapyrilene	5.71	10.44		ug/L		183	70 - 183	4	30	
Methyl parathion	5.71	11.88	*+	ug/L		208	26 - 159	11	30	
o,o',o"-Triethylphosphorothioate	2.86	3.702		ug/L		130	43 - 130	3	30	
Phorate	5.71	8.729	*+	ug/L		153	37 - 140	13	30	
Sulfotepp	5.71	8.475		ug/L		148	28 - 158	4	30	
Thionazin	2.86	3.615		ug/L		127	50 - 150	4	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	160	S1+	35 - 130
2-Fluorobiphenyl	141	S1+	43 - 130
2-Fluorophenol (Surr)	82		19 - 120
Nitrobenzene-d5 (Surr)	199	S1+	37 - 133
Phenol-d5 (Surr)	54		8 - 124
p-Terphenyl-d14	136	S1+	47 - 130

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 14:30	05/15/24 16:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/15/24 16:05	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/15/24 16:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzyl alcohol	0.7250	J	1.14	0.600	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 14:30	05/15/24 16:05	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 14:30	05/15/24 16:05	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 14:30	05/15/24 16:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:30	05/15/24 16:05	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:30	05/15/24 16:05	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/15/24 16:05	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pronamide	0.1811	J I	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/15/24 16:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/15/24 16:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/15/24 16:05	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorobiphenyl	117		43 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorophenol (Surr)	78		19 - 120	05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133	05/14/24 14:30	05/15/24 16:05	1
Phenol-d5 (Surr)	33		8 - 124	05/14/24 14:30	05/15/24 16:05	1
p-Terphenyl-d14	121		47 - 130	05/14/24 14:30	05/15/24 16:05	1

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
1,2,4-Trichlorobenzene	2.86	2.907		ug/L		102	32 - 130
1,2-Dichlorobenzene	2.86	2.651		ug/L		93	32 - 130
1,3-Dichlorobenzene	2.86	2.518		ug/L		88	26 - 130
1,4-Dichlorobenzene	2.86	2.589		ug/L		91	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	3.056	I	ug/L		107	10 - 173
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130
2,4,6-Trichlorophenol	2.86	4.075	*+	ug/L		143	52 - 129
2,4-Dichlorophenol	2.86	3.540	*+	ug/L		124	53 - 122
2,4-Dimethylphenol	2.86	3.023		ug/L		106	42 - 120
1,4-Dioxane	2.86	1.278		ug/L		45	27 - 130
2,4-Dinitrophenol	2.86	3.263		ug/L		114	12 - 173
2,4-Dinitrotoluene	2.86	4.832	*+	ug/L		169	48 - 127
2,6-Dinitrotoluene	2.86	5.554	*+	ug/L		194	68 - 137
2-Chloronaphthalene	2.86	4.009	*+	ug/L		140	10 - 130
2-Methylnaphthalene	2.86	3.510		ug/L		123	25 - 175
2-Methylphenol	2.86	2.730		ug/L		96	14 - 176
2-Nitroaniline	2.86	5.650	*+	ug/L		198	59 - 130
2-Nitrophenol	2.86	5.344	*+	ug/L		187	45 - 167
3 & 4 Methylphenol	2.86	2.183		ug/L		76	22 - 130
3-Nitroaniline	2.86	2.061		ug/L		72	30 - 130
4,6-Dinitro-2-methylphenol	2.86	4.063	*+	ug/L		142	10 - 130
4-Bromophenyl phenyl ether	2.86	3.459	*+	ug/L		121	65 - 120
4-Chloro-3-methylphenol	2.86	4.144	*+	ug/L		145	41 - 128
4-Chloroaniline	2.86	1.659		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	3.497		ug/L		122	38 - 145
4-Nitroaniline	2.86	2.409		ug/L		84	42 - 125
Acenaphthene	2.86	2.996		ug/L		105	60 - 132
Acenaphthylene	2.86	2.391		ug/L		84	54 - 126
Aniline	2.86	1.236		ug/L		43	15 - 130
Anthracene	2.86	3.199		ug/L		112	43 - 135
Benzo[a]anthracene	2.86	4.117	*+	ug/L		144	42 - 133

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	2.86	3.331		ug/L		117	32 - 148
Benzo[b]fluoranthene	2.86	4.705	*+	ug/L		165	42 - 140
Benzo[g,h,i]perylene	2.86	3.439		ug/L		120	25 - 195
Benzo[k]fluoranthene	2.86	3.842		ug/L		134	25 - 146
Benzyl alcohol	2.86	3.224		ug/L		113	57 - 130
Bis(2-chloroethoxy)methane	2.86	3.665		ug/L		128	49 - 165
Bis(2-chloroethyl)ether	2.86	2.971		ug/L		104	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	5.369	*+	ug/L		188	29 - 137
Butyl benzyl phthalate	2.86	5.915	*+	ug/L		207	28 - 130
Chrysene	2.86	3.521		ug/L		123	47 - 130
Dibenz(a,h)anthracene	2.86	3.729		ug/L		131	32 - 200
Dibenzofuran	2.86	3.449		ug/L		121	48 - 130
Diethyl phthalate	2.86	4.515	*+	ug/L		158	53 - 120
Dimethyl phthalate	2.86	4.364	*+	ug/L		153	67 - 120
Di-n-butyl phthalate	2.86	4.644	*+	ug/L		163	8 - 120
Di-n-octyl phthalate	2.86	5.725		ug/L		200	19 - 200
Fluoranthene	2.86	3.581		ug/L		125	43 - 130
Fluorene	2.86	3.236		ug/L		113	70 - 130
Hexachlorobenzene	2.86	3.251		ug/L		114	8 - 142
Hexachlorobutadiene	2.86	2.351		ug/L		82	10 - 130
Hexachlorocyclopentadiene	2.86	2.803		ug/L		98	10 - 130
Hexachloroethane	2.86	2.486		ug/L		87	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	4.042		ug/L		141	29 - 151
Isophorone	2.86	4.361		ug/L		153	47 - 180
Naphthalene	2.86	3.660	*+	ug/L		128	36 - 120
Nitrobenzene	2.86	4.338	*+	ug/L		152	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.092		ug/L		108	14 - 198
N-Nitrosodiphenylamine	2.86	2.284		ug/L		80	40 - 127
Pentachlorophenol	2.86	4.233		ug/L		148	38 - 152
Phenanthrene	2.86	3.525	*+	ug/L		123	65 - 120
Phenol	2.86	1.602	J	ug/L		56	17 - 120
Pyrene	2.86	3.723		ug/L		130	70 - 130
Pyridine	2.86	<1.44	U	ug/L		33	1 - 126
N-Nitro-o-toluidine	2.86	2.012		ug/L		70	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.749		ug/L		131	33 - 132
Acetophenone	2.86	2.801		ug/L		98	58 - 130
N-Nitrosopiperidine	2.86	4.055	*+	ug/L		142	54 - 130
Pentachlorobenzene	2.86	3.199		ug/L		112	47 - 130
Diphenyl ether	2.86	3.604		ug/L		126	61 - 130
1,1'-Biphenyl	2.86	3.188		ug/L		112	52 - 130
4-Aminobiphenyl	2.86	1.696		ug/L		59	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	3.000		ug/L		105	52 - 130
1,3,5-Trinitrobenzene	2.86	5.467	*+	ug/L		191	42 - 130
1,3-Dinitrobenzene	2.86	5.685	*+	ug/L		199	54 - 130
1,4-Naphthoquinone	2.86	4.554	*+	ug/L		159	34 - 130
1-Naphthylamine	2.86	0.6700	I *-	ug/L		23	40 - 130
2,6-Dichlorophenol	2.86	3.725		ug/L		130	40 - 130
2-Acetylaminofluorene	2.86	9.129	*+	ug/L		320	50 - 150
2-Chlorophenol	2.86	3.236		ug/L		113	36 - 120

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Naphthylamine	2.86	0.7905	*-	ug/L		28	30 - 130
2-Picoline	2.86	1.485		ug/L		52	22 - 130
2-Toluidine	2.86	1.076		ug/L		38	30 - 130
3,3'-Dichlorobenzidine	2.86	1.832		ug/L		64	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4976	J *	ug/L		17	30 - 130
3-Methylcholanthrene	2.86	3.296		ug/L		115	53 - 130
4-Nitroquinoline-1-oxide	2.86	6.357	*+	ug/L		222	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	4.260	*+	ug/L		149	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.170	*+	ug/L		222	69 - 130
Aramite Peak 2	1.43	3.540	*+	ug/L		248	65 - 130
Diallate Peak 1	2.11	2.370		ug/L		112	69 - 130
Diallate Peak 2	0.743	0.8822		ug/L		119	67 - 130
Ethyl methanesulfonate	2.86	2.547		ug/L		89	54 - 130
Hexachloropropene	2.86	3.063		ug/L		107	37 - 130
Isosafrole Peak 1	0.457	0.3620	J	ug/L		79	54 - 130
Isosafrole Peak 2	2.40	1.859		ug/L		77	62 - 130
Methyl methanesulfonate	2.86	1.354		ug/L		47	30 - 130
N-Nitrosodiethylamine	2.86	3.079		ug/L		108	54 - 130
N-Nitrosodimethylamine	2.86	1.240		ug/L		43	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.427	*+	ug/L		155	58 - 130
N-Nitrosomethylethylamine	2.86	2.289		ug/L		80	45 - 130
N-Nitrosomorpholine	2.86	2.009		ug/L		70	37 - 130
N-Nitrosopyrrolidine	2.86	2.321		ug/L		81	47 - 130
p-Dimethylamino azobenzene	2.86	4.390	*+	ug/L		154	61 - 130
Pentachloronitrobenzene	2.86	4.827	*+	ug/L		169	56 - 130
Phenacetin	2.86	4.508	*+	ug/L		158	70 - 130
p-Phenylene diamine	2.86	<0.500	U	ug/L		11	3 - 120
Pronamide	2.86	4.772	*+	ug/L		167	70 - 130
Safrole, Total	2.86	2.669		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	93		19 - 120
Nitrobenzene-d5 (Surr)	206	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	8.349	*+	ug/L		146	45 - 138
Dinoseb	5.71	10.58	*+	ug/L		185	49 - 130
Disulfoton	5.71	6.417		ug/L		112	38 - 134
Ethyl Parathion	5.71	12.45	*+	ug/L		218	25 - 173

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Famphur	2.86	4.910	*+	ug/L		172	43 - 142	
Methapyrilene	5.71	9.732		ug/L		170	70 - 183	
Methyl parathion	5.71	11.52	*+	ug/L		202	26 - 159	
o,o',o"-Triethylphosphorothioate	2.86	3.465		ug/L		121	43 - 130	
Phorate	5.71	8.223	*+	ug/L		144	37 - 140	
Sulfotepp	5.71	7.783		ug/L		136	28 - 158	
Thionazin	2.86	3.524		ug/L		123	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	149	S1+	35 - 130
2-Fluorobiphenyl	126		43 - 130
2-Fluorophenol (Surr)	83		19 - 120
Nitrobenzene-d5 (Surr)	185	S1+	37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	Limit
1,2,4-Trichlorobenzene	2.86	2.875		ug/L		101	32 - 130	1	30	
1,2-Dichlorobenzene	2.86	2.824		ug/L		99	32 - 130	6	30	
1,3-Dichlorobenzene	2.86	2.628		ug/L		92	26 - 130	4	30	
1,4-Dichlorobenzene	2.86	2.725		ug/L		95	28 - 130	5	30	
2,2'-oxybis[1-chloropropane]	2.86	3.206	I	ug/L		112	10 - 173	5	30	
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130	0	30	
2,4,6-Trichlorophenol	2.86	4.136	*+	ug/L		145	52 - 129	1	30	
2,4-Dichlorophenol	2.86	3.788	*+	ug/L		133	53 - 122	7	30	
2,4-Dimethylphenol	2.86	2.886		ug/L		101	42 - 120	5	30	
1,4-Dioxane	2.86	1.347		ug/L		47	27 - 130	5	30	
2,4-Dinitrophenol	2.86	3.573		ug/L		125	12 - 173	9	30	
2,4-Dinitrotoluene	2.86	5.083	*+	ug/L		178	48 - 127	5	30	
2,6-Dinitrotoluene	2.86	5.609	*+	ug/L		196	68 - 137	1	30	
2-Chloronaphthalene	2.86	4.075	*+	ug/L		143	10 - 130	2	30	
2-Methylnaphthalene	2.86	3.440		ug/L		120	25 - 175	2	30	
2-Methylphenol	2.86	2.668		ug/L		93	14 - 176	2	30	
2-Nitroaniline	2.86	5.733	*+	ug/L		201	59 - 130	1	30	
2-Nitrophenol	2.86	5.516	*+	ug/L		193	45 - 167	3	30	
3 & 4 Methylphenol	2.86	2.098		ug/L		73	22 - 130	4	30	
3-Nitroaniline	2.86	2.189		ug/L		77	30 - 130	6	30	
4,6-Dinitro-2-methylphenol	2.86	4.009	*+	ug/L		140	10 - 130	1	30	
4-Bromophenyl phenyl ether	2.86	3.778	*+	ug/L		132	65 - 120	9	30	
4-Chloro-3-methylphenol	2.86	4.206	*+	ug/L		147	41 - 128	1	30	
4-Chloroaniline	2.86	1.780		ug/L		62	30 - 130	7	30	
4-Chlorophenyl phenyl ether	2.86	3.726		ug/L		130	38 - 145	6	30	
4-Nitroaniline	2.86	2.495		ug/L		87	42 - 125	4	30	
Acenaphthene	2.86	2.810		ug/L		98	60 - 132	6	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Acenaphthylene	2.86	2.424		ug/L		85	54 - 126	1	30	
Aniline	2.86	1.087		ug/L		38	15 - 130	13	30	
Anthracene	2.86	3.099		ug/L		108	43 - 135	3	30	
Benzo[a]anthracene	2.86	3.759		ug/L		132	42 - 133	9	30	
Benzo[a]pyrene	2.86	3.327		ug/L		116	32 - 148	0	30	
Benzo[b]fluoranthene	2.86	4.072	*+	ug/L		143	42 - 140	14	30	
Benzo[g,h,i]perylene	2.86	3.452		ug/L		121	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	3.480		ug/L		122	25 - 146	10	30	
Benzyl alcohol	2.86	3.460		ug/L		121	57 - 130	7	30	
Bis(2-chloroethoxy)methane	2.86	3.758		ug/L		132	49 - 165	3	30	
Bis(2-chloroethyl)ether	2.86	3.127		ug/L		109	43 - 126	5	30	
Bis(2-ethylhexyl) phthalate	2.86	4.865	*+	ug/L		170	29 - 137	10	30	
Butyl benzyl phthalate	2.86	5.844	*+	ug/L		205	28 - 130	1	30	
Chrysene	2.86	3.158		ug/L		111	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	3.669		ug/L		128	32 - 200	2	30	
Dibenzofuran	2.86	3.652		ug/L		128	48 - 130	6	30	
Diethyl phthalate	2.86	4.432	*+	ug/L		155	53 - 120	2	30	
Dimethyl phthalate	2.86	4.497	*+	ug/L		157	67 - 120	3	30	
Di-n-butyl phthalate	2.86	4.593	*+	ug/L		161	8 - 120	1	30	
Di-n-octyl phthalate	2.86	5.130		ug/L		180	19 - 200	11	30	
Fluoranthene	2.86	3.667		ug/L		128	43 - 130	2	30	
Fluorene	2.86	3.357		ug/L		117	70 - 130	4	30	
Hexachlorobenzene	2.86	3.126		ug/L		109	8 - 142	4	30	
Hexachlorobutadiene	2.86	2.528		ug/L		88	10 - 130	7	30	
Hexachlorocyclopentadiene	2.86	2.912		ug/L		102	10 - 130	4	30	
Hexachloroethane	2.86	2.609		ug/L		91	10 - 130	5	30	
Indeno[1,2,3-cd]pyrene	2.86	3.973		ug/L		139	29 - 151	2	30	
Isophorone	2.86	4.559		ug/L		160	47 - 180	4	30	
Naphthalene	2.86	3.606	*+	ug/L		126	36 - 120	1	30	
Nitrobenzene	2.86	4.626	*+	ug/L		162	54 - 130	6	30	
N-Nitrosodi-n-propylamine	2.86	3.161		ug/L		111	14 - 198	2	30	
N-Nitrosodiphenylamine	2.86	2.359		ug/L		83	40 - 127	3	30	
Pentachlorophenol	2.86	4.290		ug/L		150	38 - 152	1	30	
Phenanthrene	2.86	3.535	*+	ug/L		124	65 - 120	0	30	
Phenol	2.86	1.636	J	ug/L		57	17 - 120	2	30	
Pyrene	2.86	3.722		ug/L		130	70 - 130	0	30	
Pyridine	2.86	<1.44	U	ug/L		36	1 - 126	8	30	
N-Nitro-o-toluidine	2.86	2.132		ug/L		75	47 - 130	6	30	
2,3,4,6-Tetrachlorophenol	2.86	3.760		ug/L		132	33 - 132	0	30	
Acetophenone	2.86	2.947		ug/L		103	58 - 130	5	30	
N-Nitrosopiperidine	2.86	4.213	*+	ug/L		147	54 - 130	4	30	
Pentachlorobenzene	2.86	3.296		ug/L		115	47 - 130	3	30	
Diphenyl ether	2.86	3.671		ug/L		128	61 - 130	2	30	
1,1'-Biphenyl	2.86	3.306		ug/L		116	52 - 130	4	30	
4-Aminobiphenyl	2.86	1.814		ug/L		64	35 - 130	7	30	
1,2,4,5-Tetrachlorobenzene	2.86	3.048		ug/L		107	52 - 130	2	30	
1,3,5-Trinitrobenzene	2.86	5.777	*+	ug/L		202	42 - 130	6	30	
1,3-Dinitrobenzene	2.86	5.712	*+	ug/L		200	54 - 130	0	30	
1,4-Naphthoquinone	2.86	4.642	*+	ug/L		162	34 - 130	2	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Naphthylamine	2.86	0.3682	J   *- *1	ug/L		13	40 - 130	58	30
2,6-Dichlorophenol	2.86	3.691		ug/L		129	40 - 130	1	30
2-Acetylaminofluorene	2.86	8.930	*+	ug/L		313	50 - 150	2	30
2-Chlorophenol	2.86	3.424		ug/L		120	36 - 120	6	30
2-Naphthylamine	2.86	0.4953	J *- *1	ug/L		17	30 - 130	46	30
2-Picoline	2.86	1.348		ug/L		47	22 - 130	10	30
2-Toluidine	2.86	1.048		ug/L		37	30 - 130	3	30
3,3'-Dichlorobenzidine	2.86	1.946		ug/L		68	20 - 150	6	30
3,3'-Dimethylbenzidine	2.86	0.3553	J *- *1	ug/L		12	30 - 130	33	30
3-Methylcholanthrene	2.86	3.233		ug/L		113	53 - 130	2	30
4-Nitroquinoline-1-oxide	2.86	6.027	*+	ug/L		211	39 - 130	5	30
7,12-Dimethylbenz(a)anthracene	2.86	3.801	*+	ug/L		133	63 - 130	11	30
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30
Aramite Peak 1	1.43	3.509	*+	ug/L		246	69 - 130	10	30
Aramite Peak 2	1.43	3.432	*+	ug/L		240	65 - 130	3	30
Diallate Peak 1	2.11	2.476		ug/L		117	69 - 130	4	30
Diallate Peak 2	0.743	0.8093		ug/L		109	67 - 130	9	30
Ethyl methanesulfonate	2.86	2.625		ug/L		92	54 - 130	3	30
Hexachloropropene	2.86	3.036		ug/L		106	37 - 130	1	30
Isosafrole Peak 1	0.457	0.3482	J	ug/L		76	54 - 130	4	30
Isosafrole Peak 2	2.40	1.878		ug/L		78	62 - 130	1	30
Methyl methanesulfonate	2.86	1.424		ug/L		50	30 - 130	5	30
N-Nitrosodiethylamine	2.86	3.272		ug/L		115	54 - 130	6	30
N-Nitrosodimethylamine	2.86	1.262		ug/L		44	28 - 126	2	30
N-Nitrosodi-n-butylamine	2.86	4.563	*+	ug/L		160	58 - 130	3	30
N-Nitrosomethylethylamine	2.86	2.398		ug/L		84	45 - 130	5	30
N-Nitrosomorpholine	2.86	2.035		ug/L		71	37 - 130	1	30
N-Nitrosopyrrolidine	2.86	2.316		ug/L		81	47 - 130	0	30
p-Dimethylamino azobenzene	2.86	4.128	*+	ug/L		144	61 - 130	6	30
Pentachloronitrobenzene	2.86	5.144	*+	ug/L		180	56 - 130	6	30
Phenacetin	2.86	4.635	*+	ug/L		162	70 - 130	3	30
p-Phenylene diamine	2.86	<0.500	U *- *1	ug/L		0	3 - 120	200	30
Pronamide	2.86	4.807	*+	ug/L		168	70 - 130	1	30
Safrole, Total	2.86	2.539		ug/L		89	70 - 130	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	162	S1+	35 - 130
2-Fluorobiphenyl	136	S1+	43 - 130
2-Fluorophenol (Surr)	98		19 - 120
Nitrobenzene-d5 (Surr)	211	S1+	37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14	121		47 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.862		ug/L		138	45 - 138	6	30	
Dinoseb	5.71	10.04	*+	ug/L		176	49 - 130	5	30	
Disulfoton	5.71	5.406		ug/L		95	38 - 134	17	30	
Ethyl Parathion	5.71	11.34	*+	ug/L		198	25 - 173	9	30	
Famphur	2.86	4.422	*+	ug/L		155	43 - 142	10	30	
Methapyrilene	5.71	9.127		ug/L		160	70 - 183	6	30	
Methyl parathion	5.71	10.21	*+	ug/L		179	26 - 159	12	30	
o,o',o"-Triethylphosphorothioate	2.86	3.178		ug/L		111	43 - 130	9	30	
Phorate	5.71	7.544		ug/L		132	37 - 140	9	30	
Sulfotepp	5.71	7.160		ug/L		125	28 - 158	8	30	
Thionazin	2.86	3.352		ug/L		117	50 - 150	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130
2-Fluorobiphenyl	147	S1+	43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	204	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	127		47 - 130

# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## GC/MS VOA

### Analysis Batch: 160029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	8260D	
860-73924-2	HMW-2	Total/NA	Water	8260D	
860-73924-3	DUPE-04	Total/NA	Water	8260D	
860-73924-4	RB-03	Total/NA	Water	8260D	
860-73924-5	HMW-03	Total/NA	Water	8260D	
860-73924-6	FB-03	Total/NA	Water	8260D	
860-73924-7	HMW-5	Total/NA	Water	8260D	
860-73924-8	HMW-4	Total/NA	Water	8260D	
860-73924-9	TB-04 (050824)	Total/NA	Water	8260D	
MB 860-160029/17	Method Blank	Total/NA	Water	8260D	
LCS 860-160029/1011	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160029/12	Lab Control Sample Dup	Total/NA	Water	8260D	
860-73924-1 MS	HMW-1	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 159586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	3511	
860-73924-2	HMW-2	Total/NA	Water	3511	
860-73924-3	DUPE-04	Total/NA	Water	3511	
860-73924-4	RB-03	Total/NA	Water	3511	
860-73924-5	HMW-03	Total/NA	Water	3511	
860-73924-7	HMW-5	Total/NA	Water	3511	
860-73924-8	HMW-4	Total/NA	Water	3511	
MB 860-159586/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 159684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	8270E	159586
860-73924-2	HMW-2	Total/NA	Water	8270E	159586
860-73924-3	DUPE-04	Total/NA	Water	8270E	159586
860-73924-4	RB-03	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCS 860-159586/4-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586
LCSD 860-159586/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Analysis Batch: 159705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-5	HMW-03	Total/NA	Water	8270E	159586
860-73924-7	HMW-5	Total/NA	Water	8270E	159586
860-73924-8	HMW-4	Total/NA	Water	8270E	159586

# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## GC/MS Semi VOA

### Analysis Batch: 159967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	8270E	159586
860-73924-2	HMW-2	Total/NA	Water	8270E	159586
860-73924-3	DUPE-04	Total/NA	Water	8270E	159586
860-73924-4	RB-03	Total/NA	Water	8270E	159586
860-73924-5	HMW-03	Total/NA	Water	8270E	159586
860-73924-7	HMW-5	Total/NA	Water	8270E	159586
860-73924-8	HMW-4	Total/NA	Water	8270E	159586
MB 860-159586/1-A	Method Blank	Total/NA	Water	8270E	159586
LCS 860-159586/2-A	Lab Control Sample	Total/NA	Water	8270E	159586
LCSD 860-159586/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	159586

### Prep Batch: 160152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-4	RB-03	Total/NA	Water	3511	
860-73924-5	HMW-03	Total/NA	Water	3511	
860-73924-7	HMW-5	Total/NA	Water	3511	
860-73924-8	HMW-4	Total/NA	Water	3511	
MB 860-160152/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160152/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-160152/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160152/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160152/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Prep Batch: 160172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	3511	
860-73924-2	HMW-2	Total/NA	Water	3511	
860-73924-3	DUPE-04	Total/NA	Water	3511	
MB 860-160172/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 160232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	8270E	159586
860-73924-2	HMW-2	Total/NA	Water	8270E	159586
860-73924-3	DUPE-04	Total/NA	Water	8270E	159586
860-73924-4	RB-03	Total/NA	Water	8270E	159586
860-73924-5	HMW-03	Total/NA	Water	8270E	159586
860-73924-7	HMW-5	Total/NA	Water	8270E	159586
860-73924-8	HMW-4	Total/NA	Water	8270E	159586

### Analysis Batch: 160340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-160152/1-A	Method Blank	Total/NA	Water	8270E	160152
MB 860-160172/1-A	Method Blank	Total/NA	Water	8270E	160172
LCS 860-160152/2-A	Lab Control Sample	Total/NA	Water	8270E	160152
LCS 860-160152/4-A	Lab Control Sample	Total/NA	Water	8270E	160152
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	8270E	160172

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 160340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCSD 860-160152/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160152
LCSD 860-160152/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160152
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172

### Analysis Batch: 160986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73924-1	HMW-1	Total/NA	Water	8270E	160172
860-73924-2	HMW-2	Total/NA	Water	8270E	160172
860-73924-3	DUPE-04	Total/NA	Water	8270E	160172
860-73924-4	RB-03	Total/NA	Water	8270E	160152
860-73924-5	HMW-03	Total/NA	Water	8270E	160152
860-73924-7	HMW-5	Total/NA	Water	8270E	160152
860-73924-8	HMW-4	Total/NA	Water	8270E	160152

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Client Sample ID: HMW-1

Date Collected: 05/08/24 08:31

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 14:18	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 06:32	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 03:17	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 05:21	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 03:34	PXS	EET HOU

## Client Sample ID: HMW-2

Date Collected: 05/08/24 10:08

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 14:38	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 07:00	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 03:47	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 05:50	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 04:03	PXS	EET HOU

## Client Sample ID: DUPE-04

Date Collected: 05/08/24 00:00

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 14:59	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 07:29	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 04:17	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 06:20	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 04:32	PXS	EET HOU

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Client Sample ID: RB-03

Date Collected: 05/08/24 10:29

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 15:19	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 07:57	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159684	05/11/24 04:48	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 06:49	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160152	05/14/24 13:46	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 05:01	PXS	EET HOU

## Client Sample ID: HMW-03

Date Collected: 05/08/24 12:45

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 15:40	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 08:26	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159705	05/11/24 07:48	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 07:19	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160152	05/14/24 13:46	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 05:29	PXS	EET HOU

## Client Sample ID: FB-03

Date Collected: 05/08/24 12:45

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 16:00	NA	EET HOU

## Client Sample ID: HMW-5

Date Collected: 05/08/24 13:39

Date Received: 05/09/24 10:49

## Lab Sample ID: 860-73924-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 16:21	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 08:54	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159705	05/11/24 08:18	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 07:48	LPL	EET HOU

Eurofins Houston



# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

**Client Sample ID: HMW-5**

**Lab Sample ID: 860-73924-7**

Date Collected: 05/08/24 13:39

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			35.00 mL	2.00 mL	160152	05/14/24 13:46	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 05:58	PXS	EET HOU

**Client Sample ID: HMW-4**

**Lab Sample ID: 860-73924-8**

Date Collected: 05/08/24 14:40

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 16:41	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159967	05/14/24 09:22	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	159705	05/11/24 08:48	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	159586	05/10/24 10:20	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160232	05/15/24 08:17	LPL	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160152	05/14/24 13:46	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160986	05/18/24 06:27	PXS	EET HOU

**Client Sample ID: TB-04 (050824)**

**Lab Sample ID: 860-73924-9**

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160029	05/14/24 13:57	NA	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	05-21-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-73924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-73924-1	HMW-1	Water	05/08/24 08:31	05/09/24 10:49
860-73924-2	HMW-2	Water	05/08/24 10:08	05/09/24 10:49
860-73924-3	DUPE-04	Water	05/08/24 00:00	05/09/24 10:49
860-73924-4	RB-03	Water	05/08/24 10:29	05/09/24 10:49
860-73924-5	HMW-03	Water	05/08/24 12:45	05/09/24 10:49
860-73924-6	FB-03	Water	05/08/24 12:45	05/09/24 10:49
860-73924-7	HMW-5	Water	05/08/24 13:39	05/09/24 10:49
860-73924-8	HMW-4	Water	05/08/24 14:40	05/09/24 10:49
860-73924-9	TB-04 (050824)	Water	05/08/24 00:00	05/09/24 10:49

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**Eurofins Houston**  
4145 Greenbriar Dr  
Stafford TX 77477  
Phone (281) 240-4200

*HMW-1 will be*

**Chain of Custody Record**

<b>Client Information</b>		Client Contact: Mr. Antonio Cardoso	Company: Arcadis U.S. Inc.	Address: 4300 West Cypress Street Suite 450	City: Tampa	State/Zip: FL 33607	Phone: [blank]	Sample ID: <i>HMW-1</i>	Lab P/N: Sachin Kudchadkar	Carrier Tracking No(s): <i>M/S</i>	COG No: 860-29133-10045.5	Page: Page 5 of 8
Due Date Requested:		TAT Requested (days):		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 1095575	WO #: [blank]	Project #: 88006085	SSOW#: [blank]	Analysis Requested		
Email: antonio.cardoso@arcadis.com		Project Name: Hercules Hattiesburg, MS		Project #: 88006085		SSOW#: [blank]		Field Filtered Sample (Yes or No)		8270E_QQ (MOD) Appendix 9 SVOCs		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Other)	Preservation Code:	Field Filtered Sample (Yes or No)	8260D (MOD) Appendix 9 VOCs	Total Number of containers		Special Instructions/Note:	
HMW-37	HMW-1	5-8-24	0831	G	Water		N		7			
HMW-68	HMW-2	"	1008		Water		N		7			
HMW-87	DUP-04	"	-		Water		N		7			
HMW-70	RB-03	"	1089		Water		N		7			
HMW-71	HMW-3	"	1245		Water		N		7			
HMW-72	FB-03	"	1245		Water		N		7			
HMW-1	HMW-5	"	1339		Water		N		7			
HMW-2	HMW-4	"	1440		Water		N		7			
HMW-3	FB-04 (50824)	"	-		Water		N		7			
HMW-4					Water							
HMW-5					Water							

860-73924 Chain of Custody

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Deliverable Requested:** I, II, III, IV Other (specify)

**Sample Disposal:**  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/OC Requirements:**

**Empty Kit Relinquished by:** \_\_\_\_\_ Date: \_\_\_\_\_

**Relinquished by:** *Antonio Cardoso* Date/Time: *5/8/24/1545* Company: *Arcadis*

**Relinquished by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Relinquished by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Custody Seals Intact:**  Yes  No **Custody Seal No.:** \_\_\_\_\_

**Method of Shipment:** \_\_\_\_\_

**Received by:** *Numer* Date/Time: *5/9/24 1049* Company: \_\_\_\_\_

**Received by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Cooler Temperature(s) °C and Other Remarks:**

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-73924-1

**Login Number: 73924**

**List Number: 1**

**Creator: Jimenez, Nicanor**

**List Source: Eurofins Houston**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

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**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-74003-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025





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# Definitions/Glossary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Eurofins Houston

# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Job ID: 860-74003-1**

**Eurofins Houston**

## Job Narrative 860-74003-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/10/2024 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

### GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-160449 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-160178 and analytical batch 860-160340 was outside the upper control limits.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-34-SR (860-74003-1), MW-129-S (860-74003-2), MW-129-D (860-74003-4), MW-32-D (860-74003-5), RB-02 (860-74003-7), MW-31-D (860-74003-8), MW-33-S (860-74003-11) and MW-33-D (860-74003-13). These results have been reported and qualified.

Method 8270E\_QQQ: Surrogate recovery for the following samples were outside control limits: MW-27-D (860-74003-6), MW-27-D (860-74003-6[MS]) and MW-27-D (860-74003-6[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-160178 and analytical batch 860-160340 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-160178 and analytical batch 860-160340 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine, and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

Method 8270E\_QQQ: The method blank for preparation batch 860-160178 and analytical batch 860-160340 contained Benzo[a]anthracene and Pronamide above the method detection limit. These target analytes concentration were less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: MW-34DR (860-74003-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-34DR (860-74003-3) and MW-33-S (860-74003-11). Elevated reporting limits (RLs) are provided.

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Job ID: 860-74003-1 (Continued)

Eurofins Houston

Method 8270E\_QQQ: Surrogate recovery for the following samples were outside control limits: MW-34DR (860-74003-3) and MW-33-S (860-74003-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: The following samples were re-prepared and re-analyzed outside of preparation holding time due to initial analysis LCS/LCSD recoveries outside control limits: MW-27-D (860-74003-6[MS]) and MW-27-D (860-74003-6[MSD]).

Method 8270E\_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-33-D (860-74003-13) and DUPE-02 (860-74003-14). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E\_QQQ: The following samples were re-prepared and re-analyzed outside of preparation holding time due to initial analysis Benzyl alcohol contamination in method blank: MW-34-SR (860-74003-1), MW-34DR (860-74003-3), MW-129-D (860-74003-4), MW-32-D (860-74003-5), MW-27-D (860-74003-6), MW-27-D (860-74003-6[MS]), MW-27-D (860-74003-6[MSD]) and RB-02 (860-74003-7).

Method 8270E\_QQQ: The method blank for preparation batch 860-161375 and analytical batch 860-161477 contained Benzyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample duplicate (LCSD) for preparation batch 860-161375 and analytical batch 860-161477 recovered outside control limits for the following analyte: Dinoseb. This analyte was biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-161375 and analytical batch 860-161477 recovered outside control limits for the following analytes: 1-Naphthylamine, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Nitroaniline, alpha,alpha-Dimethyl phenethylamine, Hexachloropropene, Isosafrole Peak 2, N-Nitro-o-toluidine, N-Nitrosodimethylamine and p-Phenylene diamine. The associated sample was re-prepared and/or re-analyzed outside holding time.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: MW-34DR (860-74003-3). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-33-D (860-74003-13) and DUPE-02 (860-74003-14). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The continuing calibration verification (CCV) associated with batch 860-161812 recovered above the upper control limit for Hexachloroethane Nitrobenzene-d5 (Surr), 1,3-Dinitrobenzene and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-161812/2).

Method 8270E\_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-34DR (860-74003-3). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The following sample was re-prepared outside of preparation holding time due to initial analysis method blank Benzyl alcohol contamination: MW-34DR (860-74003-3).

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: MW-34DR (860-74003-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 860-160178 and analytical batch 860-160913. The associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 8270E\_QQQ: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 860-161375 and analytical batch 860-161549. The associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74003-1

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## Job ID: 860-74003-1 (Continued)

**Eurofins Houston**

Method 8270E\_QQQ: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-160178 and analytical batch 860-160913 were outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Client Sample ID: MW-34-SR

## Lab Sample ID: 860-74003-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.215	J I	2.86	0.104	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol - RE	0.192	J H	0.571	0.140	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	0.766	J H B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether - RE	1.00	H	0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl - RE	0.438	J H	0.571	0.0981	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-129-S

## Lab Sample ID: 860-74003-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.212	J	2.86	0.104	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-34DR

## Lab Sample ID: 860-74003-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.213	J	2.86	0.104	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0132	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Dibenzofuran	0.127	J	0.571	0.107	ug/L	1		8270E	Total/NA
Phenol	1.02	J	2.86	0.448	ug/L	1		8270E	Total/NA
Diphenyl ether - DL	114		11.4	1.82	ug/L	20		8270E	Total/NA
1,1'-Biphenyl - DL	44.9		11.4	1.96	ug/L	20		8270E	Total/NA
2,4-Dichlorophenol - RE	0.193	J H	0.571	0.140	ug/L	1		8270E	Total/NA
Benzo[a]anthracene - RE	0.0171	J H I	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	0.715	J H I B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran - RE	0.160	J H	0.571	0.107	ug/L	1		8270E	Total/NA
Phenol - RE	0.834	J H	2.86	0.448	ug/L	1		8270E	Total/NA
Diphenyl ether - REDL	99.8	H	11.4	1.82	ug/L	20		8270E	Total/NA
1,1'-Biphenyl - REDL	47.0	H	11.4	1.96	ug/L	20		8270E	Total/NA

## Client Sample ID: MW-129-D

## Lab Sample ID: 860-74003-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00969	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Diphenyl ether	1.55		0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.682		0.571	0.0981	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol - RE	0.172	J H	0.571	0.140	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	0.756	J H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-32-D

## Lab Sample ID: 860-74003-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0140	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.669	J	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.0995	J	0.571	0.0910	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol - RE	0.153	J H	0.571	0.140	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.04	J H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-27-D

## Lab Sample ID: 860-74003-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0122	J I B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Diphenyl ether	0.814		0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.281	J	0.571	0.0981	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol - RE	0.289	J H	0.571	0.140	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Client Sample ID: MW-27-D (Continued)

Lab Sample ID: 860-74003-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol - RE	0.757	J H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: RB-02

Lab Sample ID: 860-74003-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.212	J I	2.86	0.104	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0105	J B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.666	J	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	0.820	J H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-31-D

Lab Sample ID: 860-74003-8

No Detections.

## Client Sample ID: MW-25

Lab Sample ID: 860-74003-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.36		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.712	J	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	1.98		0.571	0.0910	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-05

Lab Sample ID: 860-74003-10

No Detections.

## Client Sample ID: MW-33-S

Lab Sample ID: 860-74003-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol	0.678	J	1.14	0.600	ug/L	1		8270E	Total/NA
Phenol	2.00	J	2.86	0.448	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	17.7		0.571	0.0981	ug/L	1		8270E	Total/NA
Diphenyl ether - DL	295		11.4	1.82	ug/L	20		8270E	Total/NA

## Client Sample ID: FB-02

Lab Sample ID: 860-74003-12

No Detections.

## Client Sample ID: MW-33-D

Lab Sample ID: 860-74003-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.610	J	5.00	0.500	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	0.879	J	1.00	0.592	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.0918	J	0.571	0.0779	ug/L	1		8270E	Total/NA
Acenaphthene	1.36	*1	0.571	0.107	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0231	J I B **	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.779	J	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	7.23		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.463	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	2.41		0.571	0.0944	ug/L	1		8270E	Total/NA
Phenanthrene	0.418	J	0.571	0.134	ug/L	1		8270E	Total/NA
Phenol - DL	26.5	J	57.1	8.96	ug/L	20		8270E	Total/NA
Diphenyl ether - DL2	11600		571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl - DL2	2320		571	98.1	ug/L	1000		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.533	J	5.00	0.500	ug/L	1		8260D	Total/NA
Chlorobenzene	0.550	J	1.00	0.455	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	0.839	J	1.00	0.592	ug/L	1		8260D	Total/NA
2,4-Dinitrophenol	0.292	J I	2.86	0.104	ug/L	1		8270E	Total/NA
Acenaphthene	1.40	*1	0.571	0.107	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0101	J B *+	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.771	J I	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	7.11		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.463	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	2.41		0.571	0.0944	ug/L	1		8270E	Total/NA
Phenanthrene	0.443	J	0.571	0.134	ug/L	1		8270E	Total/NA
Phenol - DL	25.2	J	57.1	8.96	ug/L	20		8270E	Total/NA
Diphenyl ether - DL2	12500		571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl - DL2	2640		571	98.1	ug/L	1000		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/15/24 22:43	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/15/24 22:43	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/15/24 22:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/15/24 22:43	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/15/24 22:43	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/15/24 22:43	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/15/24 22:43	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/15/24 22:43	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/15/24 22:43	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/15/24 22:43	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/15/24 22:43	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/15/24 22:43	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/15/24 22:43	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/15/24 22:43	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/15/24 22:43	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/15/24 22:43	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/15/24 22:43	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/15/24 22:43	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/15/24 22:43	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/15/24 22:43	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/15/24 22:43	1
Acetone	<3.07	U	100	3.07	ug/L			05/15/24 22:43	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/15/24 22:43	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/15/24 22:43	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/15/24 22:43	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/15/24 22:43	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/15/24 22:43	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/15/24 22:43	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/15/24 22:43	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/15/24 22:43	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/15/24 22:43	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/15/24 22:43	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/15/24 22:43	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/15/24 22:43	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/15/24 22:43	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/15/24 22:43	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/15/24 22:43	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/15/24 22:43	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/15/24 22:43	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/15/24 22:43	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/15/24 22:43	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/15/24 22:43	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/15/24 22:43	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/15/24 22:43	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/15/24 22:43	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/15/24 22:43	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/15/24 22:43	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/15/24 22:43	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/15/24 22:43	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/15/24 22:43	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/15/24 22:43	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/15/24 22:43	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/15/24 22:43	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/15/24 22:43	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/15/24 22:43	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/15/24 22:43	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/15/24 22:43	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/15/24 22:43	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/15/24 22:43	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/15/24 22:43	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/15/24 22:43	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/15/24 22:43	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/15/24 22:43	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/15/24 22:43	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/15/24 22:43	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/15/24 22:43	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/15/24 22:43	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/15/24 22:43	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/15/24 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/15/24 22:43	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/15/24 22:43	1
Dibromofluoromethane (Surr)	98		75 - 131		05/15/24 22:43	1
Toluene-d8 (Surr)	100		80 - 120		05/15/24 22:43	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 20:44	1
<b>2,4-Dinitrophenol</b>	<b>0.215</b>	<b>J I</b>	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 20:44	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 20:44	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 20:44	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 20:44	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 20:44	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 20:44	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 20:44	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 20:44	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 20:44	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 20:44	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 20:44	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 20:44	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 20:44	1
Benzo[a]anthracene	<0.0286	U **	0.0286	0.0286	ug/L		05/14/24 14:39	05/17/24 20:44	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 20:44	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 20:44	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 20:44	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 20:44	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 20:44	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 20:44	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 20:44	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 20:44	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 20:44	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 20:44	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 20:44	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 20:44	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 20:44	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 20:44	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 20:44	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 20:44	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 20:44	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 20:44	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 20:44	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 20:44	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 20:44	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 20:44	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 20:44	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 20:44	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 20:44	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 20:44	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 20:44	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 20:44	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 20:44	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 20:44	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 20:44	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 20:44	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 20:44	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 20:44	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 20:44	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 20:44	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 20:44	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 20:44	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 20:44	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 20:44	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 20:44	1
3,3'-Dimethylbenzidine	<0.142	U * -	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 20:44	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 20:44	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 20:44	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 20:44	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 20:44	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 20:44	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 20:44	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 20:44	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 20:44	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 20:44	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 20:44	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 20:44	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 20:44	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 20:44	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 20:44	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 20:44	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 20:44	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 20:44	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 20:44	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 20:44	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 20:44	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 20:44	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 20:44	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 20:44	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 20:44	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 20:44	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 20:44	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 20:44	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 20:44	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 20:44	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 20:44	1
Pronamide	<0.100	U *	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 20:44	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 20:44	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 20:44	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 20:44	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	133	S1+	35 - 130				05/14/24 14:39	05/17/24 20:44	1
2-Fluorobiphenyl	129		43 - 130				05/14/24 14:39	05/17/24 20:44	1
2-Fluorophenol (Surr)	103		19 - 120				05/14/24 14:39	05/17/24 20:44	1
Nitrobenzene-d5 (Surr)	146	S1+	37 - 133				05/14/24 14:39	05/17/24 20:44	1
Phenol-d5 (Surr)	72		8 - 124				05/14/24 14:39	05/17/24 20:44	1
p-Terphenyl-d14	115		47 - 130				05/14/24 14:39	05/17/24 20:44	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/21/24 06:20	05/22/24 12:17	1
<b>2,4-Dichlorophenol</b>	<b>0.192</b>	<b>J H</b>	0.571	0.140	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/21/24 06:20	05/22/24 12:17	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/21/24 06:20	05/22/24 12:17	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/21/24 06:20	05/22/24 12:17	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Nitroaniline	<0.109	U H *	0.571	0.109	ug/L		05/21/24 06:20	05/22/24 12:17	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 12:17	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/21/24 06:20	05/22/24 12:17	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/21/24 06:20	05/22/24 12:17	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/21/24 06:20	05/22/24 12:17	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/21/24 06:20	05/22/24 12:17	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/21/24 06:20	05/22/24 12:17	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/21/24 06:20	05/22/24 12:17	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/21/24 06:20	05/22/24 12:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/21/24 06:20	05/22/24 12:17	1
<b>Benzyl alcohol</b>	<b>0.766</b>	<b>J H B</b>	1.14	0.600	ug/L		05/21/24 06:20	05/22/24 12:17	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/21/24 06:20	05/22/24 12:17	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/21/24 06:20	05/22/24 12:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/21/24 06:20	05/22/24 12:17	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 12:17	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/21/24 06:20	05/22/24 12:17	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/21/24 06:20	05/22/24 12:17	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 12:17	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/21/24 06:20	05/22/24 12:17	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/21/24 06:20	05/22/24 12:17	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/21/24 06:20	05/22/24 12:17	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/21/24 06:20	05/22/24 12:17	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/21/24 06:20	05/22/24 12:17	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/21/24 06:20	05/22/24 12:17	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/21/24 06:20	05/22/24 12:17	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/21/24 06:20	05/22/24 12:17	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/21/24 06:20	05/22/24 12:17	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 12:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:17	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 12:17	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/21/24 06:20	05/22/24 12:17	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/21/24 06:20	05/22/24 12:17	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/21/24 06:20	05/22/24 12:17	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/21/24 06:20	05/22/24 12:17	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/21/24 06:20	05/22/24 12:17	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/21/24 06:20	05/22/24 12:17	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitro-o-toluidine	<0.520	U H *	1.14	0.520	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/21/24 06:20	05/22/24 12:17	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/21/24 06:20	05/22/24 12:17	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/21/24 06:20	05/22/24 12:17	1
<b>Diphenyl ether</b>	<b>1.00</b>	<b>H</b>	0.571	0.0910	ug/L		05/21/24 06:20	05/22/24 12:17	1
<b>1,1'-Biphenyl</b>	<b>0.438</b>	<b>J H</b>	0.571	0.0981	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H	0.571	0.0957	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/21/24 06:20	05/22/24 12:17	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/21/24 06:20	05/22/24 12:17	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 12:17	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Acetylaminofluorene	<1.26	U H	2.86	1.26	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/21/24 06:20	05/22/24 12:17	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/21/24 06:20	05/22/24 12:17	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34-SR**

**Lab Sample ID: 860-74003-1**

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/21/24 06:20	05/22/24 12:17	1
3,3'-Dimethylbenzidine	<0.142	U H *	0.571	0.142	ug/L		05/21/24 06:20	05/22/24 12:17	1
3-Methylcholanthrene	<0.104	U H *	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 12:17	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/21/24 06:20	05/22/24 12:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 12:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *	5.71	3.67	ug/L		05/21/24 06:20	05/22/24 12:17	1
Aramite Peak 1	<0.0785	U H	0.571	0.0785	ug/L		05/21/24 06:20	05/22/24 12:17	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 12:17	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 12:17	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 12:17	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 12:17	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 12:17	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/21/24 06:20	05/22/24 12:17	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/21/24 06:20	05/22/24 12:17	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/21/24 06:20	05/22/24 12:17	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/21/24 06:20	05/22/24 12:17	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/21/24 06:20	05/22/24 12:17	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/21/24 06:20	05/22/24 12:17	1
Hexachloropropene	<0.300	U H *	0.571	0.300	ug/L		05/21/24 06:20	05/22/24 12:17	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 12:17	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/21/24 06:20	05/22/24 12:17	1
Isosafrole Peak 2	<0.241	U H *	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 12:17	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/21/24 06:20	05/22/24 12:17	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/21/24 06:20	05/22/24 12:17	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosodimethylamine	<0.100	U H *	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/21/24 06:20	05/22/24 12:17	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/21/24 06:20	05/22/24 12:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/21/24 06:20	05/22/24 12:17	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/21/24 06:20	05/22/24 12:17	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:17	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:17	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/21/24 06:20	05/22/24 12:17	1
p-Phenylene diamine	<0.500	U H *	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 12:17	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:17	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/21/24 06:20	05/22/24 12:17	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/21/24 06:20	05/22/24 12:17	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/21/24 06:20	05/22/24 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		35 - 130	05/21/24 06:20	05/22/24 12:17	1
2-Fluorobiphenyl	98		43 - 130	05/21/24 06:20	05/22/24 12:17	1
2-Fluorophenol (Surr)	74		19 - 120	05/21/24 06:20	05/22/24 12:17	1
Nitrobenzene-d5 (Surr)	109		37 - 133	05/21/24 06:20	05/22/24 12:17	1
Phenol-d5 (Surr)	50		8 - 124	05/21/24 06:20	05/22/24 12:17	1
p-Terphenyl-d14	85		47 - 130	05/21/24 06:20	05/22/24 12:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-S**

**Lab Sample ID: 860-74003-2**

Date Collected: 05/09/24 08:40

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/15/24 23:04	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/15/24 23:04	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/15/24 23:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/15/24 23:04	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/15/24 23:04	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/15/24 23:04	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/15/24 23:04	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/15/24 23:04	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/15/24 23:04	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/15/24 23:04	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/15/24 23:04	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/15/24 23:04	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/15/24 23:04	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/15/24 23:04	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/15/24 23:04	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/15/24 23:04	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/15/24 23:04	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/15/24 23:04	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/15/24 23:04	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/15/24 23:04	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/15/24 23:04	1
Acetone	<3.07	U	100	3.07	ug/L			05/15/24 23:04	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/15/24 23:04	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/15/24 23:04	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/15/24 23:04	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/15/24 23:04	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/15/24 23:04	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/15/24 23:04	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/15/24 23:04	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/15/24 23:04	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/15/24 23:04	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/15/24 23:04	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/15/24 23:04	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/15/24 23:04	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/15/24 23:04	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/15/24 23:04	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/15/24 23:04	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/15/24 23:04	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/15/24 23:04	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/15/24 23:04	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/15/24 23:04	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/15/24 23:04	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/15/24 23:04	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/15/24 23:04	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/15/24 23:04	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/15/24 23:04	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/15/24 23:04	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/15/24 23:04	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/15/24 23:04	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-S**

**Lab Sample ID: 860-74003-2**

Date Collected: 05/09/24 08:40

Matrix: Water

Date Received: 05/10/24 09:50

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/15/24 23:04	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/15/24 23:04	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/15/24 23:04	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/15/24 23:04	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/15/24 23:04	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/15/24 23:04	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/15/24 23:04	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/15/24 23:04	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/15/24 23:04	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/15/24 23:04	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/15/24 23:04	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/15/24 23:04	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/15/24 23:04	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/15/24 23:04	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/15/24 23:04	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/15/24 23:04	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/15/24 23:04	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/15/24 23:04	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/15/24 23:04	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/15/24 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/15/24 23:04	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/15/24 23:04	1
Dibromofluoromethane (Surr)	97		75 - 131		05/15/24 23:04	1
Toluene-d8 (Surr)	100		80 - 120		05/15/24 23:04	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 21:14	1
<b>2,4-Dinitrophenol</b>	<b>0.212</b>	<b>J</b>	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 21:14	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 21:14	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 21:14	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 21:14	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-S**

**Lab Sample ID: 860-74003-2**

Date Collected: 05/09/24 08:40

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:14	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 21:14	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 21:14	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 21:14	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 21:14	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 21:14	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 21:14	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 21:14	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 21:14	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 21:14	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 21:14	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 21:14	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 21:14	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 21:14	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 21:14	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 21:14	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 21:14	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 21:14	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 21:14	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 21:14	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 21:14	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 21:14	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 21:14	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 21:14	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 21:14	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 21:14	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 21:14	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 21:14	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 21:14	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 21:14	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 21:14	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 21:14	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:14	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 21:14	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 21:14	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 21:14	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 21:14	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 21:14	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 21:14	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 21:14	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 21:14	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 21:14	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 21:14	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 21:14	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-S**

**Lab Sample ID: 860-74003-2**

Date Collected: 05/09/24 08:40

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 21:14	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 21:14	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 21:14	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 21:14	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 21:14	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 21:14	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 21:14	1
3,3'-Dimethylbenzidine	<0.142	U * -	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 21:14	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 21:14	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 21:14	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 21:14	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 21:14	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 21:14	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 21:14	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 21:14	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 21:14	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 21:14	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 21:14	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 21:14	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 21:14	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 21:14	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 21:14	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 21:14	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 21:14	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 21:14	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 21:14	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 21:14	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 21:14	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 21:14	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 21:14	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 21:14	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 21:14	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 21:14	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 21:14	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:14	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:14	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 21:14	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-S**

**Lab Sample ID: 860-74003-2**

Date Collected: 05/09/24 08:40

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 21:14	1
Pronamide	<0.100	U *+	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:14	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 21:14	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 21:14	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	135	S1+	35 - 130	05/14/24 14:39	05/17/24 21:14	1
2-Fluorobiphenyl	128		43 - 130	05/14/24 14:39	05/17/24 21:14	1
2-Fluorophenol (Surr)	107		19 - 120	05/14/24 14:39	05/17/24 21:14	1
Nitrobenzene-d5 (Surr)	151	S1+	37 - 133	05/14/24 14:39	05/17/24 21:14	1
Phenol-d5 (Surr)	74		8 - 124	05/14/24 14:39	05/17/24 21:14	1
p-Terphenyl-d14	116		47 - 130	05/14/24 14:39	05/17/24 21:14	1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/15/24 23:24	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/15/24 23:24	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/15/24 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/15/24 23:24	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/15/24 23:24	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/15/24 23:24	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/15/24 23:24	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/15/24 23:24	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/15/24 23:24	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/15/24 23:24	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/15/24 23:24	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/15/24 23:24	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/15/24 23:24	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/15/24 23:24	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/15/24 23:24	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/15/24 23:24	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/15/24 23:24	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/15/24 23:24	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/15/24 23:24	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/15/24 23:24	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/15/24 23:24	1
Acetone	<3.07	U	100	3.07	ug/L			05/15/24 23:24	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/15/24 23:24	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/15/24 23:24	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/15/24 23:24	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/15/24 23:24	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/15/24 23:24	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/15/24 23:24	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/15/24 23:24	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/15/24 23:24	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/15/24 23:24	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/15/24 23:24	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/15/24 23:24	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/15/24 23:24	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/15/24 23:24	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/15/24 23:24	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/15/24 23:24	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/15/24 23:24	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/15/24 23:24	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/15/24 23:24	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/15/24 23:24	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/15/24 23:24	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/15/24 23:24	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/15/24 23:24	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/15/24 23:24	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/15/24 23:24	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/15/24 23:24	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/15/24 23:24	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/15/24 23:24	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/15/24 23:24	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/15/24 23:24	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/15/24 23:24	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/15/24 23:24	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/15/24 23:24	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/15/24 23:24	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/15/24 23:24	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/15/24 23:24	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/15/24 23:24	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/15/24 23:24	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/15/24 23:24	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/15/24 23:24	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/15/24 23:24	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/15/24 23:24	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/15/24 23:24	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/15/24 23:24	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/15/24 23:24	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/15/24 23:24	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/15/24 23:24	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/15/24 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/15/24 23:24	1
4-Bromofluorobenzene (Surr)	102		74 - 124		05/15/24 23:24	1
Dibromofluoromethane (Surr)	96		75 - 131		05/15/24 23:24	1
Toluene-d8 (Surr)	100		80 - 120		05/15/24 23:24	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 21:44	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 21:44	1
<b>2,4-Dinitrophenol</b>	<b>0.213</b>	<b>J</b>	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 21:44	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 21:44	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 21:44	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 21:44	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 21:44	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 21:44	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 21:44	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 21:44	1
<b>Benzo[a]anthracene</b>	<b>0.0132</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 21:44	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 21:44	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 21:44	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 21:44	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 21:44	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 21:44	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 21:44	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 21:44	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 21:44	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 21:44	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 21:44	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 21:44	1
<b>Dibenzofuran</b>	<b>0.127</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 21:44	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 21:44	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 21:44	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 21:44	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 21:44	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 21:44	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 21:44	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 21:44	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 21:44	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 21:44	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 21:44	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:44	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 21:44	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 21:44	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 21:44	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 21:44	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 21:44	1
<b>Phenol</b>	<b>1.02</b>	<b>J</b>	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 21:44	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 21:44	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 21:44	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 21:44	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 21:44	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 21:44	1
1-Naphthylamine	<0.149	U *- *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 21:44	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 21:44	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 21:44	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 21:44	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 21:44	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 21:44	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 21:44	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 21:44	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 21:44	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 21:44	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 21:44	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 21:44	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 21:44	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 21:44	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 21:44	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 21:44	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 21:44	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 21:44	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 21:44	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 21:44	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 21:44	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 21:44	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 21:44	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 21:44	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 21:44	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 21:44	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 21:44	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 21:44	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 21:44	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 21:44	1
p-Dimethylamino azobenzene	<0.0238	U * *	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 21:44	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:44	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:44	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 21:44	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 21:44	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 21:44	1
Safrole, Total	<0.0571	U * 1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 21:44	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 21:44	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	123		35 - 130	05/14/24 14:39	05/17/24 21:44	1
2-Fluorobiphenyl	119		43 - 130	05/14/24 14:39	05/17/24 21:44	1
2-Fluorophenol (Surr)	104		19 - 120	05/14/24 14:39	05/17/24 21:44	1
Nitrobenzene-d5 (Surr)	141	S1+	37 - 133	05/14/24 14:39	05/17/24 21:44	1
Phenol-d5 (Surr)	75		8 - 124	05/14/24 14:39	05/17/24 21:44	1
p-Terphenyl-d14	133	S1+	47 - 130	05/14/24 14:39	05/17/24 21:44	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	114		11.4	1.82	ug/L		05/14/24 14:39	05/20/24 16:33	20
1,1'-Biphenyl	44.9		11.4	1.96	ug/L		05/14/24 14:39	05/20/24 16:33	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	147	S1+	35 - 130	05/14/24 14:39	05/20/24 16:33	20
2-Fluorobiphenyl	156	S1+	43 - 130	05/14/24 14:39	05/20/24 16:33	20
2-Fluorophenol (Surr)	229	S1+	19 - 120	05/14/24 14:39	05/20/24 16:33	20
Nitrobenzene-d5 (Surr)	163	S1+	37 - 133	05/14/24 14:39	05/20/24 16:33	20
Phenol-d5 (Surr)	206	S1+	8 - 124	05/14/24 14:39	05/20/24 16:33	20
p-Terphenyl-d14	160	S1+	47 - 130	05/14/24 14:39	05/20/24 16:33	20

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/21/24 06:20	05/22/24 12:46	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/21/24 06:20	05/22/24 12:46	1
<b>2,4-Dichlorophenol</b>	<b>0.193</b>	<b>J H</b>	0.571	0.140	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/21/24 06:20	05/22/24 12:46	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/21/24 06:20	05/22/24 12:46	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/21/24 06:20	05/22/24 12:46	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Nitroaniline	<0.109	U H *	0.571	0.109	ug/L		05/21/24 06:20	05/22/24 12:46	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 12:46	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/21/24 06:20	05/22/24 12:46	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/21/24 06:20	05/22/24 12:46	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/21/24 06:20	05/22/24 12:46	1
<b>Benzo[a]anthracene</b>	<b>0.0171</b>	<b>J H I</b>	0.0286	0.00953	ug/L		05/21/24 06:20	05/22/24 12:46	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/21/24 06:20	05/22/24 12:46	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/21/24 06:20	05/22/24 12:46	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/21/24 06:20	05/22/24 12:46	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/21/24 06:20	05/22/24 12:46	1
<b>Benzyl alcohol</b>	<b>0.715</b>	<b>J H I B</b>	1.14	0.600	ug/L		05/21/24 06:20	05/22/24 12:46	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/21/24 06:20	05/22/24 12:46	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/21/24 06:20	05/22/24 12:46	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/21/24 06:20	05/22/24 12:46	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 12:46	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/21/24 06:20	05/22/24 12:46	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/21/24 06:20	05/22/24 12:46	1
<b>Dibenzofuran</b>	<b>0.160</b>	<b>J H</b>	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 12:46	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/21/24 06:20	05/22/24 12:46	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/21/24 06:20	05/22/24 12:46	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/21/24 06:20	05/22/24 12:46	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/21/24 06:20	05/22/24 12:46	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/21/24 06:20	05/22/24 12:46	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/21/24 06:20	05/22/24 12:46	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/21/24 06:20	05/22/24 12:46	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/21/24 06:20	05/22/24 12:46	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/21/24 06:20	05/22/24 12:46	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 12:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:46	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 12:46	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/21/24 06:20	05/22/24 12:46	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/21/24 06:20	05/22/24 12:46	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/21/24 06:20	05/22/24 12:46	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/21/24 06:20	05/22/24 12:46	1
<b>Phenol</b>	<b>0.834</b>	<b>J H</b>	2.86	0.448	ug/L		05/21/24 06:20	05/22/24 12:46	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/21/24 06:20	05/22/24 12:46	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitro-o-toluidine	<0.520	U H *-	1.14	0.520	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/21/24 06:20	05/22/24 12:46	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/21/24 06:20	05/22/24 12:46	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H	0.571	0.0957	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/21/24 06:20	05/22/24 12:46	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/21/24 06:20	05/22/24 12:46	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 12:46	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Acetylaminofluorene	<1.26	U H	2.86	1.26	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/21/24 06:20	05/22/24 12:46	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/21/24 06:20	05/22/24 12:46	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/21/24 06:20	05/22/24 12:46	1
3,3'-Dimethylbenzidine	<0.142	U H *-	0.571	0.142	ug/L		05/21/24 06:20	05/22/24 12:46	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 12:46	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/21/24 06:20	05/22/24 12:46	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 12:46	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *-	5.71	3.67	ug/L		05/21/24 06:20	05/22/24 12:46	1
Aramite Peak 1	<0.0785	U H	0.571	0.0785	ug/L		05/21/24 06:20	05/22/24 12:46	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 12:46	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 12:46	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 12:46	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 12:46	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 12:46	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/21/24 06:20	05/22/24 12:46	1
Dinoseb	<0.570	U *+ H	0.571	0.570	ug/L		05/21/24 06:20	05/22/24 12:46	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/21/24 06:20	05/22/24 12:46	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/21/24 06:20	05/22/24 12:46	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/21/24 06:20	05/22/24 12:46	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/21/24 06:20	05/22/24 12:46	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/21/24 06:20	05/22/24 12:46	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 12:46	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/21/24 06:20	05/22/24 12:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-34DR**

**Lab Sample ID: 860-74003-3**

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole Peak 2	<0.241	U H *-	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 12:46	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/21/24 06:20	05/22/24 12:46	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/21/24 06:20	05/22/24 12:46	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosodimethylamine	<0.100	U H *-	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/21/24 06:20	05/22/24 12:46	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/21/24 06:20	05/22/24 12:46	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/21/24 06:20	05/22/24 12:46	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/21/24 06:20	05/22/24 12:46	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:46	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:46	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/21/24 06:20	05/22/24 12:46	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 12:46	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 12:46	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/21/24 06:20	05/22/24 12:46	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/21/24 06:20	05/22/24 12:46	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/21/24 06:20	05/22/24 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119		35 - 130	05/21/24 06:20	05/22/24 12:46	1
2-Fluorobiphenyl	115		43 - 130	05/21/24 06:20	05/22/24 12:46	1
2-Fluorophenol (Surr)	76		19 - 120	05/21/24 06:20	05/22/24 12:46	1
Nitrobenzene-d5 (Surr)	125		37 - 133	05/21/24 06:20	05/22/24 12:46	1
Phenol-d5 (Surr)	48		8 - 124	05/21/24 06:20	05/22/24 12:46	1
p-Terphenyl-d14	98		47 - 130	05/21/24 06:20	05/22/24 12:46	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	99.8	H	11.4	1.82	ug/L		05/21/24 06:20	05/23/24 06:13	20
1,1'-Biphenyl	47.0	H	11.4	1.96	ug/L		05/21/24 06:20	05/23/24 06:13	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	369	S1+	35 - 130	05/21/24 06:20	05/23/24 06:13	20
2-Fluorobiphenyl	162	S1+	43 - 130	05/21/24 06:20	05/23/24 06:13	20
2-Fluorophenol (Surr)	365	S1+	19 - 120	05/21/24 06:20	05/23/24 06:13	20
Nitrobenzene-d5 (Surr)	180	S1+	37 - 133	05/21/24 06:20	05/23/24 06:13	20
Phenol-d5 (Surr)	483	S1+	8 - 124	05/21/24 06:20	05/23/24 06:13	20
p-Terphenyl-d14	838	S1+	47 - 130	05/21/24 06:20	05/23/24 06:13	20

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/15/24 23:45	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/15/24 23:45	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/15/24 23:45	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

**Date Collected: 05/09/24 09:09**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/15/24 23:45	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/15/24 23:45	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/15/24 23:45	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/15/24 23:45	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/15/24 23:45	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/15/24 23:45	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/15/24 23:45	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/15/24 23:45	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/15/24 23:45	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/15/24 23:45	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/15/24 23:45	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/15/24 23:45	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/15/24 23:45	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/15/24 23:45	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/15/24 23:45	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/15/24 23:45	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/15/24 23:45	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/15/24 23:45	1
Acetone	<3.07	U	100	3.07	ug/L			05/15/24 23:45	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/15/24 23:45	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/15/24 23:45	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/15/24 23:45	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/15/24 23:45	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/15/24 23:45	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/15/24 23:45	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/15/24 23:45	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/15/24 23:45	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/15/24 23:45	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/15/24 23:45	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/15/24 23:45	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/15/24 23:45	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/15/24 23:45	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/15/24 23:45	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/15/24 23:45	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/15/24 23:45	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/15/24 23:45	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/15/24 23:45	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/15/24 23:45	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/15/24 23:45	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/15/24 23:45	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/15/24 23:45	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/15/24 23:45	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/15/24 23:45	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/15/24 23:45	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/15/24 23:45	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/15/24 23:45	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/15/24 23:45	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/15/24 23:45	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/15/24 23:45	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/15/24 23:45	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/15/24 23:45	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/15/24 23:45	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/15/24 23:45	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/15/24 23:45	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/15/24 23:45	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/15/24 23:45	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/15/24 23:45	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/15/24 23:45	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/15/24 23:45	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/15/24 23:45	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/15/24 23:45	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/15/24 23:45	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/15/24 23:45	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/15/24 23:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/15/24 23:45	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/15/24 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/15/24 23:45	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/15/24 23:45	1
Dibromofluoromethane (Surr)	97		75 - 131		05/15/24 23:45	1
Toluene-d8 (Surr)	101		80 - 120		05/15/24 23:45	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 22:13	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 22:13	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 22:13	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 22:13	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:13	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 22:13	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 22:13	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 22:13	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 22:13	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 22:13	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 22:13	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 22:13	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 22:13	1
<b>Benzo[a]anthracene</b>	<b>0.00969</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 22:13	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 22:13	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 22:13	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 22:13	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 22:13	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 22:13	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 22:13	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 22:13	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 22:13	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 22:13	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 22:13	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 22:13	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 22:13	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 22:13	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 22:13	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 22:13	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 22:13	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 22:13	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 22:13	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 22:13	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 22:13	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 22:13	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 22:13	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:13	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 22:13	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 22:13	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 22:13	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 22:13	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 22:13	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 22:13	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 22:13	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 22:13	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 22:13	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 22:13	1
<b>Diphenyl ether</b>	<b>1.55</b>		0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 22:13	1
<b>1,1'-Biphenyl</b>	<b>0.682</b>		0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 22:13	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 22:13	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 22:13	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 22:13	1
1-Naphthylamine	<0.149	U *- *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 22:13	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 22:13	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 22:13	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 22:13	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 22:13	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 22:13	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 22:13	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 22:13	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 22:13	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 22:13	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 22:13	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 22:13	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 22:13	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 22:13	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 22:13	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 22:13	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 22:13	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 22:13	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 22:13	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 22:13	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 22:13	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 22:13	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 22:13	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 22:13	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 22:13	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 22:13	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 22:13	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 22:13	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 22:13	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 22:13	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 22:13	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:13	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:13	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 22:13	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 22:13	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:13	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 22:13	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 22:13	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	130		35 - 130				05/14/24 14:39	05/17/24 22:13	1
2-Fluorobiphenyl	128		43 - 130				05/14/24 14:39	05/17/24 22:13	1
2-Fluorophenol (Surr)	105		19 - 120				05/14/24 14:39	05/17/24 22:13	1
Nitrobenzene-d5 (Surr)	158	S1+	37 - 133				05/14/24 14:39	05/17/24 22:13	1
Phenol-d5 (Surr)	72		8 - 124				05/14/24 14:39	05/17/24 22:13	1
p-Terphenyl-d14	105		47 - 130				05/14/24 14:39	05/17/24 22:13	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/21/24 06:20	05/22/24 13:16	1
<b>2,4-Dichlorophenol</b>	<b>0.172</b>	<b>J H</b>	0.571	0.140	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/21/24 06:20	05/22/24 13:16	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/21/24 06:20	05/22/24 13:16	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/21/24 06:20	05/22/24 13:16	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/21/24 06:20	05/22/24 13:16	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:16	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 13:16	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 13:16	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/21/24 06:20	05/22/24 13:16	1
4-Nitroaniline	<0.109	U H *	0.571	0.109	ug/L		05/21/24 06:20	05/22/24 13:16	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 13:16	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/21/24 06:20	05/22/24 13:16	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/21/24 06:20	05/22/24 13:16	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/21/24 06:20	05/22/24 13:16	1
Benzo[a]anthracene	<0.00953	U H	0.0286	0.00953	ug/L		05/21/24 06:20	05/22/24 13:16	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/21/24 06:20	05/22/24 13:16	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/21/24 06:20	05/22/24 13:16	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/21/24 06:20	05/22/24 13:16	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/21/24 06:20	05/22/24 13:16	1
<b>Benzyl alcohol</b>	<b>0.756</b>	<b>J H B</b>	1.14	0.600	ug/L		05/21/24 06:20	05/22/24 13:16	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/21/24 06:20	05/22/24 13:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

**Date Collected: 05/09/24 09:09**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/21/24 06:20	05/22/24 13:16	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/21/24 06:20	05/22/24 13:16	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 13:16	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/21/24 06:20	05/22/24 13:16	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/21/24 06:20	05/22/24 13:16	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 13:16	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/21/24 06:20	05/22/24 13:16	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/21/24 06:20	05/22/24 13:16	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/21/24 06:20	05/22/24 13:16	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/21/24 06:20	05/22/24 13:16	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/21/24 06:20	05/22/24 13:16	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/21/24 06:20	05/22/24 13:16	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/21/24 06:20	05/22/24 13:16	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/21/24 06:20	05/22/24 13:16	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/21/24 06:20	05/22/24 13:16	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 13:16	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:16	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 13:16	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/21/24 06:20	05/22/24 13:16	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/21/24 06:20	05/22/24 13:16	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/21/24 06:20	05/22/24 13:16	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/21/24 06:20	05/22/24 13:16	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/21/24 06:20	05/22/24 13:16	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/21/24 06:20	05/22/24 13:16	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitro-o-toluidine	<0.520	U H *	1.14	0.520	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/21/24 06:20	05/22/24 13:16	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/21/24 06:20	05/22/24 13:16	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/21/24 06:20	05/22/24 13:16	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/21/24 06:20	05/22/24 13:16	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H	0.571	0.0957	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/21/24 06:20	05/22/24 13:16	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/21/24 06:20	05/22/24 13:16	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 13:16	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Acetylaminofluorene	<1.26	U H	2.86	1.26	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/21/24 06:20	05/22/24 13:16	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/21/24 06:20	05/22/24 13:16	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/21/24 06:20	05/22/24 13:16	1
3,3'-Dimethylbenzidine	<0.142	U H *	0.571	0.142	ug/L		05/21/24 06:20	05/22/24 13:16	1
3-Methylcholanthrene	<0.104	U H *	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 13:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-129-D**

**Lab Sample ID: 860-74003-4**

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/21/24 06:20	05/22/24 13:16	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 13:16	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *-	5.71	3.67	ug/L		05/21/24 06:20	05/22/24 13:16	1
Aramite Peak 1	<0.0785	U H	0.571	0.0785	ug/L		05/21/24 06:20	05/22/24 13:16	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 13:16	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 13:16	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 13:16	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 13:16	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 13:16	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/21/24 06:20	05/22/24 13:16	1
Dinoseb	<0.570	U *+ H	0.571	0.570	ug/L		05/21/24 06:20	05/22/24 13:16	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/21/24 06:20	05/22/24 13:16	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/21/24 06:20	05/22/24 13:16	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/21/24 06:20	05/22/24 13:16	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/21/24 06:20	05/22/24 13:16	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/21/24 06:20	05/22/24 13:16	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 13:16	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/21/24 06:20	05/22/24 13:16	1
Isosafrole Peak 2	<0.241	U H *-	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 13:16	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/21/24 06:20	05/22/24 13:16	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/21/24 06:20	05/22/24 13:16	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosodimethylamine	<0.100	U H *-	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/21/24 06:20	05/22/24 13:16	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/21/24 06:20	05/22/24 13:16	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/21/24 06:20	05/22/24 13:16	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/21/24 06:20	05/22/24 13:16	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:16	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:16	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/21/24 06:20	05/22/24 13:16	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 13:16	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:16	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/21/24 06:20	05/22/24 13:16	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/21/24 06:20	05/22/24 13:16	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/21/24 06:20	05/22/24 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	118		35 - 130	05/21/24 06:20	05/22/24 13:16	1
2-Fluorobiphenyl	104		43 - 130	05/21/24 06:20	05/22/24 13:16	1
2-Fluorophenol (Surr)	83		19 - 120	05/21/24 06:20	05/22/24 13:16	1
Nitrobenzene-d5 (Surr)	112		37 - 133	05/21/24 06:20	05/22/24 13:16	1
Phenol-d5 (Surr)	56		8 - 124	05/21/24 06:20	05/22/24 13:16	1
p-Terphenyl-d14	90		47 - 130	05/21/24 06:20	05/22/24 13:16	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 00:05	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 00:05	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 00:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 00:05	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 00:05	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 00:05	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 00:05	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 00:05	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 00:05	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 00:05	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 00:05	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 00:05	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 00:05	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 00:05	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 00:05	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 00:05	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 00:05	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 00:05	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 00:05	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 00:05	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 00:05	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 00:05	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 00:05	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 00:05	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 00:05	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 00:05	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 00:05	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 00:05	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 00:05	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 00:05	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 00:05	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 00:05	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 00:05	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 00:05	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 00:05	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 00:05	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 00:05	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 00:05	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 00:05	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 00:05	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 00:05	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 00:05	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 00:05	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 00:05	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 00:05	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 00:05	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 00:05	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 00:05	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 00:05	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

**Date Collected: 05/09/24 10:09**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 00:05	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 00:05	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 00:05	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 00:05	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 00:05	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 00:05	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 00:05	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 00:05	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 00:05	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 00:05	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 00:05	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 00:05	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 00:05	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 00:05	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 00:05	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 00:05	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 00:05	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 00:05	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 00:05	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/16/24 00:05	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/16/24 00:05	1
Dibromofluoromethane (Surr)	98		75 - 131		05/16/24 00:05	1
Toluene-d8 (Surr)	101		80 - 120		05/16/24 00:05	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 22:43	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 22:43	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 22:43	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 22:43	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:43	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 22:43	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 22:43	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 22:43	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 22:43	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 22:43	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 22:43	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 22:43	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 22:43	1
<b>Benzo[a]anthracene</b>	<b>0.0140</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 22:43	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 22:43	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 22:43	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 22:43	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 22:43	1
<b>Benzyl alcohol</b>	<b>0.669</b>	<b>J</b>	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 22:43	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 22:43	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 22:43	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 22:43	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 22:43	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 22:43	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 22:43	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 22:43	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 22:43	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 22:43	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 22:43	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 22:43	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 22:43	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 22:43	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 22:43	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 22:43	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 22:43	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 22:43	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:43	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 22:43	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 22:43	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 22:43	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 22:43	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 22:43	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 22:43	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 22:43	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 22:43	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 22:43	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 22:43	1
<b>Diphenyl ether</b>	<b>0.0995</b>	<b>J</b>	0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 22:43	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 22:43	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 22:43	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 22:43	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 22:43	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 22:43	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 22:43	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 22:43	1
3,3'-Dimethylbenzidine	<0.142	U * -	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 22:43	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 22:43	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 22:43	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 22:43	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 22:43	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 22:43	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 22:43	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 22:43	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 22:43	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 22:43	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 22:43	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 22:43	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 22:43	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 22:43	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 22:43	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 22:43	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 22:43	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 22:43	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 22:43	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 22:43	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 22:43	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 22:43	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 22:43	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 22:43	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 22:43	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 22:43	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 22:43	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:43	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:43	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 22:43	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 22:43	1
Pronamide	<0.100	U *	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 22:43	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 22:43	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 22:43	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	120		35 - 130	05/14/24 14:39	05/17/24 22:43	1
2-Fluorobiphenyl	121		43 - 130	05/14/24 14:39	05/17/24 22:43	1
2-Fluorophenol (Surr)	110		19 - 120	05/14/24 14:39	05/17/24 22:43	1
Nitrobenzene-d5 (Surr)	136	S1+	37 - 133	05/14/24 14:39	05/17/24 22:43	1
Phenol-d5 (Surr)	82		8 - 124	05/14/24 14:39	05/17/24 22:43	1
p-Terphenyl-d14	130		47 - 130	05/14/24 14:39	05/17/24 22:43	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/21/24 06:20	05/22/24 13:45	1
<b>2,4-Dichlorophenol</b>	<b>0.153</b>	<b>J H</b>	0.571	0.140	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/21/24 06:20	05/22/24 13:45	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/21/24 06:20	05/22/24 13:45	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/21/24 06:20	05/22/24 13:45	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Nitroaniline	<0.109	U H *	0.571	0.109	ug/L		05/21/24 06:20	05/22/24 13:45	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 13:45	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/21/24 06:20	05/22/24 13:45	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/21/24 06:20	05/22/24 13:45	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/21/24 06:20	05/22/24 13:45	1
Benzo[a]anthracene	<0.00953	U H	0.0286	0.00953	ug/L		05/21/24 06:20	05/22/24 13:45	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/21/24 06:20	05/22/24 13:45	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/21/24 06:20	05/22/24 13:45	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/21/24 06:20	05/22/24 13:45	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/21/24 06:20	05/22/24 13:45	1
<b>BenzyI alcohol</b>	<b>1.04</b>	<b>J H B</b>	1.14	0.600	ug/L		05/21/24 06:20	05/22/24 13:45	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/21/24 06:20	05/22/24 13:45	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/21/24 06:20	05/22/24 13:45	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/21/24 06:20	05/22/24 13:45	1
Butyl benzyI phthalate	<0.500	U H	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 13:45	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/21/24 06:20	05/22/24 13:45	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/21/24 06:20	05/22/24 13:45	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 13:45	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/21/24 06:20	05/22/24 13:45	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/21/24 06:20	05/22/24 13:45	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/21/24 06:20	05/22/24 13:45	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/21/24 06:20	05/22/24 13:45	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/21/24 06:20	05/22/24 13:45	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/21/24 06:20	05/22/24 13:45	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/21/24 06:20	05/22/24 13:45	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/21/24 06:20	05/22/24 13:45	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/21/24 06:20	05/22/24 13:45	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 13:45	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:45	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 13:45	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/21/24 06:20	05/22/24 13:45	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/21/24 06:20	05/22/24 13:45	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/21/24 06:20	05/22/24 13:45	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/21/24 06:20	05/22/24 13:45	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/21/24 06:20	05/22/24 13:45	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/21/24 06:20	05/22/24 13:45	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitro-o-toluidine	<0.520	U H *-	1.14	0.520	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/21/24 06:20	05/22/24 13:45	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/21/24 06:20	05/22/24 13:45	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/21/24 06:20	05/22/24 13:45	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H	0.571	0.0957	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/21/24 06:20	05/22/24 13:45	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/21/24 06:20	05/22/24 13:45	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 13:45	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Acetylaminofluorene	<1.26	U H	2.86	1.26	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/21/24 06:20	05/22/24 13:45	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/21/24 06:20	05/22/24 13:45	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-32-D**

**Lab Sample ID: 860-74003-5**

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/21/24 06:20	05/22/24 13:45	1
3,3'-Dimethylbenzidine	<0.142	U H *	0.571	0.142	ug/L		05/21/24 06:20	05/22/24 13:45	1
3-Methylcholanthrene	<0.104	U H *	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 13:45	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/21/24 06:20	05/22/24 13:45	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 13:45	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *	5.71	3.67	ug/L		05/21/24 06:20	05/22/24 13:45	1
Aramite Peak 1	<0.0785	U H	0.571	0.0785	ug/L		05/21/24 06:20	05/22/24 13:45	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 13:45	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 13:45	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 13:45	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 13:45	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 13:45	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/21/24 06:20	05/22/24 13:45	1
Dinoseb	<0.570	U *+ H	0.571	0.570	ug/L		05/21/24 06:20	05/22/24 13:45	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/21/24 06:20	05/22/24 13:45	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/21/24 06:20	05/22/24 13:45	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/21/24 06:20	05/22/24 13:45	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/21/24 06:20	05/22/24 13:45	1
Hexachloropropene	<0.300	U H *	0.571	0.300	ug/L		05/21/24 06:20	05/22/24 13:45	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 13:45	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/21/24 06:20	05/22/24 13:45	1
Isosafrole Peak 2	<0.241	U H *	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 13:45	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/21/24 06:20	05/22/24 13:45	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/21/24 06:20	05/22/24 13:45	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosodimethylamine	<0.100	U H *	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/21/24 06:20	05/22/24 13:45	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/21/24 06:20	05/22/24 13:45	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/21/24 06:20	05/22/24 13:45	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/21/24 06:20	05/22/24 13:45	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:45	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:45	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/21/24 06:20	05/22/24 13:45	1
p-Phenylene diamine	<0.500	U H *	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 13:45	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 13:45	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/21/24 06:20	05/22/24 13:45	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/21/24 06:20	05/22/24 13:45	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/21/24 06:20	05/22/24 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		35 - 130	05/21/24 06:20	05/22/24 13:45	1
2-Fluorobiphenyl	97		43 - 130	05/21/24 06:20	05/22/24 13:45	1
2-Fluorophenol (Surr)	83		19 - 120	05/21/24 06:20	05/22/24 13:45	1
Nitrobenzene-d5 (Surr)	103		37 - 133	05/21/24 06:20	05/22/24 13:45	1
Phenol-d5 (Surr)	63		8 - 124	05/21/24 06:20	05/22/24 13:45	1
p-Terphenyl-d14	91		47 - 130	05/21/24 06:20	05/22/24 13:45	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/15/24 22:22	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/15/24 22:22	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/15/24 22:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/15/24 22:22	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/15/24 22:22	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/15/24 22:22	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/15/24 22:22	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/15/24 22:22	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/15/24 22:22	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/15/24 22:22	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/15/24 22:22	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/15/24 22:22	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/15/24 22:22	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/15/24 22:22	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/15/24 22:22	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/15/24 22:22	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/15/24 22:22	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/15/24 22:22	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/15/24 22:22	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/15/24 22:22	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/15/24 22:22	1
Acetone	<3.07	U	100	3.07	ug/L			05/15/24 22:22	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/15/24 22:22	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/15/24 22:22	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/15/24 22:22	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/15/24 22:22	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/15/24 22:22	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/15/24 22:22	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/15/24 22:22	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/15/24 22:22	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/15/24 22:22	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/15/24 22:22	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/15/24 22:22	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/15/24 22:22	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/15/24 22:22	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/15/24 22:22	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/15/24 22:22	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/15/24 22:22	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/15/24 22:22	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/15/24 22:22	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/15/24 22:22	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/15/24 22:22	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/15/24 22:22	1
Dichlorodifluoromethane	<0.785	U F1	1.00	0.785	ug/L			05/15/24 22:22	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/15/24 22:22	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/15/24 22:22	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/15/24 22:22	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/15/24 22:22	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/15/24 22:22	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/15/24 22:22	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/15/24 22:22	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/15/24 22:22	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/15/24 22:22	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/15/24 22:22	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/15/24 22:22	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/15/24 22:22	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/15/24 22:22	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/15/24 22:22	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/15/24 22:22	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/15/24 22:22	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/15/24 22:22	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/15/24 22:22	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/15/24 22:22	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/15/24 22:22	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/15/24 22:22	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/15/24 22:22	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/15/24 22:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/15/24 22:22	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/15/24 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/15/24 22:22	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/15/24 22:22	1
Dibromofluoromethane (Surr)	95		75 - 131		05/15/24 22:22	1
Toluene-d8 (Surr)	100		80 - 120		05/15/24 22:22	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,4,5-Trichlorophenol	<0.143	U *+ F1	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,4-Dimethylphenol	<0.192	U *1 F1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Nitroaniline	<0.149	U F1 ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 19:15	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 19:15	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 19:15	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 19:15	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 19:15	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 19:15	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 19:15	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 19:15	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 19:15	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 19:15	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 19:15	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 19:15	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 19:15	1
<b>Benzo[a]anthracene</b>	<b>0.0122</b>	<b>J I B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 19:15	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 19:15	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 19:15	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 19:15	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 19:15	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 19:15	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 19:15	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 19:15	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 19:15	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 19:15	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 19:15	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 19:15	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 19:15	1
Diethyl phthalate	<0.155	U F1 **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 19:15	1
Dimethyl phthalate	<0.108	U F1 **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 19:15	1
Di-n-butyl phthalate	<0.765	U ** F1	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 19:15	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 19:15	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 19:15	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 19:15	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 19:15	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 19:15	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 19:15	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 19:15	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 19:15	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 19:15	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 19:15	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 19:15	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 19:15	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 19:15	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 19:15	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 19:15	1
Pyridine	<1.44	U F1	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,3,4,6-Tetrachlorophenol	<0.211	U F1	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 19:15	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 19:15	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 19:15	1
<b>Diphenyl ether</b>	<b>0.814</b>		0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 19:15	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1'-Biphenyl</b>	<b>0.281</b>	<b>J</b>	0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 19:15	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,3-Dinitrobenzene	<0.0773	U *+ F1	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 19:15	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 19:15	1
1-Naphthylamine	<0.149	U F1 *- *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 19:15	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Acetylaminofluorene	<1.26	U F1 **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Picoline	<0.123	U F1 F2	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 19:15	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 19:15	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 19:15	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 19:15	1
3-Methylcholanthrene	<0.104	U F1 *-	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 19:15	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 19:15	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 19:15	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 19:15	1
Aramite Peak 1	<0.0785	U ** F1	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 19:15	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 19:15	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 19:15	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 19:15	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 19:15	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 19:15	1
Dimethoate	<0.122	U F1 **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 19:15	1
Dinoseb	<0.570	U F1 **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 19:15	1
Disulfoton	<0.203	U F1	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 19:15	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 19:15	1
Ethyl Parathion	<0.0502	U F1 **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 19:15	1
Famphur	<0.151	U F1 **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 19:15	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 19:15	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 19:15	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 19:15	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 19:15	1
Methapyrilene	<1.00	U F1	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 19:15	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 19:15	1
Methyl parathion	<0.319	U F1 **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosodi-n-butylamine	<0.516	U *+ F1	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 19:15	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 19:15	1
o,o',o"-Triethylphosphorothioate	<0.138	U F1	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 19:15	1
p-Dimethylamino azobenzene	<0.0238	U *+ *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 19:15	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 19:15	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 19:15	1
Phorate	<0.221	U F1	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 19:15	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U F1	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 19:15	1
Pronamide	<0.100	U *+	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 19:15	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 19:15	1
Sulfotepp	<0.147	U F1	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 19:15	1
Thionazin	<0.208	U F1	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 19:15	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130				05/14/24 14:39	05/17/24 19:15	1
2-Fluorobiphenyl	137	S1+	43 - 130				05/14/24 14:39	05/17/24 19:15	1
2-Fluorophenol (Surr)	103		19 - 120				05/14/24 14:39	05/17/24 19:15	1
Nitrobenzene-d5 (Surr)	151	S1+	37 - 133				05/14/24 14:39	05/17/24 19:15	1
Phenol-d5 (Surr)	72		8 - 124				05/14/24 14:39	05/17/24 19:15	1
p-Terphenyl-d14	110		47 - 130				05/14/24 14:39	05/17/24 19:15	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H F1	0.571	0.0766	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,2-Dichlorobenzene	<0.0941	U H F1	0.571	0.0941	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,3-Dichlorobenzene	<0.102	U H F1	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,4-Dichlorobenzene	<0.0779	U H F1	0.571	0.0779	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/21/24 06:20	05/22/24 08:21	1
<b>2,4-Dichlorophenol</b>	<b>0.289</b>	<b>J H</b>	0.571	0.140	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Chloronaphthalene	<0.378	U H F1	0.571	0.378	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/21/24 06:20	05/22/24 08:21	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/21/24 06:20	05/22/24 08:21	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/21/24 06:20	05/22/24 08:21	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Nitroaniline	<0.109	U H F1 *-	0.571	0.109	ug/L		05/21/24 06:20	05/22/24 08:21	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 08:21	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/21/24 06:20	05/22/24 08:21	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/21/24 06:20	05/22/24 08:21	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/21/24 06:20	05/22/24 08:21	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/21/24 06:20	05/22/24 08:21	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/21/24 06:20	05/22/24 08:21	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/21/24 06:20	05/22/24 08:21	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/21/24 06:20	05/22/24 08:21	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/21/24 06:20	05/22/24 08:21	1
<b>Benzy alcohol</b>	<b>0.757</b>	<b>J H B</b>	1.14	0.600	ug/L		05/21/24 06:20	05/22/24 08:21	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/21/24 06:20	05/22/24 08:21	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/21/24 06:20	05/22/24 08:21	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/21/24 06:20	05/22/24 08:21	1
Butyl benzy phthalate	<0.500	U H	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 08:21	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/21/24 06:20	05/22/24 08:21	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/21/24 06:20	05/22/24 08:21	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 08:21	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/21/24 06:20	05/22/24 08:21	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/21/24 06:20	05/22/24 08:21	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/21/24 06:20	05/22/24 08:21	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/21/24 06:20	05/22/24 08:21	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/21/24 06:20	05/22/24 08:21	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/21/24 06:20	05/22/24 08:21	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/21/24 06:20	05/22/24 08:21	1
Hexachlorobutadiene	<0.103	U H F1	0.571	0.103	ug/L		05/21/24 06:20	05/22/24 08:21	1
Hexachlorocyclopentadiene	<0.0512	U H F1 F2	0.571	0.0512	ug/L		05/21/24 06:20	05/22/24 08:21	1
Hexachloroethane	<0.102	U H F1	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 08:21	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 08:21	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 08:21	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/21/24 06:20	05/22/24 08:21	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/21/24 06:20	05/22/24 08:21	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/21/24 06:20	05/22/24 08:21	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/21/24 06:20	05/22/24 08:21	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/21/24 06:20	05/22/24 08:21	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/21/24 06:20	05/22/24 08:21	1
Pyridine	<1.44	U H F1	2.86	1.44	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitro-o-toluidine	<0.520	U H *-	1.14	0.520	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/21/24 06:20	05/22/24 08:21	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/21/24 06:20	05/22/24 08:21	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/21/24 06:20	05/22/24 08:21	1
Diphenyl ether	<0.0910	U H F1	0.571	0.0910	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,1'-Biphenyl	<0.0981	U H F1	0.571	0.0981	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H F1	0.571	0.0957	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/21/24 06:20	05/22/24 08:21	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/21/24 06:20	05/22/24 08:21	1
1-Naphthylamine	<0.149	U H F1 F2 *-	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 08:21	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Acetylaminofluorene	<1.26	U H	2.86	1.26	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Picoline	<0.123	U H F1	0.571	0.123	ug/L		05/21/24 06:20	05/22/24 08:21	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/21/24 06:20	05/22/24 08:21	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-27-D**

**Lab Sample ID: 860-74003-6**

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/21/24 06:20	05/22/24 08:21	1
3,3'-Dimethylbenzidine	<0.142	U H *-	0.571	0.142	ug/L		05/21/24 06:20	05/22/24 08:21	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 08:21	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/21/24 06:20	05/22/24 08:21	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 08:21	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *-	5.71	3.67	ug/L		05/21/24 06:20	05/22/24 08:21	1
Aramite Peak 1	<0.0785	U H	0.571	0.0785	ug/L		05/21/24 06:20	05/22/24 08:21	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 08:21	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 08:21	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 08:21	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 08:21	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 08:21	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/21/24 06:20	05/22/24 08:21	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/21/24 06:20	05/22/24 08:21	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/21/24 06:20	05/22/24 08:21	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/21/24 06:20	05/22/24 08:21	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/21/24 06:20	05/22/24 08:21	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/21/24 06:20	05/22/24 08:21	1
Hexachloropropene	<0.300	U H F1 F2	0.571	0.300	ug/L		05/21/24 06:20	05/22/24 08:21	1
		*_							
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 08:21	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/21/24 06:20	05/22/24 08:21	1
Isosafrole Peak 2	<0.241	U H *-	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 08:21	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/21/24 06:20	05/22/24 08:21	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/21/24 06:20	05/22/24 08:21	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosodimethylamine	<0.100	U H F1 *-	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosomorpholine	<0.220	U H F1	0.571	0.220	ug/L		05/21/24 06:20	05/22/24 08:21	1
N-Nitrosopyrrolidine	<0.268	U H F1	0.571	0.268	ug/L		05/21/24 06:20	05/22/24 08:21	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/21/24 06:20	05/22/24 08:21	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/21/24 06:20	05/22/24 08:21	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 08:21	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 08:21	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/21/24 06:20	05/22/24 08:21	1
p-Phenylene diamine	<0.500	U H F1 *-	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 08:21	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 08:21	1
Safrole, Total	<0.0571	U H F1	0.571	0.0571	ug/L		05/21/24 06:20	05/22/24 08:21	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/21/24 06:20	05/22/24 08:21	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/21/24 06:20	05/22/24 08:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		35 - 130	05/21/24 06:20	05/22/24 08:21	1
2-Fluorobiphenyl	91		43 - 130	05/21/24 06:20	05/22/24 08:21	1
2-Fluorophenol (Surr)	77		19 - 120	05/21/24 06:20	05/22/24 08:21	1
Nitrobenzene-d5 (Surr)	106		37 - 133	05/21/24 06:20	05/22/24 08:21	1
Phenol-d5 (Surr)	53		8 - 124	05/21/24 06:20	05/22/24 08:21	1
p-Terphenyl-d14	80		47 - 130	05/21/24 06:20	05/22/24 08:21	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 00:26	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 00:26	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 00:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 00:26	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 00:26	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 00:26	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 00:26	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 00:26	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 00:26	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 00:26	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 00:26	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 00:26	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 00:26	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 00:26	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 00:26	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 00:26	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 00:26	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 00:26	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 00:26	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 00:26	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 00:26	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 00:26	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 00:26	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 00:26	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 00:26	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 00:26	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 00:26	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 00:26	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 00:26	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 00:26	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 00:26	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 00:26	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 00:26	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 00:26	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 00:26	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 00:26	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 00:26	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 00:26	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 00:26	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 00:26	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 00:26	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 00:26	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 00:26	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 00:26	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 00:26	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 00:26	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 00:26	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 00:26	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 00:26	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

**Date Collected: 05/09/24 10:45**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 00:26	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 00:26	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 00:26	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 00:26	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 00:26	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 00:26	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 00:26	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 00:26	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 00:26	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 00:26	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 00:26	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 00:26	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 00:26	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 00:26	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 00:26	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 00:26	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 00:26	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 00:26	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 00:26	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/16/24 00:26	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/16/24 00:26	1
Dibromofluoromethane (Surr)	97		75 - 131		05/16/24 00:26	1
Toluene-d8 (Surr)	101		80 - 120		05/16/24 00:26	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 23:13	1
<b>2,4-Dinitrophenol</b>	<b>0.212</b>	<b>J I</b>	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 23:13	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 23:13	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 23:13	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 23:13	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:13	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 23:13	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 23:13	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 23:13	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 23:13	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 23:13	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 23:13	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 23:13	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 23:13	1
<b>Benzo[a]anthracene</b>	<b>0.0105</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 23:13	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 23:13	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 23:13	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 23:13	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 23:13	1
<b>Benzyl alcohol</b>	<b>0.666</b>	<b>J</b>	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 23:13	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 23:13	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 23:13	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 23:13	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 23:13	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 23:13	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 23:13	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 23:13	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 23:13	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 23:13	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 23:13	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 23:13	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 23:13	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 23:13	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 23:13	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 23:13	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 23:13	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 23:13	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:13	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 23:13	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 23:13	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 23:13	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 23:13	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 23:13	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 23:13	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 23:13	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 23:13	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 23:13	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 23:13	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 23:13	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 23:13	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 23:13	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 23:13	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 23:13	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 23:13	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 23:13	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 23:13	1
3,3'-Dimethylbenzidine	<0.142	U * -	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 23:13	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 23:13	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 23:13	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 23:13	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 23:13	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 23:13	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 23:13	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 23:13	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 23:13	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 23:13	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 23:13	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 23:13	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 23:13	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 23:13	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 23:13	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 23:13	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 23:13	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 23:13	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 23:13	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 23:13	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 23:13	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 23:13	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 23:13	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 23:13	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 23:13	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 23:13	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 23:13	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:13	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:13	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 23:13	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 23:13	1
Pronamide	<0.100	U *	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:13	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 23:13	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 23:13	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 23:13	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	108		35 - 130				05/14/24 14:39	05/17/24 23:13	1
2-Fluorobiphenyl	128		43 - 130				05/14/24 14:39	05/17/24 23:13	1
2-Fluorophenol (Surr)	88		19 - 120				05/14/24 14:39	05/17/24 23:13	1
Nitrobenzene-d5 (Surr)	150	S1+	37 - 133				05/14/24 14:39	05/17/24 23:13	1
Phenol-d5 (Surr)	80		8 - 124				05/14/24 14:39	05/17/24 23:13	1
p-Terphenyl-d14	109		47 - 130				05/14/24 14:39	05/17/24 23:13	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/21/24 06:20	05/22/24 14:15	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/21/24 06:20	05/22/24 14:15	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/21/24 06:20	05/22/24 14:15	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Nitroaniline	<0.109	U H *	0.571	0.109	ug/L		05/21/24 06:20	05/22/24 14:15	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 14:15	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/21/24 06:20	05/22/24 14:15	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/21/24 06:20	05/22/24 14:15	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/21/24 06:20	05/22/24 14:15	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/21/24 06:20	05/22/24 14:15	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/21/24 06:20	05/22/24 14:15	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/21/24 06:20	05/22/24 14:15	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/21/24 06:20	05/22/24 14:15	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/21/24 06:20	05/22/24 14:15	1
<b>Benzy alcohol</b>	<b>0.820</b>	<b>J H B</b>	1.14	0.600	ug/L		05/21/24 06:20	05/22/24 14:15	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/21/24 06:20	05/22/24 14:15	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/21/24 06:20	05/22/24 14:15	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/21/24 06:20	05/22/24 14:15	1
Butyl benzy phthalate	<0.500	U H	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 14:15	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/21/24 06:20	05/22/24 14:15	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/21/24 06:20	05/22/24 14:15	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 14:15	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/21/24 06:20	05/22/24 14:15	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/21/24 06:20	05/22/24 14:15	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/21/24 06:20	05/22/24 14:15	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/21/24 06:20	05/22/24 14:15	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/21/24 06:20	05/22/24 14:15	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/21/24 06:20	05/22/24 14:15	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/21/24 06:20	05/22/24 14:15	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/21/24 06:20	05/22/24 14:15	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/21/24 06:20	05/22/24 14:15	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/21/24 06:20	05/22/24 14:15	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 14:15	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/21/24 06:20	05/22/24 14:15	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/21/24 06:20	05/22/24 14:15	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/21/24 06:20	05/22/24 14:15	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/21/24 06:20	05/22/24 14:15	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/21/24 06:20	05/22/24 14:15	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/21/24 06:20	05/22/24 14:15	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/21/24 06:20	05/22/24 14:15	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitro-o-toluidine	<0.520	U H *-	1.14	0.520	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/21/24 06:20	05/22/24 14:15	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/21/24 06:20	05/22/24 14:15	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/21/24 06:20	05/22/24 14:15	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H	0.571	0.0957	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/21/24 06:20	05/22/24 14:15	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/21/24 06:20	05/22/24 14:15	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/21/24 06:20	05/22/24 14:15	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Acetylaminofluorene	<1.26	U H	2.86	1.26	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/21/24 06:20	05/22/24 14:15	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/21/24 06:20	05/22/24 14:15	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: RB-02**

**Lab Sample ID: 860-74003-7**

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/21/24 06:20	05/22/24 14:15	1
3,3'-Dimethylbenzidine	<0.142	U H *-	0.571	0.142	ug/L		05/21/24 06:20	05/22/24 14:15	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/21/24 06:20	05/22/24 14:15	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/21/24 06:20	05/22/24 14:15	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 14:15	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *-	5.71	3.67	ug/L		05/21/24 06:20	05/22/24 14:15	1
Aramite Peak 1	<0.0785	U H	0.571	0.0785	ug/L		05/21/24 06:20	05/22/24 14:15	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 14:15	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/21/24 06:20	05/22/24 14:15	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 14:15	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/21/24 06:20	05/22/24 14:15	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/21/24 06:20	05/22/24 14:15	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/21/24 06:20	05/22/24 14:15	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/21/24 06:20	05/22/24 14:15	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/21/24 06:20	05/22/24 14:15	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/21/24 06:20	05/22/24 14:15	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/21/24 06:20	05/22/24 14:15	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/21/24 06:20	05/22/24 14:15	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/21/24 06:20	05/22/24 14:15	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 14:15	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/21/24 06:20	05/22/24 14:15	1
Isosafrole Peak 2	<0.241	U H *-	0.571	0.241	ug/L		05/21/24 06:20	05/22/24 14:15	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/21/24 06:20	05/22/24 14:15	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/21/24 06:20	05/22/24 14:15	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosodimethylamine	<0.100	U H *-	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/21/24 06:20	05/22/24 14:15	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/21/24 06:20	05/22/24 14:15	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/21/24 06:20	05/22/24 14:15	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/21/24 06:20	05/22/24 14:15	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 14:15	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 14:15	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/21/24 06:20	05/22/24 14:15	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/21/24 06:20	05/22/24 14:15	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/21/24 06:20	05/22/24 14:15	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/21/24 06:20	05/22/24 14:15	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/21/24 06:20	05/22/24 14:15	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/21/24 06:20	05/22/24 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		35 - 130	05/21/24 06:20	05/22/24 14:15	1
2-Fluorobiphenyl	93		43 - 130	05/21/24 06:20	05/22/24 14:15	1
2-Fluorophenol (Surr)	54		19 - 120	05/21/24 06:20	05/22/24 14:15	1
Nitrobenzene-d5 (Surr)	107		37 - 133	05/21/24 06:20	05/22/24 14:15	1
Phenol-d5 (Surr)	53		8 - 124	05/21/24 06:20	05/22/24 14:15	1
p-Terphenyl-d14	86		47 - 130	05/21/24 06:20	05/22/24 14:15	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-31-D**

**Lab Sample ID: 860-74003-8**

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 00:46	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 00:46	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 00:46	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 00:46	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 00:46	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 00:46	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 00:46	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 00:46	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 00:46	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 00:46	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 00:46	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 00:46	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 00:46	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 00:46	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 00:46	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 00:46	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 00:46	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 00:46	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 00:46	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 00:46	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 00:46	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 00:46	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 00:46	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 00:46	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 00:46	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 00:46	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 00:46	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 00:46	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 00:46	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 00:46	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 00:46	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 00:46	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 00:46	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 00:46	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 00:46	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 00:46	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 00:46	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 00:46	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 00:46	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 00:46	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 00:46	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 00:46	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 00:46	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 00:46	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 00:46	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 00:46	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 00:46	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 00:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-31-D**

**Lab Sample ID: 860-74003-8**

**Date Collected: 05/09/24 11:24**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 00:46	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 00:46	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 00:46	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 00:46	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 00:46	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 00:46	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 00:46	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 00:46	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 00:46	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 00:46	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 00:46	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 00:46	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 00:46	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 00:46	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 00:46	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 00:46	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 00:46	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 00:46	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 00:46	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/16/24 00:46	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/16/24 00:46	1
Dibromofluoromethane (Surr)	98		75 - 131		05/16/24 00:46	1
Toluene-d8 (Surr)	97		80 - 120		05/16/24 00:46	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/17/24 23:42	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/17/24 23:42	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/17/24 23:42	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/17/24 23:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-31-D**

**Lab Sample ID: 860-74003-8**

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:42	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 23:42	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 23:42	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/17/24 23:42	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/17/24 23:42	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 23:42	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/17/24 23:42	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/17/24 23:42	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/17/24 23:42	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 14:39	05/17/24 23:42	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/17/24 23:42	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/17/24 23:42	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/17/24 23:42	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/17/24 23:42	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/17/24 23:42	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/17/24 23:42	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/17/24 23:42	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/17/24 23:42	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 23:42	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/17/24 23:42	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/17/24 23:42	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 23:42	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/17/24 23:42	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/17/24 23:42	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/17/24 23:42	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/17/24 23:42	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/17/24 23:42	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/17/24 23:42	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/17/24 23:42	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/17/24 23:42	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/17/24 23:42	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/17/24 23:42	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:42	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/17/24 23:42	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/17/24 23:42	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/17/24 23:42	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/17/24 23:42	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/17/24 23:42	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/17/24 23:42	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/17/24 23:42	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/17/24 23:42	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/17/24 23:42	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/17/24 23:42	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:39	05/17/24 23:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-31-D**

**Lab Sample ID: 860-74003-8**

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/17/24 23:42	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/17/24 23:42	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/17/24 23:42	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/17/24 23:42	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/17/24 23:42	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/17/24 23:42	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/17/24 23:42	1
3,3'-Dimethylbenzidine	<0.142	U * -	0.571	0.142	ug/L		05/14/24 14:39	05/17/24 23:42	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:39	05/17/24 23:42	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/17/24 23:42	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 23:42	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:39	05/17/24 23:42	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/17/24 23:42	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 23:42	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/17/24 23:42	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 23:42	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/17/24 23:42	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/17/24 23:42	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/17/24 23:42	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/17/24 23:42	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/17/24 23:42	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/17/24 23:42	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/17/24 23:42	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/17/24 23:42	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/17/24 23:42	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 23:42	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/17/24 23:42	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/17/24 23:42	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/17/24 23:42	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/17/24 23:42	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/17/24 23:42	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/17/24 23:42	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/17/24 23:42	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/17/24 23:42	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:42	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:42	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/17/24 23:42	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-31-D**

**Lab Sample ID: 860-74003-8**

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/17/24 23:42	1
Pronamide	<0.100	U *+	0.571	0.100	ug/L		05/14/24 14:39	05/17/24 23:42	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/17/24 23:42	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/17/24 23:42	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/17/24 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	129		35 - 130	05/14/24 14:39	05/17/24 23:42	1
2-Fluorobiphenyl	121		43 - 130	05/14/24 14:39	05/17/24 23:42	1
2-Fluorophenol (Surr)	101		19 - 120	05/14/24 14:39	05/17/24 23:42	1
Nitrobenzene-d5 (Surr)	141	S1+	37 - 133	05/14/24 14:39	05/17/24 23:42	1
Phenol-d5 (Surr)	70		8 - 124	05/14/24 14:39	05/17/24 23:42	1
p-Terphenyl-d14	101		47 - 130	05/14/24 14:39	05/17/24 23:42	1

**Client Sample ID: MW-25**

**Lab Sample ID: 860-74003-9**

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 01:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 01:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 01:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 01:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 01:07	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 01:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 01:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 01:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 01:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 01:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 01:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 01:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 01:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 01:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 01:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 01:07	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 01:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 01:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 01:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 01:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 01:07	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 01:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 01:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 01:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 01:07	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 01:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 01:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 01:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 01:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 01:07	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-25**

**Lab Sample ID: 860-74003-9**

**Date Collected: 05/09/24 11:24**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 01:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 01:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 01:07	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 01:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 01:07	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 01:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 01:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 01:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 01:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 01:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 01:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 01:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 01:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 01:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 01:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 01:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 01:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 01:07	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 01:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 01:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 01:07	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 01:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 01:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 01:07	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 01:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 01:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 01:07	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 01:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 01:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 01:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 01:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 01:07	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 01:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 01:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 01:07	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 01:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 01:07	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 01:07	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/16/24 01:07	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/16/24 01:07	1
Dibromofluoromethane (Surr)	98		75 - 131		05/16/24 01:07	1
Toluene-d8 (Surr)	100		80 - 120		05/16/24 01:07	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/18/24 00:12	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-25**

**Lab Sample ID: 860-74003-9**

**Date Collected: 05/09/24 11:24**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/18/24 00:12	1
<b>1,4-Dioxane</b>	<b>1.36</b>		0.571	0.0890	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/18/24 00:12	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/18/24 00:12	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/18/24 00:12	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/18/24 00:12	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 00:12	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/18/24 00:12	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/18/24 00:12	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/18/24 00:12	1
Benzo[a]anthracene	<0.00953	U **	0.0286	0.00953	ug/L		05/14/24 14:39	05/18/24 00:12	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/18/24 00:12	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/18/24 00:12	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/18/24 00:12	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/18/24 00:12	1
<b>Benzyl alcohol</b>	<b>0.712</b>	<b>J</b>	1.14	0.600	ug/L		05/14/24 14:39	05/18/24 00:12	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/18/24 00:12	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/18/24 00:12	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/18/24 00:12	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 00:12	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/18/24 00:12	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/18/24 00:12	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 00:12	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/18/24 00:12	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/18/24 00:12	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/18/24 00:12	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/18/24 00:12	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/18/24 00:12	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/18/24 00:12	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/18/24 00:12	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/18/24 00:12	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-25**

**Lab Sample ID: 860-74003-9**

**Date Collected: 05/09/24 11:24**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/18/24 00:12	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 00:12	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:12	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 00:12	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/18/24 00:12	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/18/24 00:12	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/18/24 00:12	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/18/24 00:12	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/18/24 00:12	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/18/24 00:12	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/18/24 00:12	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/18/24 00:12	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/18/24 00:12	1
<b>Diphenyl ether</b>	<b>1.98</b>		0.571	0.0910	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/18/24 00:12	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/18/24 00:12	1
1-Naphthylamine	<0.149	U *- *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 00:12	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/18/24 00:12	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/18/24 00:12	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/18/24 00:12	1
3,3'-Dimethylbenzidine	<0.142	U *-	0.571	0.142	ug/L		05/14/24 14:39	05/18/24 00:12	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 00:12	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/18/24 00:12	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 00:12	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:39	05/18/24 00:12	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/18/24 00:12	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 00:12	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 00:12	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 00:12	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 00:12	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 00:12	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/18/24 00:12	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/18/24 00:12	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/18/24 00:12	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/18/24 00:12	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/18/24 00:12	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-25**

**Lab Sample ID: 860-74003-9**

**Date Collected: 05/09/24 11:24**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/18/24 00:12	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/18/24 00:12	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 00:12	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/18/24 00:12	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 00:12	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/18/24 00:12	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/18/24 00:12	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/18/24 00:12	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/18/24 00:12	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/18/24 00:12	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/18/24 00:12	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:12	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:12	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/18/24 00:12	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 00:12	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:12	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/18/24 00:12	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/18/24 00:12	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/18/24 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		35 - 130	05/14/24 14:39	05/18/24 00:12	1
2-Fluorobiphenyl	99		43 - 130	05/14/24 14:39	05/18/24 00:12	1
2-Fluorophenol (Surr)	97		19 - 120	05/14/24 14:39	05/18/24 00:12	1
Nitrobenzene-d5 (Surr)	132		37 - 133	05/14/24 14:39	05/18/24 00:12	1
Phenol-d5 (Surr)	68		8 - 124	05/14/24 14:39	05/18/24 00:12	1
p-Terphenyl-d14	110		47 - 130	05/14/24 14:39	05/18/24 00:12	1

**Client Sample ID: TB-05**

**Lab Sample ID: 860-74003-10**

**Date Collected: 05/09/24 00:00**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 01:27	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 01:27	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 01:27	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 01:27	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 01:27	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 01:27	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 01:27	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 01:27	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 01:27	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 01:27	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: TB-05**

**Lab Sample ID: 860-74003-10**

**Date Collected: 05/09/24 00:00**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 01:27	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 01:27	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 01:27	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 01:27	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 01:27	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 01:27	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 01:27	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 01:27	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 01:27	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 01:27	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 01:27	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 01:27	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 01:27	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 01:27	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 01:27	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 01:27	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 01:27	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 01:27	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 01:27	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 01:27	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 01:27	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 01:27	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 01:27	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 01:27	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 01:27	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 01:27	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 01:27	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 01:27	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 01:27	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 01:27	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 01:27	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 01:27	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 01:27	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 01:27	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 01:27	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 01:27	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 01:27	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 01:27	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 01:27	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 01:27	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 01:27	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 01:27	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 01:27	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 01:27	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 01:27	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 01:27	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 01:27	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 01:27	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 01:27	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: TB-05**

**Lab Sample ID: 860-74003-10**

**Date Collected: 05/09/24 00:00**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 01:27	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 01:27	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 01:27	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 01:27	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 01:27	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 01:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 01:27	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/16/24 01:27	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/16/24 01:27	1
Dibromofluoromethane (Surr)	99		75 - 131		05/16/24 01:27	1
Toluene-d8 (Surr)	101		80 - 120		05/16/24 01:27	1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/16/24 11:23	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/16/24 11:23	1
Dibromofluoromethane (Surr)	99		75 - 131		05/16/24 11:23	1
Toluene-d8 (Surr)	102		80 - 120		05/16/24 11:23	1

**Client Sample ID: MW-33-S**

**Lab Sample ID: 860-74003-11**

**Date Collected: 05/09/24 13:27**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 01:48	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 01:48	1
1,1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 01:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 01:48	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 01:48	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 01:48	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 01:48	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 01:48	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 01:48	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 01:48	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 01:48	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 01:48	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 01:48	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 01:48	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 01:48	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 01:48	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 01:48	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 01:48	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 01:48	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 01:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-S**

**Lab Sample ID: 860-74003-11**

Date Collected: 05/09/24 13:27

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 01:48	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 01:48	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 01:48	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 01:48	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 01:48	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 01:48	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 01:48	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 01:48	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 01:48	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 01:48	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 01:48	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 01:48	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 01:48	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 01:48	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 01:48	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 01:48	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 01:48	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 01:48	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 01:48	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 01:48	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 01:48	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 01:48	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 01:48	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 01:48	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 01:48	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 01:48	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 01:48	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 01:48	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 01:48	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 01:48	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 01:48	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 01:48	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 01:48	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 01:48	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 01:48	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 01:48	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 01:48	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 01:48	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 01:48	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 01:48	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 01:48	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 01:48	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 01:48	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 01:48	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 01:48	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 01:48	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 01:48	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 01:48	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 01:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-S**

**Lab Sample ID: 860-74003-11**

**Date Collected: 05/09/24 13:27**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/16/24 01:48	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/16/24 01:48	1
Dibromofluoromethane (Surr)	98		75 - 131		05/16/24 01:48	1
Toluene-d8 (Surr)	99		80 - 120		05/16/24 01:48	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,4,5-Trichlorophenol	<0.143	U *	0.571	0.143	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,4-Dinitrotoluene	<0.205	U *	0.571	0.205	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,6-Dinitrotoluene	<0.116	U *	0.571	0.116	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Nitroaniline	<0.149	U * *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Nitrophenol	<0.136	U *	0.571	0.136	ug/L		05/14/24 14:39	05/18/24 00:42	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/18/24 00:42	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/18/24 00:42	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Chloro-3-methylphenol	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/18/24 00:42	1
Acenaphthene	<0.107	U *1	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 00:42	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/18/24 00:42	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/18/24 00:42	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/18/24 00:42	1
Benzo[a]anthracene	<0.0286	U *	0.0286	0.0286	ug/L		05/14/24 14:39	05/18/24 00:42	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/18/24 00:42	1
Benzo[b]fluoranthene	<0.0664	U *	0.571	0.0664	ug/L		05/14/24 14:39	05/18/24 00:42	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/18/24 00:42	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/18/24 00:42	1
<b>Benzyl alcohol</b>	<b>0.678</b>	<b>J</b>	1.14	0.600	ug/L		05/14/24 14:39	05/18/24 00:42	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/18/24 00:42	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/18/24 00:42	1
Bis(2-ethylhexyl) phthalate	<0.900	U *	1.14	0.900	ug/L		05/14/24 14:39	05/18/24 00:42	1
Butyl benzyl phthalate	<0.500	U *	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 00:42	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/18/24 00:42	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/18/24 00:42	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 00:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-S**

**Lab Sample ID: 860-74003-11**

Date Collected: 05/09/24 13:27

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/18/24 00:42	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/18/24 00:42	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/18/24 00:42	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/18/24 00:42	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/18/24 00:42	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/18/24 00:42	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/18/24 00:42	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/18/24 00:42	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/18/24 00:42	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 00:42	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:42	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 00:42	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/18/24 00:42	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/18/24 00:42	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/18/24 00:42	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/18/24 00:42	1
<b>Phenol</b>	<b>2.00</b>	<b>J</b>	2.86	0.448	ug/L		05/14/24 14:39	05/18/24 00:42	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/18/24 00:42	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/18/24 00:42	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/18/24 00:42	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/18/24 00:42	1
<b>1,1'-Biphenyl</b>	<b>17.7</b>		0.571	0.0981	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/18/24 00:42	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/18/24 00:42	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 00:42	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/18/24 00:42	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/18/24 00:42	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/18/24 00:42	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/14/24 14:39	05/18/24 00:42	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 00:42	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/18/24 00:42	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 00:42	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:39	05/18/24 00:42	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/18/24 00:42	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 00:42	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 00:42	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 00:42	1

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-S**

**Lab Sample ID: 860-74003-11**

Date Collected: 05/09/24 13:27

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 00:42	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 00:42	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/18/24 00:42	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/18/24 00:42	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/18/24 00:42	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/18/24 00:42	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/18/24 00:42	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/18/24 00:42	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/18/24 00:42	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 00:42	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/18/24 00:42	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 00:42	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/18/24 00:42	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/18/24 00:42	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/18/24 00:42	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/18/24 00:42	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/18/24 00:42	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/18/24 00:42	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:42	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:42	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/18/24 00:42	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 00:42	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 00:42	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/18/24 00:42	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/18/24 00:42	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/18/24 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	130		35 - 130	05/14/24 14:39	05/18/24 00:42	1
2-Fluorobiphenyl	112		43 - 130	05/14/24 14:39	05/18/24 00:42	1
2-Fluorophenol (Surr)	105		19 - 120	05/14/24 14:39	05/18/24 00:42	1
Nitrobenzene-d5 (Surr)	139	S1+	37 - 133	05/14/24 14:39	05/18/24 00:42	1
Phenol-d5 (Surr)	75		8 - 124	05/14/24 14:39	05/18/24 00:42	1
p-Terphenyl-d14	103		47 - 130	05/14/24 14:39	05/18/24 00:42	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	295		11.4	1.82	ug/L		05/14/24 14:39	05/20/24 17:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	147	S1+	35 - 130	05/14/24 14:39	05/20/24 17:02	20
2-Fluorobiphenyl	112		43 - 130	05/14/24 14:39	05/20/24 17:02	20
2-Fluorophenol (Surr)	213	S1+	19 - 120	05/14/24 14:39	05/20/24 17:02	20
Nitrobenzene-d5 (Surr)	142	S1+	37 - 133	05/14/24 14:39	05/20/24 17:02	20
Phenol-d5 (Surr)	196	S1+	8 - 124	05/14/24 14:39	05/20/24 17:02	20

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Client Sample ID: MW-33-S

Date Collected: 05/09/24 13:27

Date Received: 05/10/24 09:50

## Lab Sample ID: 860-74003-11

Matrix: Water

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	133	S1+	47 - 130	05/14/24 14:39	05/20/24 17:02	20

## Client Sample ID: FB-02

Date Collected: 05/09/24 15:27

Date Received: 05/10/24 09:50

## Lab Sample ID: 860-74003-12

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 02:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 02:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 02:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 02:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 02:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 02:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 02:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 02:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 02:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 02:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 02:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 02:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 02:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 02:08	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 02:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 02:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 02:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 02:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 02:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 02:08	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 02:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 02:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 02:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 02:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 02:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 02:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 02:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 02:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 02:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 02:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 02:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 02:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 02:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 02:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 02:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 02:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 02:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 02:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 02:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 02:08	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: FB-02**

**Lab Sample ID: 860-74003-12**

Date Collected: 05/09/24 15:27

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 02:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 02:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 02:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 02:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 02:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 02:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 02:08	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 02:08	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 02:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 02:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 02:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 02:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 02:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 02:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 02:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 02:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 02:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 02:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 02:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 02:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 02:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 02:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 02:08	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 02:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 02:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 02:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 02:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					05/16/24 02:08	1
4-Bromofluorobenzene (Surr)	102		74 - 124					05/16/24 02:08	1
Dibromofluoromethane (Surr)	98		75 - 131					05/16/24 02:08	1
Toluene-d8 (Surr)	102		80 - 120					05/16/24 02:08	1

**Client Sample ID: MW-33-D**

**Lab Sample ID: 860-74003-13**

Date Collected: 05/09/24 13:55

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 02:29	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 02:29	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 02:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 02:29	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 02:29	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 02:29	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 02:29	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 02:29	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 02:29	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-D**

**Lab Sample ID: 860-74003-13**

**Date Collected: 05/09/24 13:55**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 02:29	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 02:29	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 02:29	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 02:29	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 02:29	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 02:29	1
<b>2,2,4-Trimethylpentane</b>	<b>0.610</b>	<b>J</b>	5.00	0.500	ug/L			05/16/24 02:29	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 02:29	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 02:29	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 02:29	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 02:29	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 02:29	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 02:29	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 02:29	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 02:29	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 02:29	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 02:29	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 02:29	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 02:29	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 02:29	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 02:29	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 02:29	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 02:29	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 02:29	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 02:29	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 02:29	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 02:29	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 02:29	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 02:29	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 02:29	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 02:29	1
<b>Cumene (isopropylbenzene)</b>	<b>0.879</b>	<b>J</b>	1.00	0.592	ug/L			05/16/24 02:29	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 02:29	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 02:29	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 02:29	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 02:29	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 02:29	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 02:29	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 02:29	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 02:29	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 02:29	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 02:29	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 02:29	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 02:29	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 02:29	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 02:29	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 02:29	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 02:29	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 02:29	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-D**

**Lab Sample ID: 860-74003-13**

Date Collected: 05/09/24 13:55

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 02:29	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 02:29	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 02:29	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 02:29	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 02:29	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 02:29	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 02:29	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 02:29	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 02:29	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 02:29	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/16/24 02:29	1
4-Bromofluorobenzene (Surr)	96		74 - 124		05/16/24 02:29	1
Dibromofluoromethane (Surr)	99		75 - 131		05/16/24 02:29	1
Toluene-d8 (Surr)	98		80 - 120		05/16/24 02:29	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>1,4-Dichlorobenzene</b>	<b>0.0918</b>	<b>J</b>	0.571	0.0779	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,4,5-Trichlorophenol	<0.143	U *	0.571	0.143	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,4-Dinitrotoluene	<0.205	U *	0.571	0.205	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,6-Dinitrotoluene	<0.116	U *	0.571	0.116	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Nitroaniline	<0.149	U * *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Nitrophenol	<0.136	U *	0.571	0.136	ug/L		05/14/24 14:39	05/18/24 01:11	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/18/24 01:11	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/18/24 01:11	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Chloro-3-methylphenol	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>Acenaphthene</b>	<b>1.36</b>	<b>*1</b>	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 01:11	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/18/24 01:11	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/18/24 01:11	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/18/24 01:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-D**

**Lab Sample ID: 860-74003-13**

Date Collected: 05/09/24 13:55

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]anthracene</b>	<b>0.0231</b>	<b>J I B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/18/24 01:11	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/18/24 01:11	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/18/24 01:11	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/18/24 01:11	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>Benzyl alcohol</b>	<b>0.779</b>	<b>J</b>	1.14	0.600	ug/L		05/14/24 14:39	05/18/24 01:11	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/18/24 01:11	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/18/24 01:11	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/18/24 01:11	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 01:11	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/18/24 01:11	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>Dibenzofuran</b>	<b>7.23</b>		0.571	0.107	ug/L		05/14/24 14:39	05/18/24 01:11	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/18/24 01:11	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/18/24 01:11	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/18/24 01:11	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/18/24 01:11	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>Fluorene</b>	<b>0.463</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:39	05/18/24 01:11	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/18/24 01:11	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/18/24 01:11	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/18/24 01:11	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 01:11	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:11	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>Naphthalene</b>	<b>2.41</b>		0.571	0.0944	ug/L		05/14/24 14:39	05/18/24 01:11	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/18/24 01:11	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/18/24 01:11	1
<b>Phenanthrene</b>	<b>0.418</b>	<b>J</b>	0.571	0.134	ug/L		05/14/24 14:39	05/18/24 01:11	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/18/24 01:11	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/18/24 01:11	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/18/24 01:11	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/18/24 01:11	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/18/24 01:11	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 01:11	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/18/24 01:11	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/18/24 01:11	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-D**

**Lab Sample ID: 860-74003-13**

Date Collected: 05/09/24 13:55

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/18/24 01:11	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/18/24 01:11	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/14/24 14:39	05/18/24 01:11	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 01:11	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/18/24 01:11	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 01:11	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:39	05/18/24 01:11	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/18/24 01:11	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 01:11	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 01:11	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 01:11	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 01:11	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 01:11	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/18/24 01:11	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/18/24 01:11	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/18/24 01:11	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/18/24 01:11	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/18/24 01:11	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/18/24 01:11	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/18/24 01:11	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 01:11	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/18/24 01:11	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 01:11	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/18/24 01:11	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/18/24 01:11	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/18/24 01:11	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/18/24 01:11	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/18/24 01:11	1
p-Dimethylamino azobenzene	<0.0238	U * *1	0.571	0.0238	ug/L		05/14/24 14:39	05/18/24 01:11	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:11	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:11	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/18/24 01:11	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 01:11	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:11	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/18/24 01:11	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/18/24 01:11	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/18/24 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	144	S1+	35 - 130	05/14/24 14:39	05/18/24 01:11	1
2-Fluorobiphenyl	119		43 - 130	05/14/24 14:39	05/18/24 01:11	1
2-Fluorophenol (Surr)	111		19 - 120	05/14/24 14:39	05/18/24 01:11	1
Nitrobenzene-d5 (Surr)	145	S1+	37 - 133	05/14/24 14:39	05/18/24 01:11	1
Phenol-d5 (Surr)	85		8 - 124	05/14/24 14:39	05/18/24 01:11	1
p-Terphenyl-d14	128		47 - 130	05/14/24 14:39	05/18/24 01:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: MW-33-D**

**Lab Sample ID: 860-74003-13**

Date Collected: 05/09/24 13:55

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	26.5	J	57.1	8.96	ug/L		05/14/24 14:39	05/21/24 22:26	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	169	S1+	35 - 130				05/14/24 14:39	05/21/24 22:26	20
2-Fluorobiphenyl	146	S1+	43 - 130				05/14/24 14:39	05/21/24 22:26	20
2-Fluorophenol (Surr)	126	S1+	19 - 120				05/14/24 14:39	05/21/24 22:26	20
Nitrobenzene-d5 (Surr)	164	S1+	37 - 133				05/14/24 14:39	05/21/24 22:26	20
Phenol-d5 (Surr)	109		8 - 124				05/14/24 14:39	05/21/24 22:26	20
p-Terphenyl-d14	162	S1+	47 - 130				05/14/24 14:39	05/21/24 22:26	20

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	11600		571	91.0	ug/L		05/14/24 14:39	05/21/24 22:55	1000
1,1'-Biphenyl	2320		571	98.1	ug/L		05/14/24 14:39	05/21/24 22:55	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130				05/14/24 14:39	05/21/24 22:55	1000
2-Fluorobiphenyl	0	S1-	43 - 130				05/14/24 14:39	05/21/24 22:55	1000
2-Fluorophenol (Surr)	295	S1+	19 - 120				05/14/24 14:39	05/21/24 22:55	1000
Nitrobenzene-d5 (Surr)	0	S1-	37 - 133				05/14/24 14:39	05/21/24 22:55	1000
Phenol-d5 (Surr)	0	S1-	8 - 124				05/14/24 14:39	05/21/24 22:55	1000
p-Terphenyl-d14	181	S1+	47 - 130				05/14/24 14:39	05/21/24 22:55	1000

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 02:49	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 02:49	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 02:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 02:49	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 02:49	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 02:49	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 02:49	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 02:49	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 02:49	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 02:49	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 02:49	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 02:49	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 02:49	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 02:49	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 02:49	1
<b>2,2,4-Trimethylpentane</b>	<b>0.533</b>	<b>J</b>	5.00	0.500	ug/L			05/16/24 02:49	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 02:49	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 02:49	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 02:49	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 02:49	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 02:49	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 02:49	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

**Date Collected: 05/09/24 00:00**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 02:49	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 02:49	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 02:49	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 02:49	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 02:49	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 02:49	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 02:49	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 02:49	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 02:49	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 02:49	1
<b>Chlorobenzene</b>	<b>0.550</b>	<b>J</b>	1.00	0.455	ug/L			05/16/24 02:49	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 02:49	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 02:49	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 02:49	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 02:49	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 02:49	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 02:49	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 02:49	1
<b>Cumene (isopropylbenzene)</b>	<b>0.839</b>	<b>J</b>	1.00	0.592	ug/L			05/16/24 02:49	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 02:49	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 02:49	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 02:49	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 02:49	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 02:49	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 02:49	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 02:49	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 02:49	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 02:49	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 02:49	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 02:49	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 02:49	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 02:49	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 02:49	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 02:49	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 02:49	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 02:49	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 02:49	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 02:49	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 02:49	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 02:49	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 02:49	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 02:49	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 02:49	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 02:49	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 02:49	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 02:49	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/16/24 02:49	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

**Date Collected: 05/09/24 00:00**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		05/16/24 02:49	1
Dibromofluoromethane (Surr)	98		75 - 131		05/16/24 02:49	1
Toluene-d8 (Surr)	100		80 - 120		05/16/24 02:49	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,4-Dimethylphenol	<0.192	U *1	0.571	0.192	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>2,4-Dinitrophenol</b>	<b>0.292</b>	<b>J I</b>	2.86	0.104	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Methylphenol	<0.105	U *1	0.571	0.105	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Nitroaniline	<0.149	U ** *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:39	05/18/24 01:41	1
3 & 4 Methylphenol	<0.139	U *1	0.571	0.139	ug/L		05/14/24 14:39	05/18/24 01:41	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/18/24 01:41	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Acenaphthene</b>	<b>1.40</b>	<b>*1</b>	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 01:41	1
Acenaphthylene	<0.0996	U *1	0.571	0.0996	ug/L		05/14/24 14:39	05/18/24 01:41	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/18/24 01:41	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Benzo[a]anthracene</b>	<b>0.0101</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:39	05/18/24 01:41	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/18/24 01:41	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:39	05/18/24 01:41	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/18/24 01:41	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Benzyl alcohol</b>	<b>0.771</b>	<b>J I</b>	1.14	0.600	ug/L		05/14/24 14:39	05/18/24 01:41	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/18/24 01:41	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/18/24 01:41	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:39	05/18/24 01:41	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 01:41	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/18/24 01:41	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Dibenzofuran</b>	<b>7.11</b>		0.571	0.107	ug/L		05/14/24 14:39	05/18/24 01:41	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:39	05/18/24 01:41	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:39	05/18/24 01:41	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:39	05/18/24 01:41	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/18/24 01:41	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Fluorene</b>	<b>0.463</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:39	05/18/24 01:41	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/18/24 01:41	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/18/24 01:41	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/18/24 01:41	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/18/24 01:41	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:41	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Naphthalene</b>	<b>2.41</b>		0.571	0.0944	ug/L		05/14/24 14:39	05/18/24 01:41	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosodiphenylamine	<0.145	U *1	0.571	0.145	ug/L		05/14/24 14:39	05/18/24 01:41	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/18/24 01:41	1
<b>Phenanthrene</b>	<b>0.443</b>	<b>J</b>	0.571	0.134	ug/L		05/14/24 14:39	05/18/24 01:41	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/18/24 01:41	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/18/24 01:41	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:39	05/18/24 01:41	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:39	05/18/24 01:41	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:39	05/18/24 01:41	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:39	05/18/24 01:41	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/18/24 01:41	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/18/24 01:41	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/18/24 01:41	1
3,3'-Dimethylbenzidine	<0.142	U * -	0.571	0.142	ug/L		05/14/24 14:39	05/18/24 01:41	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:39	05/18/24 01:41	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:39	05/18/24 01:41	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 01:41	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:39	05/18/24 01:41	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:39	05/18/24 01:41	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 01:41	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/18/24 01:41	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 01:41	1
Diallate Peak 1	<0.0835	U *1	0.571	0.0835	ug/L		05/14/24 14:39	05/18/24 01:41	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/18/24 01:41	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:39	05/18/24 01:41	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:39	05/18/24 01:41	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/18/24 01:41	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/18/24 01:41	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:39	05/18/24 01:41	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:39	05/18/24 01:41	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/18/24 01:41	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 01:41	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/18/24 01:41	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/18/24 01:41	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/18/24 01:41	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/18/24 01:41	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/18/24 01:41	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/18/24 01:41	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/18/24 01:41	1
p-Dimethylamino azobenzene	<0.0238	U ** *1	0.571	0.0238	ug/L		05/14/24 14:39	05/18/24 01:41	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:41	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:41	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/18/24 01:41	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/18/24 01:41	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:39	05/18/24 01:41	1
Safrole, Total	<0.0571	U *1	0.571	0.0571	ug/L		05/14/24 14:39	05/18/24 01:41	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/18/24 01:41	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/18/24 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	125		35 - 130	05/14/24 14:39	05/18/24 01:41	1
2-Fluorobiphenyl	106		43 - 130	05/14/24 14:39	05/18/24 01:41	1
2-Fluorophenol (Surr)	100		19 - 120	05/14/24 14:39	05/18/24 01:41	1
Nitrobenzene-d5 (Surr)	127		37 - 133	05/14/24 14:39	05/18/24 01:41	1
Phenol-d5 (Surr)	73		8 - 124	05/14/24 14:39	05/18/24 01:41	1
p-Terphenyl-d14	126		47 - 130	05/14/24 14:39	05/18/24 01:41	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phenol</b>	<b>25.2</b>	<b>J</b>	57.1	8.96	ug/L		05/14/24 14:39	05/21/24 23:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130	05/14/24 14:39	05/21/24 23:23	20
2-Fluorobiphenyl	129		43 - 130	05/14/24 14:39	05/21/24 23:23	20
2-Fluorophenol (Surr)	112		19 - 120	05/14/24 14:39	05/21/24 23:23	20
Nitrobenzene-d5 (Surr)	152	S1+	37 - 133	05/14/24 14:39	05/21/24 23:23	20
Phenol-d5 (Surr)	95		8 - 124	05/14/24 14:39	05/21/24 23:23	20
p-Terphenyl-d14	141	S1+	47 - 130	05/14/24 14:39	05/21/24 23:23	20

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/10/24 09:50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	12500		571	91.0	ug/L		05/14/24 14:39	05/21/24 23:52	1000
1,1'-Biphenyl	2640		571	98.1	ug/L		05/14/24 14:39	05/21/24 23:52	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/14/24 14:39	05/21/24 23:52	1000
2-Fluorobiphenyl	0	S1-	43 - 130	05/14/24 14:39	05/21/24 23:52	1000
2-Fluorophenol (Surr)	0	S1-	19 - 120	05/14/24 14:39	05/21/24 23:52	1000
Nitrobenzene-d5 (Surr)	0	S1-	37 - 133	05/14/24 14:39	05/21/24 23:52	1000
Phenol-d5 (Surr)	0	S1-	8 - 124	05/14/24 14:39	05/21/24 23:52	1000
p-Terphenyl-d14	0	S1-	47 - 130	05/14/24 14:39	05/21/24 23:52	1000

# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-74003-1	MW-34-SR	103	100	98	100
860-74003-2	MW-129-S	101	98	97	100
860-74003-3	MW-34DR	100	102	96	100
860-74003-4	MW-129-D	101	100	97	101
860-74003-5	MW-32-D	102	101	98	101
860-74003-6	MW-27-D	101	100	95	100
860-74003-6 MS	MW-27-D	98	103	99	99
860-74003-6 MSD	MW-27-D	97	100	99	100
860-74003-7	RB-02	104	101	97	101
860-74003-8	MW-31-D	101	99	98	97
860-74003-9	MW-25	103	98	98	100
860-74003-10	TB-05	101	100	99	101
860-74003-10 - RA	TB-05	102	99	99	102
860-74003-11	MW-33-S	100	100	98	99
860-74003-12	FB-02	103	102	98	102
860-74003-13	MW-33-D	103	96	99	98
860-74003-14	DUPE-02	102	98	98	100
LCS 860-160449/3	Lab Control Sample	98	101	97	98
LCS 860-160545/3	Lab Control Sample	96	100	99	101
LCSD 860-160449/4	Lab Control Sample Dup	96	100	100	98
LCSD 860-160545/4	Lab Control Sample Dup	96	100	97	101
MB 860-160449/10	Method Blank	102	101	97	101
MB 860-160545/9	Method Blank	102	101	98	99

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74003-1	MW-34-SR	133 S1+	129	103	146 S1+	72	115
860-74003-1 - RE	MW-34-SR	113	98	74	109	50	85
860-74003-2	MW-129-S	135 S1+	128	107	151 S1+	74	116
860-74003-3	MW-34DR	123	119	104	141 S1+	75	133 S1+
860-74003-3 - DL	MW-34DR	147 S1+	156 S1+	229 S1+	163 S1+	206 S1+	160 S1+
860-74003-3 - RE	MW-34DR	119	115	76	125	48	98
860-74003-3 - REDL	MW-34DR	369 S1+	162 S1+	365 S1+	180 S1+	483 S1+	838 S1+
860-74003-4	MW-129-D	130	128	105	158 S1+	72	105
860-74003-4 - RE	MW-129-D	118	104	83	112	56	90
860-74003-5	MW-32-D	120	121	110	136 S1+	82	130
860-74003-5 - RE	MW-32-D	106	97	83	103	63	91
860-74003-6	MW-27-D	148 S1+	137 S1+	103	151 S1+	72	110
860-74003-6 - RE	MW-27-D	113	91	77	106	53	80
860-74003-6 MS	MW-27-D	145 S1+	133 S1+	105	153 S1+	72	97

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# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74003-6 MS	MW-27-D	112	100	84	113	62	93
860-74003-6 MSD	MW-27-D	137 S1+	126	113	148 S1+	83	111
860-74003-6 MSD	MW-27-D	109	96	80	117	58	86
860-74003-7	RB-02	108	128	88	150 S1+	80	109
860-74003-7 - RE	RB-02	77	93	54	107	53	86
860-74003-8	MW-31-D	129	121	101	141 S1+	70	101
860-74003-9	MW-25	110	99	97	132	68	110
860-74003-11	MW-33-S	130	112	105	139 S1+	75	103
860-74003-11 - DL	MW-33-S	147 S1+	112	213 S1+	142 S1+	196 S1+	133 S1+
860-74003-13	MW-33-D	144 S1+	119	111	145 S1+	85	128
860-74003-13 - DL	MW-33-D	169 S1+	146 S1+	126 S1+	164 S1+	109	162 S1+
860-74003-13 - DL2	MW-33-D	0 S1-	0 S1-	295 S1+	0 S1-	0 S1-	181 S1+
860-74003-14	DUPE-02	125	106	100	127	73	126
860-74003-14 - DL	DUPE-02	145 S1+	129	112	152 S1+	95	141 S1+
860-74003-14 - DL2	DUPE-02	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
LCS 860-160178/2-A	Lab Control Sample	157 S1+	125	86	192 S1+	39	113
LCS 860-160178/4-A	Lab Control Sample	147 S1+	130	79	188 S1+	57	124
LCS 860-161375/2-A	Lab Control Sample	92	98	74	116	52	92
LCS 860-161375/4-A	Lab Control Sample	94	102	77	121	56	90
LCSD 860-160178/3-A	Lab Control Sample Dup	156 S1+	122	86	186 S1+	53	117
LCSD 860-160178/5-A	Lab Control Sample Dup	147 S1+	131 S1+	82	191 S1+	57	119
LCSD 860-161375/3-A	Lab Control Sample Dup	101	98	70	115	48	99
LCSD 860-161375/5-A	Lab Control Sample Dup	96	104	75	123	56	99
MB 860-160178/1-A	Method Blank	164 S1+	136 S1+	75	205 S1+	29	126
MB 860-161375/1-A	Method Blank	86	88	66	105	44	94

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-160449/10**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/15/24 22:02	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/15/24 22:02	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/15/24 22:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/15/24 22:02	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/15/24 22:02	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/15/24 22:02	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/15/24 22:02	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/15/24 22:02	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/15/24 22:02	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/15/24 22:02	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/15/24 22:02	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/15/24 22:02	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/15/24 22:02	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/15/24 22:02	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/15/24 22:02	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/15/24 22:02	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/15/24 22:02	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/15/24 22:02	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/15/24 22:02	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/15/24 22:02	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/15/24 22:02	1
Acetone	<3.07	U	100	3.07	ug/L			05/15/24 22:02	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/15/24 22:02	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/15/24 22:02	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/15/24 22:02	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/15/24 22:02	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/15/24 22:02	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/15/24 22:02	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/15/24 22:02	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/15/24 22:02	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/15/24 22:02	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/15/24 22:02	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/15/24 22:02	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/15/24 22:02	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/15/24 22:02	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/15/24 22:02	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/15/24 22:02	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/15/24 22:02	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/15/24 22:02	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/15/24 22:02	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/15/24 22:02	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/15/24 22:02	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/15/24 22:02	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/15/24 22:02	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/15/24 22:02	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/15/24 22:02	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/15/24 22:02	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/15/24 22:02	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160449/10**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/15/24 22:02	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/15/24 22:02	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/15/24 22:02	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/15/24 22:02	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/15/24 22:02	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/15/24 22:02	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/15/24 22:02	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/15/24 22:02	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/15/24 22:02	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/15/24 22:02	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/15/24 22:02	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/15/24 22:02	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/15/24 22:02	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/15/24 22:02	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/15/24 22:02	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/15/24 22:02	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/15/24 22:02	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/15/24 22:02	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/15/24 22:02	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/15/24 22:02	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/15/24 22:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/15/24 22:02	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/15/24 22:02	1
Dibromofluoromethane (Surr)	97		75 - 131		05/15/24 22:02	1
Toluene-d8 (Surr)	101		80 - 120		05/15/24 22:02	1

**Lab Sample ID: LCS 860-160449/3**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.49		ug/L		107	72 - 125
1,1,1-Trichloroethane	50.0	53.90		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.47		ug/L		107	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.06		ug/L		106	60 - 140
1,1,2-Trichloroethane	50.0	53.66		ug/L		107	75 - 130
1,1-Dichloroethane	50.0	51.21		ug/L		102	71 - 130
1,1-Dichloroethene	50.0	52.28		ug/L		105	50 - 150
1,2,3-Trichloropropane	50.0	52.52		ug/L		105	75 - 125
1,2,4-Trimethylbenzene	50.0	56.48		ug/L		113	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	57.46		ug/L		115	59 - 125
1,2-Dibromoethane	50.0	53.25		ug/L		106	73 - 125
1,2-Dichloroethane	50.0	52.27		ug/L		105	72 - 130
1,2-Dichloropropane	50.0	52.74		ug/L		105	74 - 125
1,3,5-Trimethylbenzene	50.0	54.73		ug/L		109	60 - 140
1,3-Butadiene	50.0	51.36		ug/L		103	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160449/3**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	53.03		ug/L		106	70 - 130
2-Butanone (MEK)	250	274.9		ug/L		110	60 - 140
2-Hexanone (MBK)	250	275.0		ug/L		110	60 - 140
2-Propanol	500	504.3		ug/L		101	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	51.69		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	270.1		ug/L		108	60 - 140
Acetone	250	276.0		ug/L		110	60 - 140
Acetonitrile	500	483.8		ug/L		97	60 - 140
Acrolein	250	256.7		ug/L		103	60 - 140
Acrylonitrile	500	519.1		ug/L		104	60 - 140
alpha-Chlorotoluene	50.0	62.28		ug/L		125	75 - 125
Benzene	50.0	53.01		ug/L		106	75 - 125
Bromodichloromethane	50.0	53.38		ug/L		107	75 - 125
Bromoform	50.0	53.55		ug/L		107	70 - 130
Bromomethane	50.0	51.74		ug/L		103	60 - 140
Carbon disulfide	50.0	51.93		ug/L		104	60 - 140
Carbon tetrachloride	50.0	52.79		ug/L		106	70 - 125
Chlorobenzene	50.0	52.67		ug/L		105	82 - 135
Chlorodibromomethane	50.0	53.41		ug/L		107	73 - 125
Chloroethane	50.0	52.91		ug/L		106	60 - 140
Chloroform	50.0	51.77		ug/L		104	70 - 121
Chloromethane	50.0	47.79		ug/L		96	60 - 140
Chloroprene	50.0	55.15		ug/L		110	70 - 130
cis-1,2-Dichloroethene	50.0	53.31		ug/L		107	75 - 125
cis-1,3-Dichloropropene	50.0	53.58		ug/L		107	74 - 125
Cumene (isopropylbenzene)	50.0	55.56		ug/L		111	75 - 125
Cyclohexane	50.0	53.01		ug/L		106	70 - 130
Dibromomethane	50.0	52.62		ug/L		105	69 - 127
Dichlorodifluoromethane	50.0	46.46		ug/L		93	50 - 150
Ethyl methacrylate	50.0	56.14		ug/L		112	70 - 130
Ethylbenzene	50.0	54.80		ug/L		110	75 - 125
Hexane	50.0	51.15		ug/L		102	72 - 125
Iodomethane	50.0	49.89		ug/L		100	75 - 125
Isobutanol	1240	1376		ug/L		111	60 - 140
Methacrylonitrile	500	534.3		ug/L		107	70 - 130
Methyl methacrylate	100	106.7		ug/L		107	70 - 130
Methyl tert-butyl ether	50.0	53.28		ug/L		107	65 - 135
Methylene Chloride	50.0	50.01		ug/L		100	71 - 125
Propionitrile	500	525.8		ug/L		105	70 - 130
Propylbenzene	50.0	55.04		ug/L		110	75 - 125
Styrene	50.0	55.88		ug/L		112	75 - 125
Tetrachloroethene	50.0	52.51		ug/L		105	71 - 125
Tetrahydrofuran	100	107.8		ug/L		108	75 - 125
Toluene	50.0	53.80		ug/L		108	75 - 130
trans-1,2-Dichloroethene	50.0	52.69		ug/L		105	75 - 125
trans-1,3-Dichloropropene	50.0	54.89		ug/L		110	66 - 125
trans-1,4-Dichloro-2-butene	50.0	52.82		ug/L		106	70 - 130
Trichloroethene	50.0	53.11		ug/L		106	75 - 135
Trichlorofluoromethane	50.0	53.03		ug/L		106	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160449/3**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	273.1		ug/L		109	60 - 140
Vinyl chloride	50.0	51.14		ug/L		102	60 - 140
Xylenes, Total	100	110.5		ug/L		110	75 - 125
m,p-Xylenes	0.0500	0.05463		mg/L		109	75 - 125
o-Xylene	0.0500	0.05585		mg/L		112	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: LCSD 860-160449/4**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	49.80		ug/L		100	72 - 125	7	25
1,1,1-Trichloroethane	50.0	54.26		ug/L		109	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	48.92		ug/L		98	74 - 125	9	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.12		ug/L		114	60 - 140	7	25
1,1,2-Trichloroethane	50.0	48.30		ug/L		97	75 - 130	10	25
1,1-Dichloroethane	50.0	48.92		ug/L		98	71 - 130	5	25
1,1-Dichloroethene	50.0	56.13		ug/L		112	50 - 150	7	25
1,2,3-Trichloropropane	50.0	48.94		ug/L		98	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	53.69		ug/L		107	75 - 125	5	25
1,2-Dibromo-3-Chloropropane	50.0	53.61		ug/L		107	59 - 125	7	25
1,2-Dibromoethane	50.0	47.91		ug/L		96	73 - 125	11	25
1,2-Dichloroethane	50.0	47.25		ug/L		94	72 - 130	10	25
1,2-Dichloropropane	50.0	49.47		ug/L		99	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	53.26		ug/L		107	60 - 140	3	25
1,3-Butadiene	50.0	54.05		ug/L		108	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	57.86		ug/L		116	70 - 130	9	25
2-Butanone (MEK)	250	268.2		ug/L		107	60 - 140	2	25
2-Hexanone (MBK)	250	254.2		ug/L		102	60 - 140	8	25
2-Propanol	500	472.9		ug/L		95	70 - 120	6	25
3-Chloropropene (Allyl Chloride)	50.0	50.45		ug/L		101	70 - 130	2	25
4-Methyl-2-pentanone	250	256.4		ug/L		103	60 - 140	5	25
Acetone	250	252.3		ug/L		101	60 - 140	9	25
Acetonitrile	500	483.7		ug/L		97	60 - 140	0	25
Acrolein	250	260.8		ug/L		104	60 - 140	2	25
Acrylonitrile	500	505.3		ug/L		101	60 - 140	3	25
alpha-Chlorotoluene	50.0	55.94		ug/L		112	75 - 125	11	25
Benzene	50.0	50.05		ug/L		100	75 - 125	6	25
Bromodichloromethane	50.0	48.89		ug/L		98	75 - 125	9	25
Bromoform	50.0	49.62		ug/L		99	70 - 130	8	25
Bromomethane	50.0	47.11		ug/L		94	60 - 140	9	25
Carbon disulfide	50.0	52.12		ug/L		104	60 - 140	0	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160449/4**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	55.55		ug/L		111	70 - 125	5	25
Chlorobenzene	50.0	48.60		ug/L		97	82 - 135	8	25
Chlorodibromomethane	50.0	48.14		ug/L		96	73 - 125	10	25
Chloroethane	50.0	46.68		ug/L		93	60 - 140	13	25
Chloroform	50.0	48.88		ug/L		98	70 - 121	6	25
Chloromethane	50.0	44.80		ug/L		90	60 - 140	6	25
Chloroprene	50.0	55.54		ug/L		111	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	50.89		ug/L		102	75 - 125	5	25
cis-1,3-Dichloropropene	50.0	49.14		ug/L		98	74 - 125	9	25
Cumene (isopropylbenzene)	50.0	54.19		ug/L		108	75 - 125	2	25
Cyclohexane	50.0	58.33		ug/L		117	70 - 130	10	25
Dibromomethane	50.0	48.55		ug/L		97	69 - 127	8	25
Dichlorodifluoromethane	50.0	49.46		ug/L		99	50 - 150	6	25
Ethyl methacrylate	50.0	50.83		ug/L		102	70 - 130	10	25
Ethylbenzene	50.0	51.77		ug/L		104	75 - 125	6	25
Hexane	50.0	58.60		ug/L		117	72 - 125	14	25
Iodomethane	50.0	48.37		ug/L		97	75 - 125	3	25
Isobutanol	1240	1289		ug/L		104	60 - 140	6	25
Methacrylonitrile	500	511.9		ug/L		102	70 - 130	4	25
Methyl methacrylate	100	99.98		ug/L		100	70 - 130	6	25
Methyl tert-butyl ether	50.0	51.14		ug/L		102	65 - 135	4	25
Methylene Chloride	50.0	46.03		ug/L		92	71 - 125	8	25
Propionitrile	500	516.2		ug/L		103	70 - 130	2	25
Propylbenzene	50.0	54.54		ug/L		109	75 - 125	1	25
Styrene	50.0	50.25		ug/L		101	75 - 125	11	25
Tetrachloroethene	50.0	52.64		ug/L		105	71 - 125	0	25
Tetrahydrofuran	100	107.5		ug/L		108	75 - 125	0	25
Toluene	50.0	50.11		ug/L		100	75 - 130	7	25
trans-1,2-Dichloroethene	50.0	52.18		ug/L		104	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	49.90		ug/L		100	66 - 125	10	25
trans-1,4-Dichloro-2-butene	50.0	49.23		ug/L		98	70 - 130	7	25
Trichloroethene	50.0	51.41		ug/L		103	75 - 135	3	25
Trichlorofluoromethane	50.0	55.63		ug/L		111	60 - 140	5	25
Vinyl acetate	250	259.5		ug/L		104	60 - 140	5	25
Vinyl chloride	50.0	49.90		ug/L		100	60 - 140	2	25
Xylenes, Total	100	103.7		ug/L		104	75 - 125	6	25
m,p-Xylenes	0.0500	0.05246		mg/L		105	75 - 125	4	25
o-Xylene	0.0500	0.05121		mg/L		102	75 - 125	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	98		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	52.10		ug/L		104	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	52.13		ug/L		104	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	52.50		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	47.46		ug/L		95	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.56		ug/L		103	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	50.49		ug/L		101	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	49.56		ug/L		99	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	53.07		ug/L		106	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	55.39		ug/L		111	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	56.29		ug/L		113	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	51.81		ug/L		104	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	48.89		ug/L		98	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	51.45		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	53.56		ug/L		107	70 - 125
1,3-Butadiene	<0.568	U	50.0	37.06		ug/L		74	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	49.38		ug/L		99	70 - 130
2-Butanone (MEK)	<8.28	U	250	260.7		ug/L		104	60 - 140
2-Hexanone (MBK)	<7.45	U	250	263.3		ug/L		105	60 - 140
2-Propanol	<5.23	U	500	497.2		ug/L		99	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	53.00		ug/L		106	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	259.7		ug/L		104	60 - 140
Acetone	<3.07	U	250	253.5		ug/L		101	60 - 140
Acetonitrile	<14.6	U	500	483.1		ug/L		97	60 - 140
Acrolein	<11.1	U	250	226.6		ug/L		91	50 - 150
Acrylonitrile	<14.3	U	500	502.2		ug/L		100	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	56.68		ug/L		113	70 - 130
Benzene	<0.460	U	50.0	51.99		ug/L		104	66 - 142
Bromodichloromethane	<0.552	U	50.0	52.92		ug/L		106	75 - 125
Bromoform	<0.633	U	50.0	53.94		ug/L		108	75 - 125
Bromomethane	<1.42	U	50.0	38.38		ug/L		77	60 - 140
Carbon disulfide	<1.65	U	50.0	46.14		ug/L		92	60 - 140
Carbon tetrachloride	<0.896	U	50.0	52.91		ug/L		106	62 - 125
Chlorobenzene	<0.455	U	50.0	51.77		ug/L		104	60 - 133
Chlorodibromomethane	<0.547	U	50.0	51.41		ug/L		103	73 - 125
Chloroethane	<1.98	U	50.0	38.64		ug/L		77	60 - 140
Chloroform	<0.464	U	50.0	49.62		ug/L		99	70 - 130
Chloromethane	<2.04	U	50.0	33.20		ug/L		66	60 - 140
Chloroprene	<0.598	U	50.0	50.75		ug/L		101	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	51.97		ug/L		104	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	52.08		ug/L		104	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	54.64		ug/L		109	75 - 125
Cyclohexane	<1.29	U	50.0	50.15		ug/L		100	70 - 130
Dibromomethane	<0.357	U	50.0	50.91		ug/L		102	69 - 127
Dichlorodifluoromethane	<0.785	U F1	50.0	24.29	F1	ug/L		49	70 - 130
Ethyl methacrylate	<1.12	U	50.0	54.78		ug/L		110	70 - 130
Ethylbenzene	<0.385	U	50.0	53.37		ug/L		107	75 - 125
Hexane	<0.517	U	50.0	46.41		ug/L		93	72 - 125
Iodomethane	<6.52	U	50.0	44.51		ug/L		89	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1381		ug/L		111	60 - 140
Methacrylonitrile	<2.72	U	500	501.3		ug/L		100	70 - 130
Methyl methacrylate	<2.25	U	100	111.1		ug/L		111	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	51.22		ug/L		102	65 - 135
Methylene Chloride	<1.73	U	50.0	44.89		ug/L		90	75 - 125
Propionitrile	<3.34	U	500	524.7		ug/L		105	70 - 130
Propylbenzene	<0.429	U	50.0	54.25		ug/L		108	75 - 125
Styrene	<0.619	U	50.0	54.40		ug/L		109	75 - 125
Tetrachloroethene	<0.655	U	50.0	52.04		ug/L		104	71 - 125
Tetrahydrofuran	<1.83	U	100	105.7		ug/L		106	75 - 125
Toluene	<0.475	U	50.0	51.98		ug/L		104	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	50.19		ug/L		100	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	52.98		ug/L		106	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	52.75		ug/L		105	70 - 130
Trichloroethene	<1.50	U	50.0	52.39		ug/L		105	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	41.11		ug/L		82	60 - 140
Vinyl acetate	<2.14	U	250	256.8		ug/L		103	60 - 140
Vinyl chloride	<0.428	U	50.0	36.95		ug/L		74	60 - 140
Xylenes, Total	<1.24	U	100	108.1		ug/L		108	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05410		mg/L		108	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05397		mg/L		108	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	56.66		ug/L		113	72 - 125	8	25
1,1,1-Trichloroethane	<0.585	U	50.0	56.14		ug/L		112	75 - 125	7	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	56.65		ug/L		113	74 - 125	8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	53.54		ug/L		107	60 - 140	12	25
1,1,2-Trichloroethane	<0.411	U	50.0	56.24		ug/L		112	75 - 127	9	25
1,1-Dichloroethane	<0.635	U	50.0	53.34		ug/L		107	72 - 125	5	25
1,1-Dichloroethene	<0.738	U	50.0	52.72		ug/L		105	59 - 172	6	25
1,2,3-Trichloropropane	<0.470	U	50.0	54.78		ug/L		110	75 - 125	3	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	58.77		ug/L		118	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	61.96		ug/L		124	59 - 125	10	25
1,2-Dibromoethane	<0.999	U	50.0	55.75		ug/L		111	73 - 125	7	25
1,2-Dichloroethane	<0.372	U	50.0	53.46		ug/L		107	68 - 127	9	25
1,2-Dichloropropane	<0.556	U	50.0	54.42		ug/L		109	74 - 125	6	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	57.17		ug/L		114	70 - 125	7	25
1,3-Butadiene	<0.568	U	50.0	40.39		ug/L		81	70 - 150	9	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	53.99		ug/L		108	70 - 130	9	25
2-Butanone (MEK)	<8.28	U	250	281.4		ug/L		113	60 - 140	8	25
2-Hexanone (MBK)	<7.45	U	250	290.1		ug/L		116	60 - 140	10	25
2-Propanol	<5.23	U	500	537.5		ug/L		108	70 - 120	8	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	50.85		ug/L		102	70 - 130	4	25
4-Methyl-2-pentanone	<7.49	U	250	281.7		ug/L		113	60 - 140	8	25
Acetone	<3.07	U	250	279.0		ug/L		112	60 - 140	10	25
Acetonitrile	<14.6	U	500	519.0		ug/L		104	60 - 140	7	25
Acrolein	<11.1	U	250	251.1		ug/L		100	50 - 150	10	25
Acrylonitrile	<14.3	U	500	540.8		ug/L		108	50 - 150	7	25
alpha-Chlorotoluene	<2.26	U	50.0	60.66		ug/L		121	70 - 130	7	25
Benzene	<0.460	U	50.0	54.09		ug/L		108	66 - 142	4	25
Bromodichloromethane	<0.552	U	50.0	55.46		ug/L		111	75 - 125	5	25
Bromoform	<0.633	U	50.0	58.41		ug/L		117	75 - 125	8	25
Bromomethane	<1.42	U	50.0	40.92		ug/L		82	60 - 140	6	25
Carbon disulfide	<1.65	U	50.0	49.26		ug/L		99	60 - 140	7	25
Carbon tetrachloride	<0.896	U	50.0	55.57		ug/L		111	62 - 125	5	25
Chlorobenzene	<0.455	U	50.0	55.98		ug/L		112	60 - 133	8	25
Chlorodibromomethane	<0.547	U	50.0	55.71		ug/L		111	73 - 125	8	25
Chloroethane	<1.98	U	50.0	43.83		ug/L		88	60 - 140	13	25
Chloroform	<0.464	U	50.0	53.24		ug/L		106	70 - 130	7	25
Chloromethane	<2.04	U	50.0	36.03		ug/L		72	60 - 140	8	25
Chloroprene	<0.598	U	50.0	55.36		ug/L		111	70 - 130	9	25
cis-1,2-Dichloroethene	<0.457	U	50.0	54.26		ug/L		109	75 - 125	4	25
cis-1,3-Dichloropropene	<1.07	U	50.0	55.68		ug/L		111	74 - 125	7	25
Cumene (isopropylbenzene)	<0.592	U	50.0	59.77		ug/L		120	75 - 125	9	25
Cyclohexane	<1.29	U	50.0	54.56		ug/L		109	70 - 130	8	25
Dibromomethane	<0.357	U	50.0	54.24		ug/L		108	69 - 127	6	25
Dichlorodifluoromethane	<0.785	U F1	50.0	26.56	F1	ug/L		53	70 - 130	9	25
Ethyl methacrylate	<1.12	U	50.0	59.34		ug/L		119	70 - 130	8	25
Ethylbenzene	<0.385	U	50.0	57.97		ug/L		116	75 - 125	8	25
Hexane	<0.517	U	50.0	50.15		ug/L		100	72 - 125	8	25
Iodomethane	<6.52	U	50.0	47.08		ug/L		94	75 - 125	6	25
Isobutanol	<17.1	U	1240	1525		ug/L		123	60 - 140	10	25
Methacrylonitrile	<2.72	U	500	540.0		ug/L		108	70 - 130	7	25
Methyl methacrylate	<2.25	U	100	120.2		ug/L		120	70 - 130	8	25
Methyl tert-butyl ether	<1.39	U	50.0	54.61		ug/L		109	65 - 135	6	25
Methylene Chloride	<1.73	U	50.0	47.59		ug/L		95	75 - 125	6	25
Propionitrile	<3.34	U	500	575.4		ug/L		115	70 - 130	9	25
Propylbenzene	<0.429	U	50.0	58.05		ug/L		116	75 - 125	7	25
Styrene	<0.619	U	50.0	59.11		ug/L		118	75 - 125	8	25
Tetrachloroethene	<0.655	U	50.0	56.46		ug/L		113	71 - 125	8	25
Tetrahydrofuran	<1.83	U	100	116.7		ug/L		117	75 - 125	10	25
Toluene	<0.475	U	50.0	56.05		ug/L		112	59 - 139	8	25
trans-1,2-Dichloroethene	<0.368	U	50.0	52.24		ug/L		104	75 - 125	4	25
trans-1,3-Dichloropropene	<1.27	U	50.0	57.37		ug/L		115	66 - 125	8	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	56.40		ug/L		113	70 - 130	7	25
Trichloroethene	<1.50	U	50.0	55.67		ug/L		111	62 - 137	6	25
Trichlorofluoromethane	<0.560	U	50.0	45.10		ug/L		90	60 - 140	9	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 160449**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	<2.14	U	250	274.6		ug/L		110	60 - 140	7	25
Vinyl chloride	<0.428	U	50.0	39.39		ug/L		79	60 - 140	6	25
Xylenes, Total	<1.24	U	100	117.1		ug/L		117	75 - 125	8	25
m,p-Xylenes	<0.00124	U	0.0500	0.05875		mg/L		117	75 - 125	8	25
o-Xylene	<0.000502	U	0.0500	0.05834		mg/L		117	75 - 125	8	25
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		63 - 144								
4-Bromofluorobenzene (Surr)	100		74 - 124								
Dibromofluoromethane (Surr)	99		75 - 131								
Toluene-d8 (Surr)	100		80 - 120								

**Lab Sample ID: MB 860-160545/9**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/16/24 10:01	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/16/24 10:01	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/16/24 10:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/16/24 10:01	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/16/24 10:01	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/16/24 10:01	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/16/24 10:01	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/16/24 10:01	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/16/24 10:01	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/16/24 10:01	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/16/24 10:01	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/16/24 10:01	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/16/24 10:01	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/16/24 10:01	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/16/24 10:01	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/16/24 10:01	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/16/24 10:01	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/16/24 10:01	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/16/24 10:01	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/16/24 10:01	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/16/24 10:01	1
Acetone	<3.07	U	100	3.07	ug/L			05/16/24 10:01	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/16/24 10:01	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/16/24 10:01	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/16/24 10:01	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/16/24 10:01	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/16/24 10:01	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/16/24 10:01	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/16/24 10:01	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/16/24 10:01	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/16/24 10:01	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160545/9**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/16/24 10:01	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/16/24 10:01	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/16/24 10:01	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/16/24 10:01	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/16/24 10:01	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/16/24 10:01	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/16/24 10:01	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/16/24 10:01	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/16/24 10:01	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/16/24 10:01	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/16/24 10:01	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/16/24 10:01	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/16/24 10:01	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/16/24 10:01	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/16/24 10:01	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/16/24 10:01	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/16/24 10:01	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/16/24 10:01	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/16/24 10:01	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/16/24 10:01	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/16/24 10:01	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/16/24 10:01	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/16/24 10:01	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/16/24 10:01	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/16/24 10:01	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/16/24 10:01	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/16/24 10:01	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/16/24 10:01	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/16/24 10:01	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/16/24 10:01	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/16/24 10:01	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/16/24 10:01	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/16/24 10:01	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/16/24 10:01	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/16/24 10:01	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/16/24 10:01	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/16/24 10:01	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/16/24 10:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/16/24 10:01	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/16/24 10:01	1
Dibromofluoromethane (Surr)	98		75 - 131		05/16/24 10:01	1
Toluene-d8 (Surr)	99		80 - 120		05/16/24 10:01	1

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160545/3**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.66		ug/L		109	72 - 125
1,1,1-Trichloroethane	50.0	57.04		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.32		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.07		ug/L		114	60 - 140
1,1,2-Trichloroethane	50.0	53.84		ug/L		108	75 - 130
1,1-Dichloroethane	50.0	54.76		ug/L		110	71 - 130
1,1-Dichloroethene	50.0	56.93		ug/L		114	50 - 150
1,2,3-Trichloropropane	50.0	51.57		ug/L		103	75 - 125
1,2,4-Trimethylbenzene	50.0	56.04		ug/L		112	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	55.10		ug/L		110	59 - 125
1,2-Dibromoethane	50.0	53.88		ug/L		108	73 - 125
1,2-Dichloroethane	50.0	52.06		ug/L		104	72 - 130
1,2-Dichloropropane	50.0	53.78		ug/L		108	74 - 125
1,3,5-Trimethylbenzene	50.0	55.14		ug/L		110	60 - 140
1,3-Butadiene	50.0	54.01		ug/L		108	60 - 150
2,2,4-Trimethylpentane	50.0	59.25		ug/L		118	70 - 130
2-Butanone (MEK)	250	262.7		ug/L		105	60 - 140
2-Hexanone (MBK)	250	271.5		ug/L		109	60 - 140
2-Propanol	500	494.6		ug/L		99	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	58.41		ug/L		117	70 - 130
4-Methyl-2-pentanone	250	264.6		ug/L		106	60 - 140
Acetone	250	257.8		ug/L		103	60 - 140
Acetonitrile	500	493.2		ug/L		99	60 - 140
Acrolein	250	242.1		ug/L		97	60 - 140
Acrylonitrile	500	520.9		ug/L		104	60 - 140
alpha-Chlorotoluene	50.0	58.11		ug/L		116	75 - 125
Benzene	50.0	54.72		ug/L		109	75 - 125
Bromodichloromethane	50.0	54.86		ug/L		110	75 - 125
Bromoform	50.0	54.84		ug/L		110	70 - 130
Bromomethane	50.0	53.22		ug/L		106	60 - 140
Carbon disulfide	50.0	53.71		ug/L		107	60 - 140
Carbon tetrachloride	50.0	56.30		ug/L		113	70 - 125
Chlorobenzene	50.0	54.20		ug/L		108	82 - 135
Chlorodibromomethane	50.0	53.65		ug/L		107	73 - 125
Chloroethane	50.0	53.54		ug/L		107	60 - 140
Chloroform	50.0	52.42		ug/L		105	70 - 121
Chloromethane	50.0	49.37		ug/L		99	60 - 140
Chloroprene	50.0	58.31		ug/L		117	70 - 130
cis-1,2-Dichloroethene	50.0	54.95		ug/L		110	75 - 125
cis-1,3-Dichloropropene	50.0	53.91		ug/L		108	74 - 125
Cumene (isopropylbenzene)	50.0	57.88		ug/L		116	75 - 125
Cyclohexane	50.0	57.52		ug/L		115	70 - 130
Dibromomethane	50.0	52.88		ug/L		106	69 - 127
Dichlorodifluoromethane	50.0	48.15		ug/L		96	50 - 150
Ethyl methacrylate	50.0	55.93		ug/L		112	70 - 130
Ethylbenzene	50.0	55.82		ug/L		112	75 - 125
Hexane	50.0	59.92		ug/L		120	72 - 125
Iodomethane	50.0	51.91		ug/L		104	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160545/3**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	1240	1329		ug/L		107	60 - 140
Methacrylonitrile	500	534.4		ug/L		107	70 - 130
Methyl methacrylate	100	106.2		ug/L		106	70 - 130
Methyl tert-butyl ether	50.0	54.10		ug/L		108	65 - 135
Methylene Chloride	50.0	50.23		ug/L		100	71 - 125
Propionitrile	500	520.8		ug/L		104	70 - 130
Propylbenzene	50.0	55.69		ug/L		111	75 - 125
Styrene	50.0	56.31		ug/L		113	75 - 125
Tetrachloroethene	50.0	55.61		ug/L		111	71 - 125
Tetrahydrofuran	100	109.3		ug/L		109	75 - 125
Toluene	50.0	54.91		ug/L		110	75 - 130
trans-1,2-Dichloroethene	50.0	54.07		ug/L		108	75 - 125
trans-1,3-Dichloropropene	50.0	56.33		ug/L		113	66 - 125
trans-1,4-Dichloro-2-butene	50.0	51.51		ug/L		103	70 - 130
Trichloroethene	50.0	55.58		ug/L		111	75 - 135
Trichlorofluoromethane	50.0	54.25		ug/L		109	60 - 140
Vinyl acetate	250	274.1		ug/L		110	60 - 140
Vinyl chloride	50.0	51.36		ug/L		103	60 - 140
Xylenes, Total	100	112.9		ug/L		113	75 - 125
m,p-Xylenes	0.0500	0.05703		mg/L		114	75 - 125
o-Xylene	0.0500	0.05586		mg/L		112	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: LCSD 860-160545/4**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.40		ug/L		105	72 - 125	4	25
1,1,1-Trichloroethane	50.0	52.70		ug/L		105	70 - 130	8	25
1,1,2,2-Tetrachloroethane	50.0	51.67		ug/L		103	74 - 125	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.33		ug/L		109	60 - 140	5	25
1,1,2-Trichloroethane	50.0	52.17		ug/L		104	75 - 130	3	25
1,1-Dichloroethane	50.0	48.88		ug/L		98	71 - 130	11	25
1,1-Dichloroethene	50.0	51.69		ug/L		103	50 - 150	10	25
1,2,3-Trichloropropane	50.0	53.65		ug/L		107	75 - 125	4	25
1,2,4-Trimethylbenzene	50.0	53.24		ug/L		106	75 - 125	5	25
1,2-Dibromo-3-Chloropropane	50.0	54.77		ug/L		110	59 - 125	1	25
1,2-Dibromoethane	50.0	52.73		ug/L		105	73 - 125	2	25
1,2-Dichloroethane	50.0	49.32		ug/L		99	72 - 130	5	25
1,2-Dichloropropane	50.0	50.87		ug/L		102	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	51.85		ug/L		104	60 - 140	6	25
1,3-Butadiene	50.0	51.22		ug/L		102	60 - 150	5	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160545/4**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	50.0	55.88		ug/L		112	70 - 130	6	25
2-Butanone (MEK)	250	265.5		ug/L		106	60 - 140	1	25
2-Hexanone (MBK)	250	271.3		ug/L		109	60 - 140	0	25
2-Propanol	500	490.2		ug/L		98	70 - 120	1	25
3-Chloropropene (Allyl Chloride)	50.0	52.69		ug/L		105	70 - 130	10	25
4-Methyl-2-pentanone	250	263.4		ug/L		105	60 - 140	0	25
Acetone	250	256.3		ug/L		103	60 - 140	1	25
Acetonitrile	500	479.0		ug/L		96	60 - 140	3	25
Acrolein	250	255.7		ug/L		102	60 - 140	5	25
Acrylonitrile	500	510.8		ug/L		102	60 - 140	2	25
alpha-Chlorotoluene	50.0	55.25		ug/L		110	75 - 125	5	25
Benzene	50.0	51.63		ug/L		103	75 - 125	6	25
Bromodichloromethane	50.0	51.32		ug/L		103	75 - 125	7	25
Bromoform	50.0	53.61		ug/L		107	70 - 130	2	25
Bromomethane	50.0	50.40		ug/L		101	60 - 140	5	25
Carbon disulfide	50.0	50.01		ug/L		100	60 - 140	7	25
Carbon tetrachloride	50.0	52.62		ug/L		105	70 - 125	7	25
Chlorobenzene	50.0	50.96		ug/L		102	82 - 135	6	25
Chlorodibromomethane	50.0	51.66		ug/L		103	73 - 125	4	25
Chloroethane	50.0	50.84		ug/L		102	60 - 140	5	25
Chloroform	50.0	49.10		ug/L		98	70 - 121	7	25
Chloromethane	50.0	46.97		ug/L		94	60 - 140	5	25
Chloroprene	50.0	53.74		ug/L		107	70 - 130	8	25
cis-1,2-Dichloroethene	50.0	51.73		ug/L		103	75 - 125	6	25
cis-1,3-Dichloropropene	50.0	51.11		ug/L		102	74 - 125	5	25
Cumene (isopropylbenzene)	50.0	54.24		ug/L		108	75 - 125	7	25
Cyclohexane	50.0	53.53		ug/L		107	70 - 130	7	25
Dibromomethane	50.0	50.05		ug/L		100	69 - 127	5	25
Dichlorodifluoromethane	50.0	47.45		ug/L		95	50 - 150	1	25
Ethyl methacrylate	50.0	55.24		ug/L		110	70 - 130	1	25
Ethylbenzene	50.0	52.62		ug/L		105	75 - 125	6	25
Hexane	50.0	53.72		ug/L		107	72 - 125	11	25
Iodomethane	50.0	49.98		ug/L		100	75 - 125	4	25
Isobutanol	1240	1341		ug/L		108	60 - 140	1	25
Methacrylonitrile	500	518.2		ug/L		104	70 - 130	3	25
Methyl methacrylate	100	105.9		ug/L		106	70 - 130	0	25
Methyl tert-butyl ether	50.0	51.95		ug/L		104	65 - 135	4	25
Methylene Chloride	50.0	47.20		ug/L		94	71 - 125	6	25
Propionitrile	500	519.8		ug/L		104	70 - 130	0	25
Propylbenzene	50.0	52.84		ug/L		106	75 - 125	5	25
Styrene	50.0	53.28		ug/L		107	75 - 125	6	25
Tetrachloroethene	50.0	53.00		ug/L		106	71 - 125	5	25
Tetrahydrofuran	100	109.5		ug/L		109	75 - 125	0	25
Toluene	50.0	51.88		ug/L		104	75 - 130	6	25
trans-1,2-Dichloroethene	50.0	50.59		ug/L		101	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	53.80		ug/L		108	66 - 125	5	25
trans-1,4-Dichloro-2-butene	50.0	50.59		ug/L		101	70 - 130	2	25
Trichloroethene	50.0	52.03		ug/L		104	75 - 135	7	25
Trichlorofluoromethane	50.0	52.19		ug/L		104	60 - 140	4	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160545/4**  
**Matrix: Water**  
**Analysis Batch: 160545**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	250	263.6		ug/L		105	60 - 140	4	25
Vinyl chloride	50.0	50.26		ug/L		101	60 - 140	2	25
Xylenes, Total	100	106.4		ug/L		106	75 - 125	6	25
m,p-Xylenes	0.0500	0.05343		mg/L		107	75 - 125	7	25
o-Xylene	0.0500	0.05294		mg/L		106	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	101		80 - 120

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-160178/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 14:39	05/15/24 18:32	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:39	05/15/24 18:32	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:39	05/15/24 18:32	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:39	05/15/24 18:32	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/15/24 18:32	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:39	05/15/24 18:32	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:39	05/15/24 18:32	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:39	05/15/24 18:32	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160178/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]anthracene	0.01008	J I	0.0286	0.00953	ug/L		05/14/24 14:39	05/15/24 18:32	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:39	05/15/24 18:32	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 14:39	05/15/24 18:32	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:39	05/15/24 18:32	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:39	05/15/24 18:32	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:39	05/15/24 18:32	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:39	05/15/24 18:32	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:39	05/15/24 18:32	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 14:39	05/15/24 18:32	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/15/24 18:32	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:39	05/15/24 18:32	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:39	05/15/24 18:32	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/15/24 18:32	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 14:39	05/15/24 18:32	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 14:39	05/15/24 18:32	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 14:39	05/15/24 18:32	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:39	05/15/24 18:32	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:39	05/15/24 18:32	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:39	05/15/24 18:32	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:39	05/15/24 18:32	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:39	05/15/24 18:32	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:39	05/15/24 18:32	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:39	05/15/24 18:32	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/15/24 18:32	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:39	05/15/24 18:32	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:39	05/15/24 18:32	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:39	05/15/24 18:32	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:39	05/15/24 18:32	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:39	05/15/24 18:32	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:39	05/15/24 18:32	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:39	05/15/24 18:32	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:39	05/15/24 18:32	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 14:39	05/15/24 18:32	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:39	05/15/24 18:32	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 14:39	05/15/24 18:32	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 14:39	05/15/24 18:32	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 14:39	05/15/24 18:32	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 14:39	05/15/24 18:32	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160178/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:39	05/15/24 18:32	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:39	05/15/24 18:32	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:39	05/15/24 18:32	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 14:39	05/15/24 18:32	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:39	05/15/24 18:32	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 14:39	05/15/24 18:32	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/15/24 18:32	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 14:39	05/15/24 18:32	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 14:39	05/15/24 18:32	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/15/24 18:32	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:39	05/15/24 18:32	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/15/24 18:32	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:39	05/15/24 18:32	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:39	05/15/24 18:32	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:39	05/15/24 18:32	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:39	05/15/24 18:32	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:39	05/15/24 18:32	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:39	05/15/24 18:32	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:39	05/15/24 18:32	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:39	05/15/24 18:32	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:39	05/15/24 18:32	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/15/24 18:32	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:39	05/15/24 18:32	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:39	05/15/24 18:32	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:39	05/15/24 18:32	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:39	05/15/24 18:32	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:39	05/15/24 18:32	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:39	05/15/24 18:32	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:39	05/15/24 18:32	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 14:39	05/15/24 18:32	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/15/24 18:32	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 14:39	05/15/24 18:32	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:39	05/15/24 18:32	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:39	05/15/24 18:32	1
Pronamide	0.1761	J I	0.571	0.100	ug/L		05/14/24 14:39	05/15/24 18:32	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:39	05/15/24 18:32	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:39	05/15/24 18:32	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:39	05/15/24 18:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130	05/14/24 14:39	05/15/24 18:32	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160178/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	136	S1+	43 - 130	05/14/24 14:39	05/15/24 18:32	1
2-Fluorophenol (Surr)	75		19 - 120	05/14/24 14:39	05/15/24 18:32	1
Nitrobenzene-d5 (Surr)	205	S1+	37 - 133	05/14/24 14:39	05/15/24 18:32	1
Phenol-d5 (Surr)	29		8 - 124	05/14/24 14:39	05/15/24 18:32	1
p-Terphenyl-d14	126		47 - 130	05/14/24 14:39	05/15/24 18:32	1

**Lab Sample ID: LCS 860-160178/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	2.139		ug/L		75	32 - 130
1,2-Dichlorobenzene	2.86	1.978		ug/L		69	32 - 130
1,3-Dichlorobenzene	2.86	1.832		ug/L		64	26 - 130
1,4-Dichlorobenzene	2.86	1.978		ug/L		69	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.953	I	ug/L		103	10 - 173
2,4,5-Trichlorophenol	2.86	4.214	*+	ug/L		148	35 - 130
2,4,6-Trichlorophenol	2.86	3.679		ug/L		129	52 - 129
2,4-Dichlorophenol	2.86	3.312		ug/L		116	53 - 122
2,4-Dimethylphenol	2.86	1.943		ug/L		68	42 - 120
1,4-Dioxane	2.86	1.232		ug/L		43	27 - 130
2,4-Dinitrophenol	2.86	3.190		ug/L		112	12 - 173
2,4-Dinitrotoluene	2.86	4.959	*+	ug/L		174	48 - 127
2,6-Dinitrotoluene	2.86	5.181	*+	ug/L		181	68 - 137
2-Chloronaphthalene	2.86	2.832		ug/L		99	10 - 130
2-Methylnaphthalene	2.86	2.500		ug/L		88	25 - 175
2-Methylphenol	2.86	1.812		ug/L		63	14 - 176
2-Nitroaniline	2.86	3.891	*+	ug/L		136	59 - 130
2-Nitrophenol	2.86	4.860	*+	ug/L		170	45 - 167
3 & 4 Methylphenol	2.86	1.620		ug/L		57	22 - 130
3-Nitroaniline	2.86	2.149		ug/L		75	30 - 130
4,6-Dinitro-2-methylphenol	2.86	3.488		ug/L		122	10 - 130
4-Bromophenyl phenyl ether	2.86	3.188		ug/L		112	65 - 120
4-Chloro-3-methylphenol	2.86	3.305		ug/L		116	41 - 128
4-Chloroaniline	2.86	1.702		ug/L		60	30 - 130
4-Chlorophenyl phenyl ether	2.86	3.137		ug/L		110	38 - 145
4-Nitroaniline	2.86	2.351		ug/L		82	42 - 125
Acenaphthene	2.86	1.988		ug/L		70	60 - 132
Acenaphthylene	2.86	2.050		ug/L		72	54 - 126
Aniline	2.86	1.350		ug/L		47	15 - 130
Anthracene	2.86	2.351		ug/L		82	43 - 135
Benzo[a]anthracene	2.86	3.928	*+	ug/L		137	42 - 133
Benzo[a]pyrene	2.86	3.130		ug/L		110	32 - 148
Benzo[b]fluoranthene	2.86	4.492	*+	ug/L		157	42 - 140
Benzo[g,h,i]perylene	2.86	3.287		ug/L		115	25 - 195
Benzo[k]fluoranthene	2.86	3.665		ug/L		128	25 - 146
Benzyl alcohol	2.86	3.109		ug/L		109	57 - 130
Bis(2-chloroethoxy)methane	2.86	3.378		ug/L		118	49 - 165

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160178/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	2.86	2.819		ug/L		99	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	5.231	*+	ug/L		183	29 - 137
Butyl benzyl phthalate	2.86	5.475	*+	ug/L		192	28 - 130
Chrysene	2.86	3.341		ug/L		117	47 - 130
Dibenz(a,h)anthracene	2.86	3.479		ug/L		122	32 - 200
Dibenzofuran	2.86	3.214		ug/L		112	48 - 130
Diethyl phthalate	2.86	4.027	*+	ug/L		141	53 - 120
Dimethyl phthalate	2.86	4.007	*+	ug/L		140	67 - 120
Di-n-butyl phthalate	2.86	4.210	*+	ug/L		147	8 - 120
Di-n-octyl phthalate	2.86	5.653		ug/L		198	19 - 200
Fluoranthene	2.86	3.280		ug/L		115	43 - 130
Fluorene	2.86	2.971		ug/L		104	70 - 130
Hexachlorobenzene	2.86	2.853		ug/L		100	8 - 142
Hexachlorobutadiene	2.86	1.476		ug/L		52	10 - 130
Hexachlorocyclopentadiene	2.86	1.592		ug/L		56	10 - 130
Hexachloroethane	2.86	1.786		ug/L		62	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	3.795		ug/L		133	29 - 151
Isophorone	2.86	4.082		ug/L		143	47 - 180
Naphthalene	2.86	2.857		ug/L		100	36 - 120
Nitrobenzene	2.86	4.158	*+	ug/L		146	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.043		ug/L		107	14 - 198
N-Nitrosodiphenylamine	2.86	2.303		ug/L		81	40 - 127
Pentachlorophenol	2.86	4.102		ug/L		144	38 - 152
Phenanthrene	2.86	3.070		ug/L		107	65 - 120
Phenol	2.86	1.063	J	ug/L		37	17 - 120
Pyrene	2.86	3.181		ug/L		111	70 - 130
Pyridine	2.86	<1.44	U	ug/L		37	1 - 126
N-Nitro-o-toluidine	2.86	2.306		ug/L		81	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.765		ug/L		132	33 - 132
Acetophenone	2.86	2.668		ug/L		93	58 - 130
N-Nitrosopiperidine	2.86	3.754	*+	ug/L		131	54 - 130
Pentachlorobenzene	2.86	2.519		ug/L		88	47 - 130
Diphenyl ether	2.86	2.886		ug/L		101	61 - 130
1,1'-Biphenyl	2.86	2.540		ug/L		89	52 - 130
4-Aminobiphenyl	2.86	1.929		ug/L		68	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	2.051		ug/L		72	52 - 130
1,3,5-Trinitrobenzene	2.86	5.856	*+	ug/L		205	42 - 130
1,3-Dinitrobenzene	2.86	5.000	*+	ug/L		175	54 - 130
1,4-Naphthoquinone	2.86	4.068	*+	ug/L		142	34 - 130
1-Naphthylamine	2.86	0.2240	J   *-	ug/L		8	40 - 130
2,6-Dichlorophenol	2.86	3.201		ug/L		112	40 - 130
2-Acetylaminofluorene	2.86	8.363	*+	ug/L		293	50 - 150
2-Chlorophenol	2.86	3.072		ug/L		108	36 - 120
2-Naphthylamine	2.86	<0.288	U *-	ug/L		6	30 - 130
2-Picoline	2.86	1.534		ug/L		54	22 - 130
2-Toluidine	2.86	1.286		ug/L		45	30 - 130
3,3'-Dichlorobenzidine	2.86	2.019		ug/L		71	20 - 150
3,3'-Dimethylbenzidine	2.86	0.6761	*-	ug/L		24	30 - 130
3-Methylcholanthrene	2.86	2.747		ug/L		96	53 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160178/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroquinoline-1-oxide	2.86	6.075	*+	ug/L		213	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	3.973	*+	ug/L		139	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.137	*+	ug/L		220	69 - 130
Aramite Peak 2	1.43	3.169	*+	ug/L		222	65 - 130
Diallate Peak 1	2.11	1.751		ug/L		83	69 - 130
Diallate Peak 2	0.743	0.6269		ug/L		84	67 - 130
Ethyl methanesulfonate	2.86	2.400		ug/L		84	54 - 130
Hexachloropropene	2.86	1.833		ug/L		64	37 - 130
Isosafrole Peak 1	0.457	0.3331	J	ug/L		73	54 - 130
Isosafrole Peak 2	2.40	1.797		ug/L		75	62 - 130
Methyl methanesulfonate	2.86	1.258		ug/L		44	30 - 130
N-Nitrosodiethylamine	2.86	2.954		ug/L		103	54 - 130
N-Nitrosodimethylamine	2.86	1.176		ug/L		41	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.013	*+	ug/L		140	58 - 130
N-Nitrosomethylethylamine	2.86	2.226		ug/L		78	45 - 130
N-Nitrosomorpholine	2.86	1.945		ug/L		68	37 - 130
N-Nitrosopyrrolidine	2.86	2.127		ug/L		74	47 - 130
p-Dimethylamino azobenzene	2.86	2.884		ug/L		101	61 - 130
Pentachloronitrobenzene	2.86	4.869	*+	ug/L		170	56 - 130
Phenacetin	2.86	4.422	*+	ug/L		155	70 - 130
p-Phenylene diamine	2.86	<0.500	U	ug/L		11	3 - 120
Pronamide	2.86	4.683	*+	ug/L		164	70 - 130
Safrole, Total	2.86	2.141		ug/L		75	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	157	S1+	35 - 130
2-Fluorobiphenyl	125		43 - 130
2-Fluorophenol (Surr)	86		19 - 120
Nitrobenzene-d5 (Surr)	192	S1+	37 - 133
Phenol-d5 (Surr)	39		8 - 124
p-Terphenyl-d14	113		47 - 130

**Lab Sample ID: LCS 860-160178/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	8.156	*+	ug/L		143	45 - 138
Dinoseb	5.71	10.39	*+	ug/L		182	49 - 130
Disulfoton	5.71	4.579		ug/L		80	38 - 134
Ethyl Parathion	5.71	11.40	*+	ug/L		200	25 - 173
Famphur	2.86	4.539	*+	ug/L		159	43 - 142
Methapyrilene	5.71	8.493		ug/L		149	70 - 183
Methyl parathion	5.71	10.51	*+	ug/L		184	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	3.206		ug/L		112	43 - 130
Phorate	5.71	7.398		ug/L		129	37 - 140
Sulfotepp	5.71	7.365		ug/L		129	28 - 158

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160178/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thionazin	2.86	3.380		ug/L		118	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	147	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	79		19 - 120
Nitrobenzene-d5 (Surr)	188	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCSD 860-160178/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,2,4-Trichlorobenzene	2.86	2.107		ug/L		74	32 - 130	2	30
1,2-Dichlorobenzene	2.86	1.958		ug/L		69	32 - 130	1	30
1,3-Dichlorobenzene	2.86	1.801		ug/L		63	26 - 130	2	30
1,4-Dichlorobenzene	2.86	1.869		ug/L		65	28 - 130	6	30
2,2'-oxybis[1-chloropropane]	2.86	2.799	J	ug/L		98	10 - 173	5	30
2,4,5-Trichlorophenol	2.86	4.083	*+	ug/L		143	35 - 130	3	30
2,4,6-Trichlorophenol	2.86	3.539		ug/L		124	52 - 129	4	30
2,4-Dichlorophenol	2.86	3.232		ug/L		113	53 - 122	2	30
2,4-Dimethylphenol	2.86	2.864	*1	ug/L		100	42 - 120	38	30
1,4-Dioxane	2.86	1.184		ug/L		41	27 - 130	4	30
2,4-Dinitrophenol	2.86	3.158		ug/L		111	12 - 173	1	30
2,4-Dinitrotoluene	2.86	4.876	*+	ug/L		171	48 - 127	2	30
2,6-Dinitrotoluene	2.86	5.307	*+	ug/L		186	68 - 137	2	30
2-Chloronaphthalene	2.86	3.086		ug/L		108	10 - 130	9	30
2-Methylnaphthalene	2.86	2.688		ug/L		94	25 - 175	7	30
2-Methylphenol	2.86	2.609	*1	ug/L		91	14 - 176	36	30
2-Nitroaniline	2.86	5.444	*+ *1	ug/L		191	59 - 130	33	30
2-Nitrophenol	2.86	4.920	*+	ug/L		172	45 - 167	1	30
3 & 4 Methylphenol	2.86	2.387	*1	ug/L		84	22 - 130	38	30
3-Nitroaniline	2.86	2.014		ug/L		70	30 - 130	6	30
4,6-Dinitro-2-methylphenol	2.86	3.546		ug/L		124	10 - 130	2	30
4-Bromophenyl phenyl ether	2.86	3.143		ug/L		110	65 - 120	1	30
4-Chloro-3-methylphenol	2.86	3.767	*+	ug/L		132	41 - 128	13	30
4-Chloroaniline	2.86	1.627		ug/L		57	30 - 130	5	30
4-Chlorophenyl phenyl ether	2.86	3.014		ug/L		105	38 - 145	4	30
4-Nitroaniline	2.86	2.386		ug/L		83	42 - 125	1	30
Acenaphthene	2.86	2.937	*1	ug/L		103	60 - 132	39	30
Acenaphthylene	2.86	2.860	*1	ug/L		100	54 - 126	33	30
Aniline	2.86	1.121		ug/L		39	15 - 130	19	30
Anthracene	2.86	3.029		ug/L		106	43 - 135	25	30
Benzo[a]anthracene	2.86	3.883	*+	ug/L		136	42 - 133	1	30
Benzo[a]pyrene	2.86	3.173		ug/L		111	32 - 148	1	30
Benzo[b]fluoranthene	2.86	4.405	*+	ug/L		154	42 - 140	2	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160178/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[g,h,i]perylene	2.86	3.269		ug/L		114	25 - 195	1	30	
Benzo[k]fluoranthene	2.86	3.598		ug/L		126	25 - 146	2	30	
Benzyl alcohol	2.86	2.919		ug/L		102	57 - 130	6	30	
Bis(2-chloroethoxy)methane	2.86	3.297		ug/L		115	49 - 165	2	30	
Bis(2-chloroethyl)ether	2.86	2.721		ug/L		95	43 - 126	4	30	
Bis(2-ethylhexyl) phthalate	2.86	5.049	*+	ug/L		177	29 - 137	4	30	
Butyl benzyl phthalate	2.86	5.303	*+	ug/L		186	28 - 130	3	30	
Chrysene	2.86	3.268		ug/L		114	47 - 130	2	30	
Dibenz(a,h)anthracene	2.86	3.542		ug/L		124	32 - 200	2	30	
Dibenzofuran	2.86	3.199		ug/L		112	48 - 130	0	30	
Diethyl phthalate	2.86	4.129	*+	ug/L		145	53 - 120	3	30	
Dimethyl phthalate	2.86	3.894	*+	ug/L		136	67 - 120	3	30	
Di-n-butyl phthalate	2.86	4.089	*+	ug/L		143	8 - 120	3	30	
Di-n-octyl phthalate	2.86	5.396		ug/L		189	19 - 200	5	30	
Fluoranthene	2.86	3.239		ug/L		113	43 - 130	1	30	
Fluorene	2.86	2.925		ug/L		102	70 - 130	2	30	
Hexachlorobenzene	2.86	2.839		ug/L		99	8 - 142	0	30	
Hexachlorobutadiene	2.86	1.468		ug/L		51	10 - 130	1	30	
Hexachlorocyclopentadiene	2.86	1.710		ug/L		60	10 - 130	7	30	
Hexachloroethane	2.86	1.599		ug/L		56	10 - 130	11	30	
Indeno[1,2,3-cd]pyrene	2.86	3.844		ug/L		135	29 - 151	1	30	
Isophorone	2.86	3.990		ug/L		140	47 - 180	2	30	
Naphthalene	2.86	2.874		ug/L		101	36 - 120	1	30	
Nitrobenzene	2.86	4.058	*+	ug/L		142	54 - 130	2	30	
N-Nitrosodi-n-propylamine	2.86	2.961		ug/L		104	14 - 198	3	30	
N-Nitrosodiphenylamine	2.86	3.148	*1	ug/L		110	40 - 127	31	30	
Pentachlorophenol	2.86	4.062		ug/L		142	38 - 152	1	30	
Phenanthrene	2.86	3.019		ug/L		106	65 - 120	2	30	
Phenol	2.86	1.361	J	ug/L		48	17 - 120	25	30	
Pyrene	2.86	3.378		ug/L		118	70 - 130	6	30	
Pyridine	2.86	<1.44	U	ug/L		28	1 - 126	29	30	
N-Nitro-o-toluidine	2.86	2.146		ug/L		75	47 - 130	7	30	
2,3,4,6-Tetrachlorophenol	2.86	3.332		ug/L		117	33 - 132	12	30	
Acetophenone	2.86	2.615		ug/L		92	58 - 130	2	30	
N-Nitrosopiperidine	2.86	3.652		ug/L		128	54 - 130	3	30	
Pentachlorobenzene	2.86	2.498		ug/L		87	47 - 130	1	30	
Diphenyl ether	2.86	2.919		ug/L		102	61 - 130	1	30	
1,1'-Biphenyl	2.86	2.531		ug/L		89	52 - 130	0	30	
4-Aminobiphenyl	2.86	1.833		ug/L		64	35 - 130	5	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.994		ug/L		70	52 - 130	3	30	
1,3,5-Trinitrobenzene	2.86	5.422	*+	ug/L		190	42 - 130	8	30	
1,3-Dinitrobenzene	2.86	5.012	*+	ug/L		175	54 - 130	0	30	
1,4-Naphthoquinone	2.86	4.072	*+	ug/L		143	34 - 130	0	30	
1-Naphthylamine	2.86	0.5683	J *- *1	ug/L		20	40 - 130	87	30	
2,6-Dichlorophenol	2.86	3.207		ug/L		112	40 - 130	0	30	
2-Acetylaminofluorene	2.86	8.382	*+	ug/L		293	50 - 150	0	30	
2-Chlorophenol	2.86	2.988		ug/L		105	36 - 120	3	30	
2-Naphthylamine	2.86	0.7570	*- *1	ug/L		26	30 - 130	122	30	
2-Picoline	2.86	1.388		ug/L		49	22 - 130	10	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160178/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
2-Toluidine	2.86	1.198		ug/L		42	30 - 130	7	30	
3,3'-Dichlorobenzidine	2.86	1.978		ug/L		69	20 - 150	2	30	
3,3'-Dimethylbenzidine	2.86	0.6718	*-	ug/L		24	30 - 130	1	30	
3-Methylcholanthrene	2.86	2.886		ug/L		101	53 - 130	5	30	
4-Nitroquinoline-1-oxide	2.86	5.880	*+	ug/L		206	39 - 130	3	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.960	*+	ug/L		139	63 - 130	0	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	3.010	*+	ug/L		211	69 - 130	4	30	
Aramite Peak 2	1.43	3.089	*+	ug/L		216	65 - 130	3	30	
Diallate Peak 1	2.11	2.436	*1	ug/L		115	69 - 130	33	30	
Diallate Peak 2	0.743	0.8281	I	ug/L		111	67 - 130	28	30	
Ethyl methanesulfonate	2.86	2.249		ug/L		79	54 - 130	6	30	
Hexachloropropene	2.86	1.838		ug/L		64	37 - 130	0	30	
Isosafrole Peak 1	0.457	0.3651	J	ug/L		80	54 - 130	9	30	
Isosafrole Peak 2	2.40	2.053		ug/L		86	62 - 130	13	30	
Methyl methanesulfonate	2.86	1.196		ug/L		42	30 - 130	5	30	
N-Nitrosodiethylamine	2.86	2.843		ug/L		100	54 - 130	4	30	
N-Nitrosodimethylamine	2.86	1.094		ug/L		38	28 - 126	7	30	
N-Nitrosodi-n-butylamine	2.86	4.004	*+	ug/L		140	58 - 130	0	30	
N-Nitrosomethylethylamine	2.86	2.067		ug/L		72	45 - 130	7	30	
N-Nitrosomorpholine	2.86	1.859		ug/L		65	37 - 130	5	30	
N-Nitrosopyrrolidine	2.86	2.007		ug/L		70	47 - 130	6	30	
p-Dimethylamino azobenzene	2.86	4.091	*+ *1	ug/L		143	61 - 130	35	30	
Pentachloronitrobenzene	2.86	4.760	*+	ug/L		167	56 - 130	2	30	
Phenacetin	2.86	4.215	*+	ug/L		148	70 - 130	5	30	
p-Phenylene diamine	2.86	<0.500	U	ug/L		10	3 - 120	5	30	
Pronamide	2.86	4.536	*+	ug/L		159	70 - 130	3	30	
Safrole, Total	2.86	3.176	*1	ug/L		111	70 - 130	39	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	156	S1+	35 - 130
2-Fluorobiphenyl	122		43 - 130
2-Fluorophenol (Surr)	86		19 - 120
Nitrobenzene-d5 (Surr)	186	S1+	37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14	117		47 - 130

**Lab Sample ID: LCSD 860-160178/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	8.767	*+	ug/L		153	45 - 138	7	30	
Dinoseb	5.71	10.70	*+	ug/L		187	49 - 130	3	30	
Disulfoton	5.71	5.024		ug/L		88	38 - 134	9	30	
Ethyl Parathion	5.71	11.97	*+	ug/L		209	25 - 173	5	30	
Famphur	2.86	4.675	*+	ug/L		164	43 - 142	3	30	
Methapyrilene	5.71	8.783		ug/L		154	70 - 183	3	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160178/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Methyl parathion	5.71	11.22	*+	ug/L		196	26 - 159	7	30	
o,o',o"-Triethylphosphorothioate	2.86	3.340		ug/L		117	43 - 130	4	30	
Phorate	5.71	7.731		ug/L		135	37 - 140	4	30	
Sulfotepp	5.71	7.797		ug/L		136	28 - 158	6	30	
Thionazin	2.86	3.902		ug/L		137	50 - 150	14	30	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	131	S1+	43 - 130
2-Fluorophenol (Surr)	82		19 - 120
Nitrobenzene-d5 (Surr)	191	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	119		47 - 130

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
1,2,4-Trichlorobenzene	<0.0766	U	2.86	1.724		ug/L		60	44 - 142	
1,2-Dichlorobenzene	<0.0941	U	2.86	1.925		ug/L		67	51 - 130	
1,3-Dichlorobenzene	<0.102	U	2.86	1.668		ug/L		58	47 - 130	
1,4-Dichlorobenzene	<0.0779	U	2.86	1.698		ug/L		59	46 - 130	
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	3.105		ug/L		109	36 - 166	
2,4,5-Trichlorophenol	<0.143	U ** F1	2.86	3.502		ug/L		123	35 - 130	
2,4,6-Trichlorophenol	<0.231	U	2.86	3.534		ug/L		124	37 - 144	
2,4-Dichlorophenol	<0.140	U	2.86	3.371		ug/L		118	39 - 135	
2,4-Dimethylphenol	<0.192	U *1 F1	2.86	3.229		ug/L		113	32 - 120	
1,4-Dioxane	<0.0890	U	2.86	1.149		ug/L		40	28 - 130	
2,4-Dinitrophenol	<0.104	U	2.86	2.881		ug/L		101	26 - 191	
2,4-Dinitrotoluene	<0.205	U **	2.86	3.869		ug/L		135	39 - 139	
2,6-Dinitrotoluene	<0.116	U **	2.86	3.822		ug/L		134	50 - 158	
2-Chloronaphthalene	<0.378	U	2.86	2.564		ug/L		90	60 - 120	
2-Methylnaphthalene	<0.0603	U	2.86	2.240		ug/L		78	25 - 175	
2-Methylphenol	<0.105	U *1	2.86	2.931		ug/L		103	14 - 176	
2-Nitroaniline	<0.149	U F1 ** *1	2.86	3.902	F1	ug/L		137	59 - 130	
2-Nitrophenol	<0.136	U **	2.86	3.789		ug/L		133	29 - 182	
3 & 4 Methylphenol	<0.139	U *1	2.86	2.836		ug/L		99	22 - 130	
3-Nitroaniline	<0.0853	U	2.86	2.200		ug/L		77	30 - 130	
4,6-Dinitro-2-methylphenol	<0.201	U	2.86	3.294		ug/L		115	25 - 181	
4-Bromophenyl phenyl ether	<0.100	U	2.86	2.933		ug/L		103	53 - 127	
4-Chloro-3-methylphenol	<0.104	U **	2.86	3.419		ug/L		120	22 - 147	
4-Chloroaniline	<0.0385	U	2.86	1.840		ug/L		64	30 - 130	
4-Chlorophenyl phenyl ether	<0.130	U	2.86	2.606		ug/L		91	25 - 158	
4-Nitroaniline	<0.109	U	2.86	2.651		ug/L		93	53 - 130	
Acenaphthene	<0.107	U *1	2.86	2.720		ug/L		95	47 - 145	
Acenaphthylene	<0.0996	U *1	2.86	2.879		ug/L		101	33 - 145	
Aniline	<0.0580	U	2.86	1.447		ug/L		51	20 - 130	

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Anthracene	<0.0938	U	2.86	3.105		ug/L		109	27 - 133
Benzo[a]anthracene	0.0122	J   B **	2.86	3.063		ug/L		107	33 - 143
Benzo[a]pyrene	<0.0100	U	2.86	3.352		ug/L		117	17 - 163
Benzo[b]fluoranthene	<0.0664	U **	2.86	3.033		ug/L		106	24 - 159
Benzo[g,h,i]perylene	<0.0345	U	2.86	2.978		ug/L		104	25 - 219
Benzo[k]fluoranthene	<0.0473	U	2.86	3.060		ug/L		107	11 - 162
Benzyl alcohol	<0.600	U	2.86	2.784		ug/L		97	57 - 130
Bis(2-chloroethoxy)methane	<0.0974	U	2.86	3.345		ug/L		117	33 - 184
Bis(2-chloroethyl)ether	<0.214	U	2.86	3.314		ug/L		116	12 - 158
Bis(2-ethylhexyl) phthalate	<0.900	U **	2.86	3.435		ug/L		120	8 - 158
Butyl benzyl phthalate	<0.500	U **	2.86	3.604		ug/L		126	70 - 152
Chrysene	<0.0815	U	2.86	2.982		ug/L		104	17 - 168
Dibenz(a,h)anthracene	<0.0509	U	2.86	3.043		ug/L		107	32 - 227
Dibenzofuran	<0.107	U	2.86	2.951		ug/L		103	48 - 130
Diethyl phthalate	<0.155	U F1 **	2.86	3.449	F1	ug/L		121	25 - 120
Dimethyl phthalate	<0.108	U F1 **	2.86	3.630	F1	ug/L		127	25 - 120
Di-n-butyl phthalate	<0.765	U ** F1	2.86	3.277		ug/L		115	1 - 120
Di-n-octyl phthalate	<0.269	U	2.86	3.583		ug/L		125	4 - 146
Fluoranthene	<0.0883	U	2.86	2.901		ug/L		102	26 - 137
Fluorene	<0.0948	U	2.86	3.101		ug/L		109	59 - 121
Hexachlorobenzene	<0.0975	U	2.86	2.861		ug/L		100	8 - 152
Hexachlorobutadiene	<0.103	U	2.86	1.190		ug/L		42	24 - 120
Hexachlorocyclopentadiene	<0.0512	U	2.86	1.381		ug/L		48	30 - 130
Hexachloroethane	<0.102	U	2.86	1.520		ug/L		53	40 - 120
Indeno[1,2,3-cd]pyrene	<0.100	U	2.86	3.044		ug/L		107	29 - 171
Isophorone	<0.107	U	2.86	3.481		ug/L		122	21 - 196
Naphthalene	<0.0944	U	2.86	2.480		ug/L		87	21 - 133
Nitrobenzene	<0.0736	U **	2.86	3.527		ug/L		123	35 - 180
N-Nitrosodi-n-propylamine	<0.119	U	2.86	4.182		ug/L		146	14 - 230
N-Nitrosodiphenylamine	<0.145	U *1	2.86	3.574		ug/L		125	60 - 130
Pentachlorophenol	<1.04	U	2.86	3.967		ug/L		139	14 - 176
Phenanthrene	<0.134	U	2.86	3.131		ug/L		110	54 - 120
Phenol	<0.448	U	2.86	1.680	J	ug/L		59	5 - 120
Pyrene	<0.0849	U	2.86	2.997		ug/L		105	52 - 120
Pyridine	<1.44	U F1	2.86	<1.44	U F1	ug/L		0	5 - 120
N-Nitro-o-toluidine	<0.520	U	2.86	2.523		ug/L		88	47 - 130
2,3,4,6-Tetrachlorophenol	<0.211	U F1	2.86	4.154	F1	ug/L		145	33 - 132
Acetophenone	<0.624	U	2.86	3.358		ug/L		118	58 - 130
N-Nitrosopiperidine	<0.467	U **	2.86	3.083		ug/L		108	54 - 130
Pentachlorobenzene	<0.266	U	2.86	2.211		ug/L		77	47 - 130
Diphenyl ether	0.814		2.86	2.600		ug/L		63	61 - 130
1,1'-Biphenyl	0.281	J	2.86	2.463		ug/L		76	52 - 130
4-Aminobiphenyl	<0.394	U	2.86	2.142		ug/L		75	35 - 130
1,2,4,5-Tetrachlorobenzene	<0.0957	U	2.86	1.747		ug/L		61	52 - 130
1,3,5-Trinitrobenzene	<0.119	U **	2.86	3.161		ug/L		111	42 - 130
1,3-Dinitrobenzene	<0.0773	U ** F1	2.86	3.712		ug/L		130	54 - 130
1,4-Naphthoquinone	<0.314	U **	2.86	2.908		ug/L		102	34 - 130
1-Naphthylamine	<0.149	U F1 *- *1	2.86	0.7754	F1	ug/L		27	40 - 130
2,6-Dichlorophenol	<0.118	U	2.86	3.230		ug/L		113	40 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
2-Acetylaminofluorene	<1.26	U F1 **	2.86	4.602	F1	ug/L		161	50 - 150
2-Chlorophenol	<0.0756	U	2.86	3.526		ug/L		123	23 - 134
2-Naphthylamine	<0.288	U *- *1	2.86	1.841		ug/L		64	30 - 130
2-Picoline	<0.123	U F1 F2	2.86	0.2862	J F1	ug/L		10	22 - 130
2-Toluidine	<0.306	U	2.86	1.651		ug/L		58	30 - 130
3,3'-Dichlorobenzidine	<0.183	U	2.86	2.492		ug/L		87	25 - 200
3,3'-Dimethylbenzidine	<0.142	U *-	2.86	1.723		ug/L		60	30 - 130
3-Methylcholanthrene	<0.104	U F1 *-	2860	3.036	F1	ug/L		0.1	53 - 130
4-Nitroquinoline-1-oxide	<0.730	U **	2.86	2.970		ug/L		104	39 - 130
7,12-Dimethylbenz(a)anthracene	<0.241	U **	2.86	2.956		ug/L		103	63 - 130
alpha,alpha-Dimethylphenethylamine	<3.67	U *-	2.86	<3.67	U	ug/L		NC	20 - 130
Aramite Peak 1	<0.0785	U ** F1	1.43	1.863		ug/L		130	69 - 130
Aramite Peak 2	<0.0954	U **	1.43	1.715		ug/L		120	65 - 130
Diallate Peak 1	<0.0835	U *1	2.11	2.268		ug/L		107	69 - 130
Diallate Peak 2	<0.0385	U	0.743	0.8983		ug/L		121	67 - 130
Dimethoate	<0.122	U F1 **	5710	<0.122	U F1	ug/L		0	45 - 138
Dinoseb	<0.570	U F1 **	5710	<0.570	U F1	ug/L		0	49 - 130
Disulfoton	<0.203	U F1	5710	<0.203	U F1	ug/L		0	38 - 134
Ethyl methanesulfonate	<0.227	U	2.86	2.469		ug/L		86	54 - 130
Ethyl Parathion	<0.0502	U F1 **	5710	<0.0502	U F1	ug/L		0	25 - 173
Famphur	<0.151	U F1 **	2860	<0.151	U F1	ug/L		0	43 - 142
Hexachloropropene	<0.300	U	2.86	1.078		ug/L		38	37 - 130
Isosafrole Peak 1	<0.0463	U	0.457	0.4842	J	ug/L		106	54 - 130
Isosafrole Peak 2	<0.241	U	2.40	2.550		ug/L		106	62 - 130
Methapyrilene	<1.00	U F1	5710	<1.00	U F1	ug/L		0	50 - 150
Methyl methanesulfonate	<0.120	U	2.86	1.161		ug/L		41	30 - 130
Methyl parathion	<0.319	U F1 **	5710	<0.319	U F1	ug/L		0	26 - 159
N-Nitrosodiethylamine	<0.538	U	2.86	2.912		ug/L		102	54 - 130
N-Nitrosodimethylamine	<0.100	U	2.86	1.010		ug/L		35	30 - 130
N-Nitrosodi-n-butylamine	<0.516	U ** F1	2.86	3.562		ug/L		125	58 - 130
N-Nitrosomethylethylamine	<0.294	U	2.86	2.298		ug/L		80	45 - 130
N-Nitrosomorpholine	<0.220	U	2.86	1.619		ug/L		57	37 - 130
N-Nitrosopyrrolidine	<0.268	U	2.86	1.981		ug/L		69	47 - 130
o,o',o"-Triethylphosphorothioate	<0.138	U F1	2860	<0.138	U F1	ug/L		0	43 - 130
p-Dimethylamino azobenzene	<0.0238	U ** *1	2.86	3.420		ug/L		120	61 - 130
Pentachloronitrobenzene	<0.100	U **	2.86	3.658		ug/L		128	56 - 130
Phenacetin	<0.100	U **	2.86	3.442		ug/L		120	70 - 130
Phorate	<0.221	U F1	5710	<0.221	U F1	ug/L		0	37 - 140
p-Phenylene diamine	<0.500	U F1	2.86	<0.500	U F1	ug/L		0	3 - 120
Pronamide	<0.100	U **	2.86	3.717		ug/L		130	70 - 130
Safrole, Total	<0.0571	U *1	2.86	2.787		ug/L		98	70 - 130
Sulfotepp	<0.147	U F1	5710	<0.147	U F1	ug/L		0	28 - 158
Thionazin	<0.208	U F1	2860	<0.208	U F1	ug/L		0	50 - 150
		<b>MS MS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130						
2-Fluorobiphenyl	133	S1+	43 - 130						

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	105		19 - 120
Nitrobenzene-d5 (Surr)	153	S1+	37 - 133
Phenol-d5 (Surr)	72		8 - 124
p-Terphenyl-d14	97		47 - 130

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,2,4-Trichlorobenzene	<0.0766	U	2.86	2.010		ug/L		70	44 - 142	15	30	
1,2-Dichlorobenzene	<0.0941	U	2.86	2.247		ug/L		79	51 - 130	15	30	
1,3-Dichlorobenzene	<0.102	U	2.86	1.933		ug/L		68	47 - 130	15	30	
1,4-Dichlorobenzene	<0.0779	U	2.86	1.958		ug/L		69	46 - 130	14	30	
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	3.155		ug/L		110	36 - 166	2	30	
2,4,5-Trichlorophenol	<0.143	U *+ F1	2.86	3.760	F1	ug/L		132	35 - 130	7	30	
2,4,6-Trichlorophenol	<0.231	U	2.86	3.822		ug/L		134	37 - 144	8	30	
2,4-Dichlorophenol	<0.140	U	2.86	3.501		ug/L		123	39 - 135	4	30	
2,4-Dimethylphenol	<0.192	U *1 F1	2.86	3.472	F1	ug/L		122	32 - 120	7	30	
1,4-Dioxane	<0.0890	U	2.86	1.423		ug/L		50	28 - 130	21	30	
2,4-Dinitrophenol	<0.104	U	2.86	2.711	J	ug/L		95	26 - 191	6	30	
2,4-Dinitrotoluene	<0.205	U *+	2.86	3.885		ug/L		136	39 - 139	0	30	
2,6-Dinitrotoluene	<0.116	U *+	2.86	3.872		ug/L		136	50 - 158	1	30	
2-Chloronaphthalene	<0.378	U	2.86	2.873		ug/L		101	60 - 120	11	30	
2-Methylnaphthalene	<0.0603	U	2.86	2.493		ug/L		87	25 - 175	11	30	
2-Methylphenol	<0.105	U *1	2.86	3.144		ug/L		110	14 - 176	7	30	
2-Nitroaniline	<0.149	U F1 *+ *1	2.86	4.006	F1	ug/L		140	59 - 130	3	30	
2-Nitrophenol	<0.136	U *+	2.86	3.839		ug/L		134	29 - 182	1	30	
3 & 4 Methylphenol	<0.139	U *1	2.86	3.128		ug/L		109	22 - 130	10	30	
3-Nitroaniline	<0.0853	U	2.86	1.965		ug/L		69	30 - 130	11	30	
4,6-Dinitro-2-methylphenol	<0.201	U	2.86	3.184		ug/L		111	25 - 181	3	30	
4-Bromophenyl phenyl ether	<0.100	U	2.86	3.064		ug/L		107	53 - 127	4	30	
4-Chloro-3-methylphenol	<0.104	U *+	2.86	3.712		ug/L		130	22 - 147	8	30	
4-Chloroaniline	<0.0385	U	2.86	1.816		ug/L		64	30 - 130	1	30	
4-Chlorophenyl phenyl ether	<0.130	U	2.86	2.757		ug/L		97	25 - 158	6	30	
4-Nitroaniline	<0.109	U	2.86	2.486		ug/L		87	53 - 130	6	30	
Acenaphthene	<0.107	U *1	2.86	2.802		ug/L		98	47 - 145	3	30	
Acenaphthylene	<0.0996	U *1	2.86	3.136		ug/L		110	33 - 145	9	30	
Aniline	<0.0580	U	2.86	1.535		ug/L		54	20 - 130	6	30	
Anthracene	<0.0938	U	2.86	3.264		ug/L		114	27 - 133	5	30	
Benzo[a]anthracene	0.0122	J I B *+	2.86	3.355		ug/L		117	33 - 143	9	30	
Benzo[a]pyrene	<0.0100	U	2.86	3.501		ug/L		123	17 - 163	4	30	
Benzo[b]fluoranthene	<0.0664	U *+	2.86	3.327		ug/L		116	24 - 159	9	30	
Benzo[g,h,i]perylene	<0.0345	U	2.86	3.090		ug/L		108	25 - 219	4	30	
Benzo[k]fluoranthene	<0.0473	U	2.86	3.444		ug/L		121	11 - 162	12	30	
Benzyl alcohol	<0.600	U	2.86	3.309		ug/L		116	57 - 130	17	30	
Bis(2-chloroethoxy)methane	<0.0974	U	2.86	3.596		ug/L		126	33 - 184	7	30	
Bis(2-chloroethyl)ether	<0.214	U	2.86	3.590		ug/L		126	12 - 158	8	30	

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Added	Result				Qualifier		Limits
Bis(2-ethylhexyl) phthalate	<0.900	U **	2.86	3.767		ug/L		132	8 - 158	9	30
Butyl benzyl phthalate	<0.500	U **	2.86	3.841		ug/L		134	70 - 152	6	30
Chrysene	<0.0815	U	2.86	3.161		ug/L		111	17 - 168	6	30
Dibenz(a,h)anthracene	<0.0509	U	2.86	3.121		ug/L		109	32 - 227	3	30
Dibenzofuran	<0.107	U	2.86	3.009		ug/L		105	48 - 130	2	30
Diethyl phthalate	<0.155	U F1 **	2.86	3.549	I F1	ug/L		124	25 - 120	3	30
Dimethyl phthalate	<0.108	U F1 **	2.86	3.775	F1	ug/L		132	25 - 120	4	30
Di-n-butyl phthalate	<0.765	U ** F1	2.86	3.450	F1	ug/L		121	1 - 120	5	30
Di-n-octyl phthalate	<0.269	U	2.86	3.815		ug/L		134	4 - 146	6	30
Fluoranthene	<0.0883	U	2.86	2.950		ug/L		103	26 - 137	2	30
Fluorene	<0.0948	U	2.86	3.180		ug/L		111	59 - 121	3	30
Hexachlorobenzene	<0.0975	U	2.86	3.066		ug/L		107	8 - 152	7	30
Hexachlorobutadiene	<0.103	U	2.86	1.525		ug/L		53	24 - 120	25	30
Hexachlorocyclopentadiene	<0.0512	U	2.86	1.627		ug/L		57	30 - 130	16	30
Hexachloroethane	<0.102	U	2.86	1.677		ug/L		59	40 - 120	10	30
Indeno[1,2,3-cd]pyrene	<0.100	U	2.86	3.248		ug/L		114	29 - 171	6	30
Isophorone	<0.107	U	2.86	3.622		ug/L		127	21 - 196	4	30
Naphthalene	<0.0944	U	2.86	2.737		ug/L		96	21 - 133	10	30
Nitrobenzene	<0.0736	U **	2.86	3.595		ug/L		126	35 - 180	2	30
N-Nitrosodi-n-propylamine	<0.119	U	2.86	4.502		ug/L		158	14 - 230	7	30
N-Nitrosodiphenylamine	<0.145	U *1	2.86	3.584		ug/L		125	60 - 130	0	30
Pentachlorophenol	<1.04	U	2.86	3.940		ug/L		138	14 - 176	1	30
Phenanthrene	<0.134	U	2.86	3.254		ug/L		114	54 - 120	4	30
Phenol	<0.448	U	2.86	2.162	J	ug/L		76	5 - 120	25	30
Pyrene	<0.0849	U	2.86	3.172		ug/L		111	52 - 120	6	30
Pyridine	<1.44	U F1	2.86	<1.44	U F1	ug/L		0	5 - 120	NC	30
N-Nitro-o-toluidine	<0.520	U	2.86	2.460		ug/L		86	47 - 130	3	30
2,3,4,6-Tetrachlorophenol	<0.211	U F1	2.86	4.051	F1	ug/L		142	33 - 132	3	30
Acetophenone	<0.624	U	2.86	3.551		ug/L		124	58 - 130	6	30
N-Nitrosopiperidine	<0.467	U **	2.86	3.319		ug/L		116	54 - 130	7	30
Pentachlorobenzene	<0.266	U	2.86	2.433		ug/L		85	47 - 130	10	30
Diphenyl ether	0.814		2.86	2.704		ug/L		66	61 - 130	4	30
1,1'-Biphenyl	0.281	J	2.86	2.683		ug/L		84	52 - 130	9	30
4-Aminobiphenyl	<0.394	U	2.86	1.826		ug/L		64	35 - 130	16	30
1,2,4,5-Tetrachlorobenzene	<0.0957	U	2.86	2.077		ug/L		73	52 - 130	17	30
1,3,5-Trinitrobenzene	<0.119	U **	2.86	3.136		ug/L		110	42 - 130	1	30
1,3-Dinitrobenzene	<0.0773	U ** F1	2.86	3.819	F1	ug/L		134	54 - 130	3	30
1,4-Naphthoquinone	<0.314	U **	2.86	3.075		ug/L		108	34 - 130	6	30
1-Naphthylamine	<0.149	U F1 *- *1	2.86	0.9320	F1	ug/L		33	40 - 130	18	30
2,6-Dichlorophenol	<0.118	U	2.86	3.376		ug/L		118	40 - 130	4	30
2-Acetylaminofluorene	<1.26	U F1 **	2.86	4.690	F1	ug/L		164	50 - 150	2	30
2-Chlorophenol	<0.0756	U	2.86	3.664		ug/L		128	23 - 134	4	30
2-Naphthylamine	<0.288	U *- *1	2.86	1.609		ug/L		56	30 - 130	13	30
2-Picoline	<0.123	U F1 F2	2.86	0.6625	F2	ug/L		23	22 - 130	79	30
2-Toluidine	<0.306	U	2.86	1.598		ug/L		56	30 - 130	3	30
3,3'-Dichlorobenzidine	<0.183	U	2.86	2.399		ug/L		84	25 - 200	4	30
3,3'-Dimethylbenzidine	<0.142	U *-	2.86	1.620		ug/L		57	30 - 130	6	30
3-Methylcholanthrene	<0.104	U F1 *-	2860	3.145	F1	ug/L		0.1	53 - 130	4	30
4-Nitroquinoline-1-oxide	<0.730	U **	2.86	3.064		ug/L		107	39 - 130	3	30

Eurofins Houston



# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 160913**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 160178**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
7,12-Dimethylbenz(a)anthracene	<0.241	U *+	2.86	3.240		ug/L		113	63 - 130	9	30
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	2.86	<3.67	U	ug/L		NC	20 - 130	NC	30
Aramite Peak 1	<0.0785	U *+ F1	1.43	1.948	F1	ug/L		136	69 - 130	4	30
Aramite Peak 2	<0.0954	U *+	1.43	1.777		ug/L		124	65 - 130	4	30
Diallate Peak 1	<0.0835	U *1	2.11	2.454		ug/L		116	69 - 130	8	30
Diallate Peak 2	<0.0385	U	0.743	0.9301		ug/L		125	67 - 130	3	30
Dimethoate	<0.122	U F1 **	5710	<0.122	U F1	ug/L		0	45 - 138	NC	30
Dinoseb	<0.570	U F1 **	5710	<0.570	U F1	ug/L		0	49 - 130	NC	30
Disulfoton	<0.203	U F1	5710	<0.203	U F1	ug/L		0	38 - 134	NC	30
Ethyl methanesulfonate	<0.227	U	2.86	2.686		ug/L		94	54 - 130	8	30
Ethyl Parathion	<0.0502	U F1 **	5710	<0.0502	U F1	ug/L		0	25 - 173	NC	30
Famphur	<0.151	U F1 **	2860	<0.151	U F1	ug/L		0	43 - 142	NC	30
Hexachloropropene	<0.300	U	2.86	1.349		ug/L		47	37 - 130	22	30
Isosafrole Peak 1	<0.0463	U	0.457	0.4888	J	ug/L		107	54 - 130	1	30
Isosafrole Peak 2	<0.241	U	2.40	2.741		ug/L		114	62 - 130	7	30
Methapyrilene	<1.00	U F1	5710	<1.00	U F1	ug/L		0	50 - 150	NC	30
Methyl methanesulfonate	<0.120	U	2.86	1.314		ug/L		46	30 - 130	12	30
Methyl parathion	<0.319	U F1 **	5710	<0.319	U F1	ug/L		0	26 - 159	NC	30
N-Nitrosodiethylamine	<0.538	U	2.86	3.052		ug/L		107	54 - 130	5	30
N-Nitrosodimethylamine	<0.100	U	2.86	1.245		ug/L		44	30 - 130	21	30
N-Nitrosodi-n-butylamine	<0.516	U *+ F1	2.86	3.743	F1	ug/L		131	58 - 130	5	30
N-Nitrosomethylethylamine	<0.294	U	2.86	2.532		ug/L		89	45 - 130	10	30
N-Nitrosomorpholine	<0.220	U	2.86	1.754		ug/L		61	37 - 130	8	30
N-Nitrosopyrrolidine	<0.268	U	2.86	2.352		ug/L		82	47 - 130	17	30
o,o',o"-Triethylphosphorothioate	<0.138	U F1	2860	<0.138	U F1	ug/L		0	43 - 130	NC	30
p-Dimethylamino azobenzene	<0.0238	U *+ *1	2.86	3.593		ug/L		126	61 - 130	5	30
Pentachloronitrobenzene	<0.100	U *+	2.86	3.705	I	ug/L		130	56 - 130	1	30
Phenacetin	<0.100	U *+	2.86	3.516		ug/L		123	70 - 130	2	30
Phorate	<0.221	U F1	5710	<0.221	U F1	ug/L		0	37 - 140	NC	30
p-Phenylene diamine	<0.500	U F1	2.86	<0.500	U F1	ug/L		0	3 - 120	NC	30
Pronamide	<0.100	U *+	2.86	3.696		ug/L		129	70 - 130	1	30
Safrole, Total	<0.0571	U *1	2.86	3.092		ug/L		108	70 - 130	10	30
Sulfotepp	<0.147	U F1	5710	<0.147	U F1	ug/L		0	28 - 158	NC	30
Thionazin	<0.208	U F1	2860	<0.208	U F1	ug/L		0	50 - 150	NC	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	137	S1+	35 - 130
2-Fluorobiphenyl	126		43 - 130
2-Fluorophenol (Surr)	113		19 - 120
Nitrobenzene-d5 (Surr)	148	S1+	37 - 133
Phenol-d5 (Surr)	83		8 - 124
p-Terphenyl-d14	111		47 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161375/1-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:20	05/21/24 20:38	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:20	05/21/24 20:38	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:20	05/21/24 20:38	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/21/24 06:20	05/21/24 20:38	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:20	05/21/24 20:38	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:20	05/21/24 20:38	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:20	05/21/24 20:38	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:20	05/21/24 20:38	1
Benzo[a]anthracene	<0.00953	U	0.0286	0.00953	ug/L		05/21/24 06:20	05/21/24 20:38	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:20	05/21/24 20:38	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:20	05/21/24 20:38	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:20	05/21/24 20:38	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:20	05/21/24 20:38	1
Benzyl alcohol	0.7971	J	1.14	0.600	ug/L		05/21/24 06:20	05/21/24 20:38	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:20	05/21/24 20:38	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:20	05/21/24 20:38	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:20	05/21/24 20:38	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:20	05/21/24 20:38	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:20	05/21/24 20:38	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:20	05/21/24 20:38	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:20	05/21/24 20:38	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:20	05/21/24 20:38	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:20	05/21/24 20:38	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:20	05/21/24 20:38	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:20	05/21/24 20:38	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:20	05/21/24 20:38	1

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161375/1-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:20	05/21/24 20:38	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:20	05/21/24 20:38	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:20	05/21/24 20:38	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:20	05/21/24 20:38	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:20	05/21/24 20:38	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:20	05/21/24 20:38	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:20	05/21/24 20:38	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:20	05/21/24 20:38	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:20	05/21/24 20:38	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:20	05/21/24 20:38	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:20	05/21/24 20:38	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:20	05/21/24 20:38	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:20	05/21/24 20:38	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:20	05/21/24 20:38	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:20	05/21/24 20:38	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:20	05/21/24 20:38	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:20	05/21/24 20:38	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:20	05/21/24 20:38	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/21/24 06:20	05/21/24 20:38	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:20	05/21/24 20:38	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:20	05/21/24 20:38	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:20	05/21/24 20:38	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/21/24 06:20	05/21/24 20:38	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/21/24 06:20	05/21/24 20:38	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:20	05/21/24 20:38	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:20	05/21/24 20:38	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/21/24 06:20	05/21/24 20:38	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:20	05/21/24 20:38	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:20	05/21/24 20:38	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:20	05/21/24 20:38	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:20	05/21/24 20:38	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:20	05/21/24 20:38	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:20	05/21/24 20:38	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:20	05/21/24 20:38	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/21/24 06:20	05/21/24 20:38	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161375/1-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:20	05/21/24 20:38	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:20	05/21/24 20:38	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:20	05/21/24 20:38	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:20	05/21/24 20:38	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/21/24 06:20	05/21/24 20:38	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:20	05/21/24 20:38	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:20	05/21/24 20:38	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/21/24 06:20	05/21/24 20:38	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:20	05/21/24 20:38	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:20	05/21/24 20:38	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:20	05/21/24 20:38	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:20	05/21/24 20:38	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/21/24 06:20	05/21/24 20:38	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/21/24 06:20	05/21/24 20:38	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:20	05/21/24 20:38	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:20	05/21/24 20:38	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:20	05/21/24 20:38	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/21/24 06:20	05/21/24 20:38	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:20	05/21/24 20:38	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:20	05/21/24 20:38	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:20	05/21/24 20:38	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:20	05/21/24 20:38	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	86		35 - 130	05/21/24 06:20	05/21/24 20:38	1
2-Fluorobiphenyl	88		43 - 130	05/21/24 06:20	05/21/24 20:38	1
2-Fluorophenol (Surr)	66		19 - 120	05/21/24 06:20	05/21/24 20:38	1
Nitrobenzene-d5 (Surr)	105		37 - 133	05/21/24 06:20	05/21/24 20:38	1
Phenol-d5 (Surr)	44		8 - 124	05/21/24 06:20	05/21/24 20:38	1
p-Terphenyl-d14	94		47 - 130	05/21/24 06:20	05/21/24 20:38	1

**Lab Sample ID: LCS 860-161375/2-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.86	1.809		ug/L		63	32 - 130
1,3-Dichlorobenzene	2.86	1.464		ug/L		51	26 - 130
1,4-Dichlorobenzene	2.86	1.520		ug/L		53	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.445	J I	ug/L		86	10 - 173
2,4,5-Trichlorophenol	2.86	2.824		ug/L		99	35 - 130
2,4,6-Trichlorophenol	2.86	2.582		ug/L		90	52 - 129

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161375/2-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	2.86	2.719		ug/L		95	53 - 122
2,4-Dimethylphenol	2.86	1.659		ug/L		58	42 - 120
1,4-Dioxane	2.86	1.038		ug/L		36	27 - 130
2,4-Dinitrophenol	2.86	1.440	J	ug/L		50	12 - 173
2,4-Dinitrotoluene	2.86	2.478		ug/L		87	48 - 127
2,6-Dinitrotoluene	2.86	2.605		ug/L		91	68 - 137
2-Chloronaphthalene	2.86	2.031		ug/L		71	10 - 130
2-Methylnaphthalene	2.86	2.063		ug/L		72	25 - 175
2-Methylphenol	2.86	2.382		ug/L		83	14 - 176
2-Nitroaniline	2.86	1.957		ug/L		68	59 - 130
2-Nitrophenol	2.86	2.771		ug/L		97	45 - 167
3 & 4 Methylphenol	2.86	2.115		ug/L		74	22 - 130
3-Nitroaniline	2.86	1.222		ug/L		43	30 - 130
4,6-Dinitro-2-methylphenol	2.86	1.328		ug/L		46	10 - 130
4-Bromophenyl phenyl ether	2.86	2.389		ug/L		84	65 - 120
4-Chloro-3-methylphenol	2.86	2.632		ug/L		92	41 - 128
4-Chloroaniline	2.86	1.192		ug/L		42	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.330		ug/L		82	38 - 145
4-Nitroaniline	2.86	1.085	*-	ug/L		38	42 - 125
Acenaphthene	2.86	2.460		ug/L		86	60 - 132
Acenaphthylene	2.86	2.438		ug/L		85	54 - 126
Aniline	2.86	1.071		ug/L		37	15 - 130
Anthracene	2.86	2.492		ug/L		87	43 - 135
Benzo[a]anthracene	2.86	3.153		ug/L		110	42 - 133
Benzo[a]pyrene	2.86	2.914		ug/L		102	32 - 148
Benzo[b]fluoranthene	2.86	3.264		ug/L		114	42 - 140
Benzo[g,h,i]perylene	2.86	2.792		ug/L		98	25 - 195
Benzo[k]fluoranthene	2.86	3.131		ug/L		110	25 - 146
Benzyl alcohol	2.86	2.553		ug/L		89	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.884		ug/L		101	49 - 165
Bis(2-chloroethyl)ether	2.86	2.866		ug/L		100	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	3.166		ug/L		111	29 - 137
Butyl benzyl phthalate	2.86	2.833		ug/L		99	28 - 130
Chrysene	2.86	3.001		ug/L		105	47 - 130
Dibenz(a,h)anthracene	2.86	2.820		ug/L		99	32 - 200
Dibenzofuran	2.86	2.464		ug/L		86	48 - 130
Diethyl phthalate	2.86	2.735		ug/L		96	53 - 120
Dimethyl phthalate	2.86	2.822		ug/L		99	67 - 120
Di-n-butyl phthalate	2.86	2.567		ug/L		90	8 - 120
Di-n-octyl phthalate	2.86	2.991		ug/L		105	19 - 200
Fluoranthene	2.86	2.617		ug/L		92	43 - 130
Fluorene	2.86	2.540		ug/L		89	70 - 130
Hexachlorobenzene	2.86	2.737		ug/L		96	8 - 142
Hexachlorobutadiene	2.86	1.025		ug/L		36	10 - 130
Hexachlorocyclopentadiene	2.86	0.9835		ug/L		34	10 - 130
Hexachloroethane	2.86	1.164		ug/L		41	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	2.886		ug/L		101	29 - 151
Isophorone	2.86	2.847		ug/L		100	47 - 180
Naphthalene	2.86	2.135		ug/L		75	36 - 120

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161375/2-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	2.86	2.850		ug/L		100	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.080		ug/L		108	14 - 198
N-Nitrosodiphenylamine	2.86	2.578		ug/L		90	40 - 127
Pentachlorophenol	2.86	2.402		ug/L		84	38 - 152
Phenanthrene	2.86	2.593		ug/L		91	65 - 120
Phenol	2.86	1.240	J	ug/L		43	17 - 120
Pyrene	2.86	2.697		ug/L		94	70 - 130
Pyridine	2.86	<1.44	U	ug/L		28	1 - 126
N-Nitro-o-toluidine	2.86	1.071	J *	ug/L		37	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.654		ug/L		93	33 - 132
Acetophenone	2.86	3.106		ug/L		109	58 - 130
N-Nitrosopiperidine	2.86	2.511		ug/L		88	54 - 130
Pentachlorobenzene	2.86	2.129		ug/L		75	47 - 130
Diphenyl ether	2.86	2.201		ug/L		77	61 - 130
1,1'-Biphenyl	2.86	2.203		ug/L		77	52 - 130
4-Aminobiphenyl	2.86	1.078		ug/L		38	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.620		ug/L		57	52 - 130
1,3,5-Trinitrobenzene	2.86	2.496		ug/L		87	42 - 130
1,3-Dinitrobenzene	2.86	2.640		ug/L		92	54 - 130
1,4-Naphthoquinone	2.86	2.830		ug/L		99	34 - 130
1-Naphthylamine	2.86	0.8891	*-	ug/L		31	40 - 130
2,6-Dichlorophenol	2.86	2.364		ug/L		83	40 - 130
2-Acetylaminofluorene	2.86	3.596		ug/L		126	50 - 150
2-Chlorophenol	2.86	2.662		ug/L		93	36 - 120
2-Naphthylamine	2.86	1.118		ug/L		39	30 - 130
2-Picoline	2.86	1.238		ug/L		43	22 - 130
2-Toluidine	2.86	0.9360		ug/L		33	30 - 130
3,3'-Dichlorobenzidine	2.86	1.080		ug/L		38	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4057	J *	ug/L		14	30 - 130
3-Methylcholanthrene	2.86	1.417	*-	ug/L		50	53 - 130
4-Nitroquinoline-1-oxide	2.86	2.324		ug/L		81	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	2.874		ug/L		101	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130
Aramite Peak 1	1.43	1.496		ug/L		105	69 - 130
Aramite Peak 2	1.43	1.368		ug/L		96	65 - 130
Diallate Peak 1	2.11	1.718		ug/L		81	69 - 130
Diallate Peak 2	0.743	0.6644		ug/L		89	67 - 130
Ethyl methanesulfonate	2.86	2.109		ug/L		74	54 - 130
Hexachloropropene	2.86	1.027	*-	ug/L		36	37 - 130
Isosafrole Peak 1	0.457	0.2689	J	ug/L		59	54 - 130
Isosafrole Peak 2	2.40	1.338	*-	ug/L		56	62 - 130
Methyl methanesulfonate	2.86	0.9754		ug/L		34	30 - 130
N-Nitrosodiethylamine	2.86	2.510		ug/L		88	54 - 130
N-Nitrosodimethylamine	2.86	0.7829	*-	ug/L		27	28 - 126
N-Nitrosodi-n-butylamine	2.86	2.655		ug/L		93	58 - 130
N-Nitrosomethylethylamine	2.86	1.837		ug/L		64	45 - 130
N-Nitrosomorpholine	2.86	1.113		ug/L		39	37 - 130
N-Nitrosopyrrolidine	2.86	1.588		ug/L		56	47 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161375/2-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
p-Dimethylamino azobenzene	2.86	1.903		ug/L		67	61 - 130
Pentachloronitrobenzene	2.86	2.709		ug/L		95	56 - 130
Phenacetin	2.86	2.486		ug/L		87	70 - 130
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120
Pronamide	2.86	2.612		ug/L		91	70 - 130
Safrole, Total	2.86	2.377		ug/L		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		35 - 130
2-Fluorobiphenyl	98		43 - 130
2-Fluorophenol (Surr)	74		19 - 120
Nitrobenzene-d5 (Surr)	116		37 - 133
Phenol-d5 (Surr)	52		8 - 124
p-Terphenyl-d14	92		47 - 130

**Lab Sample ID: LCS 860-161375/4-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	5.073		ug/L		89	45 - 138
Dinoseb	5.71	6.775		ug/L		119	49 - 130
Disulfoton	5.71	4.967		ug/L		87	38 - 134
Ethyl Parathion	5.71	6.285		ug/L		110	25 - 173
Famphur	2.86	2.854		ug/L		100	43 - 142
Methapyrilene	5.71	6.217		ug/L		109	70 - 183
Methyl parathion	5.71	6.295		ug/L		110	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.554		ug/L		89	43 - 130
Phorate	5.71	4.343		ug/L		76	37 - 140
Sulfotepp	5.71	4.507		ug/L		79	28 - 158
Thionazin	2.86	1.932		ug/L		68	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	94		35 - 130
2-Fluorobiphenyl	102		43 - 130
2-Fluorophenol (Surr)	77		19 - 120
Nitrobenzene-d5 (Surr)	121		37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	90		47 - 130

**Lab Sample ID: LCSD 860-161375/3-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	1.685		ug/L		59	32 - 130	9	30
1,2-Dichlorobenzene	2.86	1.784		ug/L		62	32 - 130	1	30
1,3-Dichlorobenzene	2.86	1.513		ug/L		53	26 - 130	3	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161375/3-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
1,4-Dichlorobenzene	2.86	1.532		ug/L		54	28 - 130	1	30	
2,2'-oxybis[1-chloropropane]	2.86	2.307	J	ug/L		81	10 - 173	6	30	
2,4,5-Trichlorophenol	2.86	2.864		ug/L		100	35 - 130	1	30	
2,4,6-Trichlorophenol	2.86	2.496		ug/L		87	52 - 129	3	30	
2,4-Dichlorophenol	2.86	2.729		ug/L		96	53 - 122	0	30	
2,4-Dimethylphenol	2.86	1.653		ug/L		58	42 - 120	0	30	
1,4-Dioxane	2.86	0.9321		ug/L		33	27 - 130	11	30	
2,4-Dinitrophenol	2.86	1.244	J	ug/L		44	12 - 173	15	30	
2,4-Dinitrotoluene	2.86	2.415		ug/L		85	48 - 127	3	30	
2,6-Dinitrotoluene	2.86	2.734		ug/L		96	68 - 137	5	30	
2-Chloronaphthalene	2.86	2.160		ug/L		76	10 - 130	6	30	
2-Methylnaphthalene	2.86	2.138		ug/L		75	25 - 175	4	30	
2-Methylphenol	2.86	2.227		ug/L		78	14 - 176	7	30	
2-Nitroaniline	2.86	1.990		ug/L		70	59 - 130	2	30	
2-Nitrophenol	2.86	2.730		ug/L		96	45 - 167	1	30	
3 & 4 Methylphenol	2.86	1.932		ug/L		68	22 - 130	9	30	
3-Nitroaniline	2.86	1.211		ug/L		42	30 - 130	1	30	
4,6-Dinitro-2-methylphenol	2.86	1.247		ug/L		44	10 - 130	6	30	
4-Bromophenyl phenyl ether	2.86	2.541		ug/L		89	65 - 120	6	30	
4-Chloro-3-methylphenol	2.86	2.705		ug/L		95	41 - 128	3	30	
4-Chloroaniline	2.86	1.287		ug/L		45	30 - 130	8	30	
4-Chlorophenyl phenyl ether	2.86	2.349		ug/L		82	38 - 145	1	30	
4-Nitroaniline	2.86	1.123	*-	ug/L		39	42 - 125	3	30	
Acenaphthene	2.86	2.311		ug/L		81	60 - 132	6	30	
Acenaphthylene	2.86	2.420		ug/L		85	54 - 126	1	30	
Aniline	2.86	0.9644		ug/L		34	15 - 130	10	30	
Anthracene	2.86	2.514		ug/L		88	43 - 135	1	30	
Benzo[a]anthracene	2.86	2.975		ug/L		104	42 - 133	6	30	
Benzo[a]pyrene	2.86	2.808		ug/L		98	32 - 148	4	30	
Benzo[b]fluoranthene	2.86	2.918		ug/L		102	42 - 140	11	30	
Benzo[g,h,i]perylene	2.86	2.689		ug/L		94	25 - 195	4	30	
Benzo[k]fluoranthene	2.86	2.944		ug/L		103	25 - 146	6	30	
Benzyl alcohol	2.86	2.287		ug/L		80	57 - 130	11	30	
Bis(2-chloroethoxy)methane	2.86	2.824		ug/L		99	49 - 165	2	30	
Bis(2-chloroethyl)ether	2.86	2.663		ug/L		93	43 - 126	7	30	
Bis(2-ethylhexyl) phthalate	2.86	2.899		ug/L		101	29 - 137	9	30	
Butyl benzyl phthalate	2.86	2.805		ug/L		98	28 - 130	1	30	
Chrysene	2.86	2.807		ug/L		98	47 - 130	7	30	
Dibenz(a,h)anthracene	2.86	2.722		ug/L		95	32 - 200	4	30	
Dibenzofuran	2.86	2.421		ug/L		85	48 - 130	2	30	
Diethyl phthalate	2.86	2.658		ug/L		93	53 - 120	3	30	
Dimethyl phthalate	2.86	2.856		ug/L		100	67 - 120	1	30	
Di-n-butyl phthalate	2.86	2.593		ug/L		91	8 - 120	1	30	
Di-n-octyl phthalate	2.86	2.718		ug/L		95	19 - 200	10	30	
Fluoranthene	2.86	2.656		ug/L		93	43 - 130	1	30	
Fluorene	2.86	2.511		ug/L		88	70 - 130	1	30	
Hexachlorobenzene	2.86	2.663		ug/L		93	8 - 142	3	30	
Hexachlorobutadiene	2.86	1.230		ug/L		43	10 - 130	18	30	
Hexachlorocyclopentadiene	2.86	1.171		ug/L		41	10 - 130	17	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161375/3-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Hexachloroethane	2.86	1.254		ug/L		44	10 - 130	7	30	
Indeno[1,2,3-cd]pyrene	2.86	2.801		ug/L		98	29 - 151	3	30	
Isophorone	2.86	2.807		ug/L		98	47 - 180	1	30	
Naphthalene	2.86	2.208		ug/L		77	36 - 120	3	30	
Nitrobenzene	2.86	2.585		ug/L		90	54 - 130	10	30	
N-Nitrosodi-n-propylamine	2.86	3.006		ug/L		105	14 - 198	2	30	
N-Nitrosodiphenylamine	2.86	2.457		ug/L		86	40 - 127	5	30	
Pentachlorophenol	2.86	2.222		ug/L		78	38 - 152	8	30	
Phenanthrene	2.86	2.681		ug/L		94	65 - 120	3	30	
Phenol	2.86	1.148	J	ug/L		40	17 - 120	8	30	
Pyrene	2.86	2.663		ug/L		93	70 - 130	1	30	
Pyridine	2.86	<1.44	U	ug/L		23	1 - 126	21	30	
N-Nitro-o-toluidine	2.86	1.175	*-	ug/L		41	47 - 130	9	30	
2,3,4,6-Tetrachlorophenol	2.86	2.562		ug/L		90	33 - 132	4	30	
Acetophenone	2.86	2.858		ug/L		100	58 - 130	8	30	
N-Nitrosopiperidine	2.86	2.468		ug/L		86	54 - 130	2	30	
Pentachlorobenzene	2.86	2.054		ug/L		72	47 - 130	4	30	
Diphenyl ether	2.86	2.313		ug/L		81	61 - 130	5	30	
1,1'-Biphenyl	2.86	2.229		ug/L		78	52 - 130	1	30	
4-Aminobiphenyl	2.86	1.135		ug/L		40	35 - 130	5	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.747		ug/L		61	52 - 130	8	30	
1,3,5-Trinitrobenzene	2.86	2.294		ug/L		80	42 - 130	8	30	
1,3-Dinitrobenzene	2.86	2.629		ug/L		92	54 - 130	0	30	
1,4-Naphthoquinone	2.86	2.856		ug/L		100	34 - 130	1	30	
1-Naphthylamine	2.86	0.8815	I *-	ug/L		31	40 - 130	1	30	
2,6-Dichlorophenol	2.86	2.329		ug/L		82	40 - 130	2	30	
2-Acetylaminofluorene	2.86	3.561		ug/L		125	50 - 150	1	30	
2-Chlorophenol	2.86	2.409		ug/L		84	36 - 120	10	30	
2-Naphthylamine	2.86	1.116		ug/L		39	30 - 130	0	30	
2-Picoline	2.86	1.024		ug/L		36	22 - 130	19	30	
2-Toluidine	2.86	1.021		ug/L		36	30 - 130	9	30	
3,3'-Dichlorobenzidine	2.86	1.163		ug/L		41	20 - 150	7	30	
3,3'-Dimethylbenzidine	2.86	0.3810	J *-	ug/L		13	30 - 130	6	30	
3-Methylcholanthrene	2.86	1.486	*-	ug/L		52	53 - 130	5	30	
4-Nitroquinoline-1-oxide	2.86	2.360		ug/L		83	39 - 130	2	30	
7,12-Dimethylbenz(a)anthracene	2.86	2.654		ug/L		93	63 - 130	8	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	1.493		ug/L		105	69 - 130	0	30	
Aramite Peak 2	1.43	1.464		ug/L		102	65 - 130	7	30	
Diallate Peak 1	2.11	1.693		ug/L		80	69 - 130	1	30	
Diallate Peak 2	0.743	0.6045		ug/L		81	67 - 130	9	30	
Ethyl methanesulfonate	2.86	1.881		ug/L		66	54 - 130	11	30	
Hexachloropropene	2.86	1.157		ug/L		41	37 - 130	12	30	
Isosafrole Peak 1	0.457	0.2860	J	ug/L		63	54 - 130	6	30	
Isosafrole Peak 2	2.40	1.404	*-	ug/L		58	62 - 130	5	30	
Methyl methanesulfonate	2.86	0.8831		ug/L		31	30 - 130	10	30	
N-Nitrosodiethylamine	2.86	2.315		ug/L		81	54 - 130	8	30	
N-Nitrosodimethylamine	2.86	0.7452	*-	ug/L		26	28 - 126	5	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161375/3-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-butylamine	2.86	2.592		ug/L		91	58 - 130	2	30
N-Nitrosomethylethylamine	2.86	1.617		ug/L		57	45 - 130	13	30
N-Nitrosomorpholine	2.86	1.096		ug/L		38	37 - 130	2	30
N-Nitrosopyrrolidine	2.86	1.401		ug/L		49	47 - 130	13	30
p-Dimethylamino azobenzene	2.86	1.933		ug/L		68	61 - 130	2	30
Pentachloronitrobenzene	2.86	2.557		ug/L		89	56 - 130	6	30
Phenacetin	2.86	2.484		ug/L		87	70 - 130	0	30
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120	NC	30
Pronamide	2.86	2.575		ug/L		90	70 - 130	1	30
Safrole, Total	2.86	2.414		ug/L		84	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	101		35 - 130
2-Fluorobiphenyl	98		43 - 130
2-Fluorophenol (Surr)	70		19 - 120
Nitrobenzene-d5 (Surr)	115		37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14	99		47 - 130

**Lab Sample ID: LCSD 860-161375/5-A**  
**Matrix: Water**  
**Analysis Batch: 161477**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate	5.71	5.450		ug/L		95	45 - 138	7	30
Dinoseb	5.71	7.486	*+	ug/L		131	49 - 130	10	30
Disulfoton	5.71	5.763		ug/L		101	38 - 134	15	30
Ethyl Parathion	5.71	7.435		ug/L		130	25 - 173	17	30
Famphur	2.86	3.247		ug/L		114	43 - 142	13	30
Methapyrilene	5.71	7.116		ug/L		125	70 - 183	13	30
Methyl parathion	5.71	7.269		ug/L		127	26 - 159	14	30
o,o',o"-Triethylphosphorothioate	2.86	2.812		ug/L		98	43 - 130	10	30
Phorate	5.71	5.278		ug/L		92	37 - 140	19	30
Sulfotepp	5.71	4.851		ug/L		85	28 - 158	7	30
Thionazin	2.86	2.069		ug/L		72	50 - 150	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	96		35 - 130
2-Fluorobiphenyl	104		43 - 130
2-Fluorophenol (Surr)	75		19 - 120
Nitrobenzene-d5 (Surr)	123		37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	99		47 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MS**

**Matrix: Water**

**Analysis Batch: 161549**

**Client Sample ID: MW-27-D**

**Prep Type: Total/NA**

**Prep Batch: 161375**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
1,2,4-Trichlorobenzene	<0.0766	U H F1	2.86	0.9758	H F1	ug/L		34		44 - 142
1,2-Dichlorobenzene	<0.0941	U H F1	2.86	1.117	H F1	ug/L		39		51 - 130
1,3-Dichlorobenzene	<0.102	U H F1	2.86	0.8926	H F1	ug/L		31		47 - 130
1,4-Dichlorobenzene	<0.0779	U H F1	2.86	0.9529	H F1	ug/L		33		46 - 130
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	2.027	J H	ug/L		71		36 - 166
2,4,5-Trichlorophenol	<0.143	U H	2.86	2.340	H	ug/L		82		35 - 130
2,4,6-Trichlorophenol	<0.231	U H	2.86	2.324	H	ug/L		81		37 - 144
2,4-Dichlorophenol	0.289	J H	2.86	2.516	H	ug/L		78		39 - 135
2,4-Dimethylphenol	<0.192	U H	2.86	2.135	H	ug/L		75		32 - 120
1,4-Dioxane	<0.0890	U H	2.86	0.9885	H	ug/L		35		28 - 130
2,4-Dinitrophenol	<0.104	U H	2.86	1.628	J H	ug/L		57		26 - 191
2,4-Dinitrotoluene	<0.205	U H	2.86	2.271	H	ug/L		79		39 - 139
2,6-Dinitrotoluene	<0.116	U H	2.86	2.273	H	ug/L		80		50 - 158
2-Chloronaphthalene	<0.378	U H F1	2.86	1.562	H F1	ug/L		55		60 - 120
2-Methylnaphthalene	<0.0603	U H	2.86	1.437	H	ug/L		50		25 - 175
2-Methylphenol	<0.105	U H	2.86	1.987	H	ug/L		70		14 - 176
2-Nitroaniline	<0.149	U H	2.86	2.340	H	ug/L		82		59 - 130
2-Nitrophenol	<0.136	U H	2.86	2.380	H	ug/L		83		29 - 182
3 & 4 Methylphenol	<0.139	U H	2.86	1.939	H	ug/L		68		22 - 130
3-Nitroaniline	<0.0853	U H	2.86	1.310	H	ug/L		46		30 - 130
4,6-Dinitro-2-methylphenol	<0.201	U H	2.86	1.865	H	ug/L		65		25 - 181
4-Bromophenyl phenyl ether	<0.100	U H	2.86	1.990	H	ug/L		70		53 - 127
4-Chloro-3-methylphenol	<0.104	U H	2.86	2.227	H	ug/L		78		22 - 147
4-Chloroaniline	<0.0385	U H	2.86	1.286	H	ug/L		45		30 - 130
4-Chlorophenyl phenyl ether	<0.130	U H	2.86	1.762	H	ug/L		62		25 - 158
4-Nitroaniline	<0.109	U H F1 *-	2.86	1.458	H F1	ug/L		51		53 - 130
Acenaphthene	<0.107	U H	2.86	1.766	H	ug/L		62		47 - 145
Acenaphthylene	<0.0996	U H	2.86	1.895	H	ug/L		66		33 - 145
Aniline	<0.0580	U H	2.86	0.9758	H	ug/L		34		20 - 130
Anthracene	<0.0938	U H	2.86	2.070	H	ug/L		72		27 - 133
Benzo[a]anthracene	<0.0286	U H	2.86	2.306	H	ug/L		81		33 - 143
Benzo[a]pyrene	<0.0100	U H	2.86	2.331	H	ug/L		82		17 - 163
Benzo[b]fluoranthene	<0.0664	U H	2.86	2.221	H	ug/L		78		24 - 159
Benzo[g,h,i]perylene	<0.0345	U H	2.86	2.089	H	ug/L		73		25 - 219
Benzo[k]fluoranthene	<0.0473	U H	2.86	2.285	H	ug/L		80		11 - 162
Benzyl alcohol	0.757	J H B	2.86	2.633	H	ug/L		66		57 - 130
Bis(2-chloroethoxy)methane	<0.0974	U H	2.86	2.223	H	ug/L		78		33 - 184
Bis(2-chloroethyl)ether	<0.214	U H	2.86	2.315	H	ug/L		81		12 - 158
Bis(2-ethylhexyl) phthalate	<0.900	U H	2.86	2.511	H	ug/L		88		8 - 158
Butyl benzyl phthalate	<0.500	U H	2.86	2.531	H	ug/L		89		70 - 152
Chrysene	<0.0815	U H	2.86	2.155	H	ug/L		75		17 - 168
Dibenz(a,h)anthracene	<0.0509	U H	2.86	2.125	H	ug/L		74		32 - 227
Dibenzofuran	<0.107	U H	2.86	1.937	H	ug/L		68		48 - 130
Diethyl phthalate	<0.155	U H	2.86	2.096	H	ug/L		73		25 - 120
Dimethyl phthalate	<0.108	U H	2.86	2.268	H	ug/L		79		25 - 120
Di-n-butyl phthalate	<0.765	U H	2.86	2.205	H	ug/L		77		1 - 120
Di-n-octyl phthalate	<0.269	U H	2.86	2.397	H	ug/L		84		4 - 146
Fluoranthene	<0.0883	U H	2.86	2.029	H	ug/L		71		26 - 137

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
Fluorene	<0.0948	U H	2.86	1.980	H	ug/L		69	59 - 121
Hexachlorobenzene	<0.0975	U H	2.86	1.866	H	ug/L		65	8 - 152
Hexachlorobutadiene	<0.103	U H F1	2.86	0.5401	J H F1	ug/L		19	24 - 120
Hexachlorocyclopentadiene	<0.0512	U H F1 F2	2.86	0.5823	H F1	ug/L		20	30 - 130
Hexachloroethane	<0.102	U H F1	2.86	0.6865	H F1	ug/L		24	40 - 120
Indeno[1,2,3-cd]pyrene	<0.100	U H	2.86	2.168	H	ug/L		76	29 - 171
Isophorone	<0.107	U H	2.86	2.283	H	ug/L		80	21 - 196
Naphthalene	<0.0944	U H	2.86	1.542	H	ug/L		54	21 - 133
Nitrobenzene	<0.0736	U H	2.86	2.386	H	ug/L		84	35 - 180
N-Nitrosodi-n-propylamine	<0.119	U H	2.86	2.727	H	ug/L		95	14 - 230
N-Nitrosodiphenylamine	<0.145	U H	2.86	2.329	H	ug/L		82	60 - 130
Pentachlorophenol	<1.04	U H	2.86	2.350	H	ug/L		82	14 - 176
Phenanthrene	<0.134	U H	2.86	2.023	H	ug/L		71	54 - 120
Phenol	<0.448	U H	2.86	1.236	J H	ug/L		43	5 - 120
Pyrene	<0.0849	U H	2.86	2.072	H	ug/L		73	52 - 120
Pyridine	<1.44	U H F1	2.86	<1.44	U H F1	ug/L		0	5 - 120
N-Nitro-o-toluidine	<0.520	U H *-	2.86	1.412	H	ug/L		49	47 - 130
2,3,4,6-Tetrachlorophenol	<0.211	U H	2.86	2.635	H	ug/L		92	33 - 132
Acetophenone	<0.624	U H	2.86	2.283	H	ug/L		80	58 - 130
N-Nitrosopiperidine	<0.467	U H	2.86	1.940	H	ug/L		68	54 - 130
Pentachlorobenzene	<0.266	U H	2.86	1.333	H	ug/L		47	47 - 130
Diphenyl ether	<0.0910	U H F1	2.86	1.635	H F1	ug/L		57	61 - 130
1,1'-Biphenyl	<0.0981	U H F1	2.86	1.461	H F1	ug/L		51	52 - 130
4-Aminobiphenyl	<0.394	U H	2.86	1.174	H	ug/L		41	35 - 130
1,2,4,5-Tetrachlorobenzene	<0.0957	U H F1	2.86	0.9603	H F1	ug/L		34	52 - 130
1,3,5-Trinitrobenzene	<0.119	U H	2.86	1.869	H	ug/L		65	42 - 130
1,3-Dinitrobenzene	<0.0773	U H	2.86	2.299	H	ug/L		80	54 - 130
1,4-Naphthoquinone	<0.314	U H	2.86	2.076	H	ug/L		73	34 - 130
1-Naphthylamine	<0.149	U H F1 F2	2.86	0.4463	J H F1	ug/L		16	40 - 130
2,6-Dichlorophenol	<0.118	U H	2.86	2.120	H	ug/L		74	40 - 130
2-Acetylaminofluorene	<1.26	U H	2.86	3.052	H	ug/L		107	50 - 150
2-Chlorophenol	<0.0756	U H	2.86	2.323	H	ug/L		81	23 - 134
2-Naphthylamine	<0.288	U H	2.86	1.118	H	ug/L		39	30 - 130
2-Picoline	<0.123	U H F1	2.86	0.1953	J H F1	ug/L		7	22 - 130
2-Toluidine	<0.306	U H	2.86	1.112	H	ug/L		39	30 - 130
3,3'-Dichlorobenzidine	<0.183	U H	2.86	1.272	H	ug/L		45	25 - 200
3,3'-Dimethylbenzidine	<0.142	U H *-	2.86	1.148	H	ug/L		40	30 - 130
3-Methylcholanthrene	<0.104	U H *-	2.86	2.058	H	ug/L		72	53 - 130
4-Nitroquinoline-1-oxide	<0.730	U H	2.86	1.949	H	ug/L		68	39 - 130
7,12-Dimethylbenz(a)anthracene	<0.241	U H	2.86	2.262	H	ug/L		79	63 - 130
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *-	2.86	<3.67	U H	ug/L		NC	20 - 130
Aramite Peak 1	<0.0785	U H	1.43	1.361	H	ug/L		95	69 - 130
Aramite Peak 2	<0.0954	U H	1.43	1.239	H	ug/L		87	65 - 130
Diallate Peak 1	<0.0835	U H	2.11	1.512	H	ug/L		72	69 - 130
Diallate Peak 2	<0.0385	U H	0.743	0.5862	H	ug/L		79	67 - 130
Ethyl methanesulfonate	<0.227	U H	2.86	1.740	H	ug/L		61	54 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MS**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Hexachloropropene	<0.300	U H F1 F2 *_	2.86	0.5690	J H F1	ug/L		20	37 - 130
Isosafrole Peak 1	<0.0463	U H	0.457	0.3077	J H	ug/L		67	54 - 130
Isosafrole Peak 2	<0.241	U H *-	2.40	1.610	H	ug/L		67	62 - 130
Methyl methanesulfonate	<0.120	U H	2.86	0.8896	H	ug/L		31	30 - 130
N-Nitrosodiethylamine	<0.538	U H	2.86	1.929	H	ug/L		68	54 - 130
N-Nitrosodimethylamine	<0.100	U H F1 *-	2.86	0.7115	H F1	ug/L		25	30 - 130
N-Nitrosodi-n-butylamine	<0.516	U H	2.86	2.170	H	ug/L		76	58 - 130
N-Nitrosomethylethylamine	<0.294	U H	2.86	1.609	H	ug/L		56	45 - 130
N-Nitrosomorpholine	<0.220	U H F1	2.86	1.004	H F1	ug/L		35	37 - 130
N-Nitrosopyrrolidine	<0.268	U H F1	2.86	1.299	H F1	ug/L		45	47 - 130
p-Dimethylamino azobenzene	<0.0238	U H	2.86	2.207	H	ug/L		77	61 - 130
Pentachloronitrobenzene	<0.100	U H	2.86	2.284	H	ug/L		80	56 - 130
Phenacetin	<0.100	U H	2.86	2.194	H	ug/L		77	70 - 130
p-Phenylene diamine	<0.500	U H F1 *-	2.86	<0.500	U H F1	ug/L		0	3 - 120
Pronamide	<0.100	U H	2.86	2.345	H	ug/L		82	70 - 130
Safrole, Total	<0.0571	U H F1	2.86	1.791	H F1	ug/L		63	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	112		35 - 130
2-Fluorobiphenyl	100		43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	113		37 - 133
Phenol-d5 (Surr)	62		8 - 124
p-Terphenyl-d14	93		47 - 130

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,2,4-Trichlorobenzene	<0.0766	U H F1	2.86	1.299	H	ug/L		45	44 - 142	28	30
1,2-Dichlorobenzene	<0.0941	U H F1	2.86	1.386	H F1	ug/L		49	51 - 130	22	30
1,3-Dichlorobenzene	<0.102	U H F1	2.86	1.140	H F1	ug/L		40	47 - 130	24	30
1,4-Dichlorobenzene	<0.0779	U H F1	2.86	1.154	H F1	ug/L		40	46 - 130	19	30
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	2.199	J I H	ug/L		77	36 - 166	8	30
2,4,5-Trichlorophenol	<0.143	U H	2.86	2.791	H	ug/L		98	35 - 130	18	30
2,4,6-Trichlorophenol	<0.231	U H	2.86	2.668	H	ug/L		93	37 - 144	14	30
2,4-Dichlorophenol	0.289	J H	2.86	2.833	H	ug/L		89	39 - 135	12	30
2,4-Dimethylphenol	<0.192	U H	2.86	2.546	H	ug/L		89	32 - 120	18	30
1,4-Dioxane	<0.0890	U H	2.86	1.068	H	ug/L		37	28 - 130	8	30
2,4-Dinitrophenol	<0.104	U H	2.86	1.790	J H	ug/L		63	26 - 191	9	30
2,4-Dinitrotoluene	<0.205	U H	2.86	2.575	H	ug/L		90	39 - 139	13	30
2,6-Dinitrotoluene	<0.116	U H	2.86	2.670	H	ug/L		93	50 - 158	16	30
2-Chloronaphthalene	<0.378	U H F1	2.86	1.885	H	ug/L		66	60 - 120	19	30
2-Methylnaphthalene	<0.0603	U H	2.86	1.762	H	ug/L		62	25 - 175	20	30
2-Methylphenol	<0.105	U H	2.86	2.214	H	ug/L		77	14 - 176	11	30
2-Nitroaniline	<0.149	U H	2.86	2.753	H	ug/L		96	59 - 130	16	30
2-Nitrophenol	<0.136	U H	2.86	2.842	H	ug/L		99	29 - 182	18	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Added	Result				Qualifier		Limits
3 & 4 Methylphenol	<0.139	U H	2.86	2.126	H	ug/L		74	22 - 130	9	30
3-Nitroaniline	<0.0853	U H	2.86	1.288	H	ug/L		45	30 - 130	2	30
4,6-Dinitro-2-methylphenol	<0.201	U H	2.86	2.132	H	ug/L		75	25 - 181	13	30
4-Bromophenyl phenyl ether	<0.100	U H	2.86	2.275	H	ug/L		80	53 - 127	13	30
4-Chloro-3-methylphenol	<0.104	U H	2.86	2.568	H	ug/L		90	22 - 147	14	30
4-Chloroaniline	<0.0385	U H	2.86	1.261	H	ug/L		44	30 - 130	2	30
4-Chlorophenyl phenyl ether	<0.130	U H	2.86	1.962	H	ug/L		69	25 - 158	11	30
4-Nitroaniline	<0.109	U H F1 *-	2.86	1.633	H	ug/L		57	53 - 130	11	30
Acenaphthene	<0.107	U H	2.86	1.995	H	ug/L		70	47 - 145	12	30
Acenaphthylene	<0.0996	U H	2.86	2.222	H	ug/L		78	33 - 145	16	30
Aniline	<0.0580	U H	2.86	1.015	H	ug/L		36	20 - 130	4	30
Anthracene	<0.0938	U H	2.86	2.389	H	ug/L		84	27 - 133	14	30
Benzo[a]anthracene	<0.0286	U H	2.86	2.582	H	ug/L		90	33 - 143	11	30
Benzo[a]pyrene	<0.0100	U H	2.86	2.555	H	ug/L		89	17 - 163	9	30
Benzo[b]fluoranthene	<0.0664	U H	2.86	2.483	H	ug/L		87	24 - 159	11	30
Benzo[g,h,i]perylene	<0.0345	U H	2.86	2.309	H	ug/L		81	25 - 219	10	30
Benzo[k]fluoranthene	<0.0473	U H	2.86	2.554	H	ug/L		89	11 - 162	11	30
Benzyl alcohol	0.757	J H B	2.86	2.679	H	ug/L		67	57 - 130	2	30
Bis(2-chloroethoxy)methane	<0.0974	U H	2.86	2.615	H	ug/L		92	33 - 184	16	30
Bis(2-chloroethyl)ether	<0.214	U H	2.86	2.510	H	ug/L		88	12 - 158	8	30
Bis(2-ethylhexyl) phthalate	<0.900	U H	2.86	2.727	H	ug/L		95	8 - 158	8	30
Butyl benzyl phthalate	<0.500	U H	2.86	2.795	H	ug/L		98	70 - 152	10	30
Chrysene	<0.0815	U H	2.86	2.367	H	ug/L		83	17 - 168	9	30
Dibenz(a,h)anthracene	<0.0509	U H	2.86	2.341	H	ug/L		82	32 - 227	10	30
Dibenzofuran	<0.107	U H	2.86	2.129	H	ug/L		75	48 - 130	9	30
Diethyl phthalate	<0.155	U H	2.86	2.517	H	ug/L		88	25 - 120	18	30
Dimethyl phthalate	<0.108	U H	2.86	2.712	H	ug/L		95	25 - 120	18	30
Di-n-butyl phthalate	<0.765	U H	2.86	2.476	H	ug/L		87	1 - 120	12	30
Di-n-octyl phthalate	<0.269	U H	2.86	2.673	H	ug/L		94	4 - 146	11	30
Fluoranthene	<0.0883	U H	2.86	2.252	H	ug/L		79	26 - 137	10	30
Fluorene	<0.0948	U H	2.86	2.243	H	ug/L		79	59 - 121	12	30
Hexachlorobenzene	<0.0975	U H	2.86	2.237	H	ug/L		78	8 - 152	18	30
Hexachlorobutadiene	<0.103	U H F1	2.86	0.7320	H	ug/L		26	24 - 120	30	30
Hexachlorocyclopentadiene	<0.0512	U H F1 F2	2.86	0.8042	H F1 F2	ug/L		28	30 - 130	32	30
Hexachloroethane	<0.102	U H F1	2.86	0.9273	H F1	ug/L		32	40 - 120	30	30
Indeno[1,2,3-cd]pyrene	<0.100	U H	2.86	2.351	H	ug/L		82	29 - 171	8	30
Isophorone	<0.107	U H	2.86	2.695	H	ug/L		94	21 - 196	17	30
Naphthalene	<0.0944	U H	2.86	1.927	H	ug/L		67	21 - 133	22	30
Nitrobenzene	<0.0736	U H	2.86	2.517	H	ug/L		88	35 - 180	5	30
N-Nitrosodi-n-propylamine	<0.119	U H	2.86	3.027	H	ug/L		106	14 - 230	10	30
N-Nitrosodiphenylamine	<0.145	U H	2.86	2.571	H	ug/L		90	60 - 130	10	30
Pentachlorophenol	<1.04	U H	2.86	2.618	H	ug/L		92	14 - 176	11	30
Phenanthrene	<0.134	U H	2.86	2.336	H	ug/L		82	54 - 120	14	30
Phenol	<0.448	U H	2.86	1.422	J H	ug/L		50	5 - 120	14	30
Pyrene	<0.0849	U H	2.86	2.310	H	ug/L		81	52 - 120	11	30
Pyridine	<1.44	U H F1	2.86	<1.44	U H F1	ug/L		0	5 - 120	NC	30
N-Nitro-o-toluidine	<0.520	U H *-	2.86	1.559	H	ug/L		55	47 - 130	10	30
2,3,4,6-Tetrachlorophenol	<0.211	U H	2.86	3.023	H	ug/L		106	33 - 132	14	30
Acetophenone	<0.624	U H	2.86	2.514	H	ug/L		88	58 - 130	10	30

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74003-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: MW-27-D**  
**Prep Type: Total/NA**  
**Prep Batch: 161375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Added	Result				Qualifier		
N-Nitrosopiperidine	<0.467	U H	2.86	2.314	H	ug/L		81	54 - 130	18	30
Pentachlorobenzene	<0.266	U H	2.86	1.588	H	ug/L		56	47 - 130	17	30
Diphenyl ether	<0.0910	U H F1	2.86	1.928	H	ug/L		67	61 - 130	16	30
1,1'-Biphenyl	<0.0981	U H F1	2.86	1.856	H	ug/L		65	52 - 130	24	30
4-Aminobiphenyl	<0.394	U H	2.86	1.293	H	ug/L		45	35 - 130	10	30
1,2,4,5-Tetrachlorobenzene	<0.0957	U H F1	2.86	1.213	H F1	ug/L		42	52 - 130	23	30
1,3,5-Trinitrobenzene	<0.119	U H	2.86	2.209	H	ug/L		77	42 - 130	17	30
1,3-Dinitrobenzene	<0.0773	U H	2.86	2.620	H	ug/L		92	54 - 130	13	30
1,4-Naphthoquinone	<0.314	U H	2.86	2.437	H	ug/L		85	34 - 130	16	30
1-Naphthylamine	<0.149	U H F1 F2	2.86	0.6472	H F1 F2	ug/L		23	40 - 130	37	30
		*_									
2,6-Dichlorophenol	<0.118	U H	2.86	2.513	H	ug/L		88	40 - 130	17	30
2-Acetylaminofluorene	<1.26	U H	2.86	3.352	H	ug/L		117	50 - 150	9	30
2-Chlorophenol	<0.0756	U H	2.86	2.576	H	ug/L		90	23 - 134	10	30
2-Naphthylamine	<0.288	U H	2.86	1.137	H	ug/L		40	30 - 130	2	30
2-Picoline	<0.123	U H F1	2.86	0.2611	J H F1	ug/L		9	22 - 130	29	30
2-Toluidine	<0.306	U H	2.86	1.063	H	ug/L		37	30 - 130	5	30
3,3'-Dichlorobenzidine	<0.183	U H	2.86	1.689	H	ug/L		59	25 - 200	28	30
3,3'-Dimethylbenzidine	<0.142	U H *-	2.86	1.125	H	ug/L		39	30 - 130	2	30
3-Methylcholanthrene	<0.104	U H *-	2.86	2.327	H	ug/L		81	53 - 130	12	30
4-Nitroquinoline-1-oxide	<0.730	U H	2.86	2.330	H	ug/L		82	39 - 130	18	30
7,12-Dimethylbenz(a)anthracene	<0.241	U H	2.86	2.506	H	ug/L		88	63 - 130	10	30
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *-	2.86	<3.67	U H	ug/L		NC	20 - 130	NC	30
Aramite Peak 1	<0.0785	U H	1.43	1.510	H	ug/L		106	69 - 130	10	30
Aramite Peak 2	<0.0954	U H	1.43	1.454	H	ug/L		102	65 - 130	16	30
Diallate Peak 1	<0.0835	U H	2.11	1.546	H	ug/L		73	69 - 130	2	30
Diallate Peak 2	<0.0385	U H	0.743	0.6600	H	ug/L		89	67 - 130	12	30
Ethyl methanesulfonate	<0.227	U H	2.86	1.889	H	ug/L		66	54 - 130	8	30
Hexachloropropene	<0.300	U H F1 F2	2.86	0.7907	H F1 F2	ug/L		28	37 - 130	33	30
		*_									
Isosafrole Peak 1	<0.0463	U H	0.457	0.3426	J H	ug/L		75	54 - 130	11	30
Isosafrole Peak 2	<0.241	U H *-	2.40	1.902	H	ug/L		79	62 - 130	17	30
Methyl methanesulfonate	<0.120	U H	2.86	0.9339	H	ug/L		33	30 - 130	5	30
N-Nitrosodiethylamine	<0.538	U H	2.86	2.156	H	ug/L		75	54 - 130	11	30
N-Nitrosodimethylamine	<0.100	U H F1 *-	2.86	0.7558	H F1	ug/L		26	30 - 130	6	30
N-Nitrosodi-n-butylamine	<0.516	U H	2.86	2.493	H	ug/L		87	58 - 130	14	30
N-Nitrosomethylethylamine	<0.294	U H	2.86	1.716	H	ug/L		60	45 - 130	6	30
N-Nitrosomorpholine	<0.220	U H F1	2.86	0.9900	H F1	ug/L		35	37 - 130	1	30
N-Nitrosopyrrolidine	<0.268	U H F1	2.86	1.436	H	ug/L		50	47 - 130	10	30
p-Dimethylamino azobenzene	<0.0238	U H	2.86	2.554	H	ug/L		89	61 - 130	15	30
Pentachloronitrobenzene	<0.100	U H	2.86	2.598	H	ug/L		91	56 - 130	13	30
Phenacetin	<0.100	U H	2.86	2.455	H	ug/L		86	70 - 130	11	30
p-Phenylene diamine	<0.500	U H F1 *-	2.86	<0.500	U H F1	ug/L		0	3 - 120	NC	30
Pronamide	<0.100	U H	2.86	2.562	H	ug/L		90	70 - 130	9	30
Safrole, Total	<0.0571	U H F1	2.86	2.133	H	ug/L		75	70 - 130	17	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	109		35 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-74003-6 MSD

Matrix: Water

Analysis Batch: 161549

Client Sample ID: MW-27-D

Prep Type: Total/NA

Prep Batch: 161375

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	96		43 - 130
2-Fluorophenol (Surr)	80		19 - 120
Nitrobenzene-d5 (Surr)	117		37 - 133
Phenol-d5 (Surr)	58		8 - 124
p-Terphenyl-d14	86		47 - 130

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## GC/MS VOA

### Analysis Batch: 160449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-1	MW-34-SR	Total/NA	Water	8260D	
860-74003-2	MW-129-S	Total/NA	Water	8260D	
860-74003-3	MW-34DR	Total/NA	Water	8260D	
860-74003-4	MW-129-D	Total/NA	Water	8260D	
860-74003-5	MW-32-D	Total/NA	Water	8260D	
860-74003-6	MW-27-D	Total/NA	Water	8260D	
860-74003-7	RB-02	Total/NA	Water	8260D	
860-74003-8	MW-31-D	Total/NA	Water	8260D	
860-74003-9	MW-25	Total/NA	Water	8260D	
860-74003-10	TB-05	Total/NA	Water	8260D	
860-74003-11	MW-33-S	Total/NA	Water	8260D	
860-74003-12	FB-02	Total/NA	Water	8260D	
860-74003-13	MW-33-D	Total/NA	Water	8260D	
860-74003-14	DUPE-02	Total/NA	Water	8260D	
MB 860-160449/10	Method Blank	Total/NA	Water	8260D	
LCS 860-160449/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160449/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74003-6 MS	MW-27-D	Total/NA	Water	8260D	
860-74003-6 MSD	MW-27-D	Total/NA	Water	8260D	

### Analysis Batch: 160545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-10 - RA	TB-05	Total/NA	Water	8260D	
MB 860-160545/9	Method Blank	Total/NA	Water	8260D	
LCS 860-160545/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160545/4	Lab Control Sample Dup	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 160178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-1	MW-34-SR	Total/NA	Water	3511	
860-74003-2	MW-129-S	Total/NA	Water	3511	
860-74003-3	MW-34DR	Total/NA	Water	3511	
860-74003-3 - DL	MW-34DR	Total/NA	Water	3511	
860-74003-4	MW-129-D	Total/NA	Water	3511	
860-74003-5	MW-32-D	Total/NA	Water	3511	
860-74003-6	MW-27-D	Total/NA	Water	3511	
860-74003-7	RB-02	Total/NA	Water	3511	
860-74003-8	MW-31-D	Total/NA	Water	3511	
860-74003-9	MW-25	Total/NA	Water	3511	
860-74003-11	MW-33-S	Total/NA	Water	3511	
860-74003-11 - DL	MW-33-S	Total/NA	Water	3511	
860-74003-13 - DL	MW-33-D	Total/NA	Water	3511	
860-74003-13 - DL2	MW-33-D	Total/NA	Water	3511	
860-74003-13	MW-33-D	Total/NA	Water	3511	
860-74003-14 - DL2	DUPE-02	Total/NA	Water	3511	
860-74003-14 - DL	DUPE-02	Total/NA	Water	3511	
860-74003-14	DUPE-02	Total/NA	Water	3511	
MB 860-160178/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160178/2-A	Lab Control Sample	Total/NA	Water	3511	

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 160178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-160178/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160178/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160178/5-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-74003-6 MS	MW-27-D	Total/NA	Water	3511	
860-74003-6 MSD	MW-27-D	Total/NA	Water	3511	

### Analysis Batch: 160340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-160178/1-A	Method Blank	Total/NA	Water	8270E	160178
LCS 860-160178/2-A	Lab Control Sample	Total/NA	Water	8270E	160178
LCS 860-160178/4-A	Lab Control Sample	Total/NA	Water	8270E	160178
LCSD 860-160178/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160178
LCSD 860-160178/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160178

### Analysis Batch: 160913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-1	MW-34-SR	Total/NA	Water	8270E	160178
860-74003-2	MW-129-S	Total/NA	Water	8270E	160178
860-74003-3	MW-34DR	Total/NA	Water	8270E	160178
860-74003-4	MW-129-D	Total/NA	Water	8270E	160178
860-74003-5	MW-32-D	Total/NA	Water	8270E	160178
860-74003-6	MW-27-D	Total/NA	Water	8270E	160178
860-74003-7	RB-02	Total/NA	Water	8270E	160178
860-74003-8	MW-31-D	Total/NA	Water	8270E	160178
860-74003-9	MW-25	Total/NA	Water	8270E	160178
860-74003-11	MW-33-S	Total/NA	Water	8270E	160178
860-74003-13	MW-33-D	Total/NA	Water	8270E	160178
860-74003-14	DUPE-02	Total/NA	Water	8270E	160178
860-74003-6 MS	MW-27-D	Total/NA	Water	8270E	160178
860-74003-6 MSD	MW-27-D	Total/NA	Water	8270E	160178

### Analysis Batch: 161181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-3 - DL	MW-34DR	Total/NA	Water	8270E	160178
860-74003-11 - DL	MW-33-S	Total/NA	Water	8270E	160178

### Prep Batch: 161375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-1 - RE	MW-34-SR	Total/NA	Water	3511	
860-74003-3 - RE	MW-34DR	Total/NA	Water	3511	
860-74003-3 - REDL	MW-34DR	Total/NA	Water	3511	
860-74003-4 - RE	MW-129-D	Total/NA	Water	3511	
860-74003-5 - RE	MW-32-D	Total/NA	Water	3511	
860-74003-6 - RE	MW-27-D	Total/NA	Water	3511	
860-74003-7 - RE	RB-02	Total/NA	Water	3511	
MB 860-161375/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-161375/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-161375/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-161375/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-161375/5-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-74003-6 MS	MW-27-D	Total/NA	Water	3511	

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 161375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-6 MSD	MW-27-D	Total/NA	Water	3511	

### Analysis Batch: 161477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-161375/1-A	Method Blank	Total/NA	Water	8270E	161375
LCS 860-161375/2-A	Lab Control Sample	Total/NA	Water	8270E	161375
LCS 860-161375/4-A	Lab Control Sample	Total/NA	Water	8270E	161375
LCSD 860-161375/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	161375
LCSD 860-161375/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	161375

### Analysis Batch: 161500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-13 - DL	MW-33-D	Total/NA	Water	8270E	160178
860-74003-13 - DL2	MW-33-D	Total/NA	Water	8270E	160178
860-74003-14 - DL	DUPE-02	Total/NA	Water	8270E	160178
860-74003-14 - DL2	DUPE-02	Total/NA	Water	8270E	160178

### Analysis Batch: 161549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-1 - RE	MW-34-SR	Total/NA	Water	8270E	161375
860-74003-3 - RE	MW-34DR	Total/NA	Water	8270E	161375
860-74003-4 - RE	MW-129-D	Total/NA	Water	8270E	161375
860-74003-5 - RE	MW-32-D	Total/NA	Water	8270E	161375
860-74003-6 - RE	MW-27-D	Total/NA	Water	8270E	161375
860-74003-7 - RE	RB-02	Total/NA	Water	8270E	161375
860-74003-6 MS	MW-27-D	Total/NA	Water	8270E	161375
860-74003-6 MSD	MW-27-D	Total/NA	Water	8270E	161375

### Analysis Batch: 161812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74003-3 - REDL	MW-34DR	Total/NA	Water	8270E	161375

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Client Sample ID: MW-34-SR

## Lab Sample ID: 860-74003-1

Date Collected: 05/09/24 08:20

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/15/24 22:43	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 20:44	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161549	05/22/24 12:17	LPL	EET HOU

## Client Sample ID: MW-129-S

## Lab Sample ID: 860-74003-2

Date Collected: 05/09/24 08:40

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/15/24 23:04	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 21:14	T1S	EET HOU

## Client Sample ID: MW-34DR

## Lab Sample ID: 860-74003-3

Date Collected: 05/09/24 09:01

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/15/24 23:24	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 21:44	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161549	05/22/24 12:46	LPL	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E	DL	20	1 mL	1 mL	161181	05/20/24 16:33	EM	EET HOU
Total/NA	Prep	3511	REDL		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	REDL	20	1 mL	1 mL	161812	05/23/24 06:13	EM	EET HOU

## Client Sample ID: MW-129-D

## Lab Sample ID: 860-74003-4

Date Collected: 05/09/24 09:09

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/15/24 23:45	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 22:13	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161549	05/22/24 13:16	LPL	EET HOU

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Client Sample ID: MW-32-D

Lab Sample ID: 860-74003-5

Date Collected: 05/09/24 10:09

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 00:05	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 22:43	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161549	05/22/24 13:45	LPL	EET HOU

## Client Sample ID: MW-27-D

Lab Sample ID: 860-74003-6

Date Collected: 05/09/24 10:14

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/15/24 22:22	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 19:15	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161549	05/22/24 08:21	LPL	EET HOU

## Client Sample ID: RB-02

Lab Sample ID: 860-74003-7

Date Collected: 05/09/24 10:45

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 00:26	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 23:13	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161375	05/21/24 06:20	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161549	05/22/24 14:15	LPL	EET HOU

## Client Sample ID: MW-31-D

Lab Sample ID: 860-74003-8

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 00:46	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 23:42	T1S	EET HOU

## Client Sample ID: MW-25

Lab Sample ID: 860-74003-9

Date Collected: 05/09/24 11:24

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 01:07	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/18/24 00:12	T1S	EET HOU

Eurofins Houston

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Client Sample ID: TB-05

Lab Sample ID: 860-74003-10

Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 01:27	NA	EET HOU
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	160545	05/16/24 11:23	NA	EET HOU

## Client Sample ID: MW-33-S

Lab Sample ID: 860-74003-11

Date Collected: 05/09/24 13:27

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 01:48	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/18/24 00:42	T1S	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E	DL	20	1 mL	1 mL	161181	05/20/24 17:02	EM	EET HOU

## Client Sample ID: FB-02

Lab Sample ID: 860-74003-12

Date Collected: 05/09/24 15:27

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 02:08	NA	EET HOU

## Client Sample ID: MW-33-D

Lab Sample ID: 860-74003-13

Date Collected: 05/09/24 13:55

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 02:29	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E	DL	20	1 mL	1 mL	161500	05/21/24 22:26	EM	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E	DL2	1000	1 mL	1 mL	161500	05/21/24 22:55	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/18/24 01:11	T1S	EET HOU

## Client Sample ID: DUPE-02

Lab Sample ID: 860-74003-14

Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/10/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160449	05/16/24 02:49	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E	DL	20	1 mL	1 mL	161500	05/21/24 23:23	EM	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E	DL2	1000	1 mL	1 mL	161500	05/21/24 23:52	EM	EET HOU

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

**Client Sample ID: DUPE-02**

**Lab Sample ID: 860-74003-14**

**Date Collected: 05/09/24 00:00**

**Matrix: Water**

**Date Received: 05/10/24 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			35.00 mL	2.00 mL	160178	05/14/24 14:39	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/18/24 01:41	T1S	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74003-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-74003-1	MW-34-SR	Water	05/09/24 08:20	05/10/24 09:50
860-74003-2	MW-129-S	Water	05/09/24 08:40	05/10/24 09:50
860-74003-3	MW-34DR	Water	05/09/24 09:01	05/10/24 09:50
860-74003-4	MW-129-D	Water	05/09/24 09:09	05/10/24 09:50
860-74003-5	MW-32-D	Water	05/09/24 10:09	05/10/24 09:50
860-74003-6	MW-27-D	Water	05/09/24 10:14	05/10/24 09:50
860-74003-7	RB-02	Water	05/09/24 10:45	05/10/24 09:50
860-74003-8	MW-31-D	Water	05/09/24 11:24	05/10/24 09:50
860-74003-9	MW-25	Water	05/09/24 11:24	05/10/24 09:50
860-74003-10	TB-05	Water	05/09/24 00:00	05/10/24 09:50
860-74003-11	MW-33-S	Water	05/09/24 13:27	05/10/24 09:50
860-74003-12	FB-02	Water	05/09/24 15:27	05/10/24 09:50
860-74003-13	MW-33-D	Water	05/09/24 13:55	05/10/24 09:50
860-74003-14	DUPE-02	Water	05/09/24 00:00	05/10/24 09:50

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**Eurofins Houston**  
 4145 Greenbar Dr  
 Stafford, TX 77477  
 Phone (281) 240-4200

*AREA #1*

**Chain of Custody Record**

**eurofins** | Environment Testing

**Client Information**  
 Client Contact: Mr Antonio Cardoso  
 Company: Arcadis U.S. Inc.  
 Address: 4300 West Cypress Street Suite 450  
 City: Tampa  
 State, Zip: FL, 33607  
 Phone: [Blank]  
 Email: antonio.cardoso@arcadis.com  
 Project Name: Hercules Hattiesburg, MS  
 Site: [Blank]

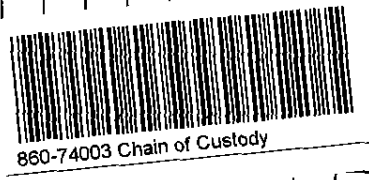
**Analysis Requested**  
 Due Date Requested: [Blank]  
 TAT Requested (days): [Blank]  
 Compliance Project:  Yes  No  
 PO #: 1095575  
 WQ #: [Blank]  
 Project #: 86006085  
 SSOV#: [Blank]

**Carrier Tracking**  
 Carrier Tracking No(s): [Blank]  
 State of Origin: [Blank]

**Lab Info**  
 Lab PI#: [Blank]  
 Lab PI: Sachin Kudchacker  
 E-Mail: Sachin.Kudchacker@eurofins.com

**COC No:** 860-29133-10045.5  
**Page:** 5 of 8  
**Job #:** 2092

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sediment, Air, etc)	Field Filtered Sample (Yes or No)	Analysis Requested	Carrier Tracking No(s)	COC No:
MW-67	5-9-24	0820	G	Water	N	8270E_QQ (MOD) Appendix 9 SVOCs		860-29133-10045.5
MW-66		0840		Water	N	8260D (MOD) Appendix 9 VOCs		
MW-65		0901		Water	N			
MW-64		0904		Water	N			
MW-63		1014		Water	N			
MW-62		1045		Water	N			
MW-61		1124		Water	N			
MW-60		1124		Water	N			
MW-59		1327		Water	N			
MW-58				Water	N			
MW-57				Water	N			
MW-56				Water	N			
MW-55				Water	N			
MW-54				Water	N			
MW-53				Water	N			
MW-52				Water	N			
MW-51				Water	N			
MW-50				Water	N			
MW-49				Water	N			
MW-48				Water	N			
MW-47				Water	N			
MW-46				Water	N			
MW-45				Water	N			



**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Deliverable Requested:** I, II, III, IV Other (specify): [Blank]

**Empty Kit Required by:** [Blank] **Date:** [Blank] **Time:** [Blank]

**Relinquished by:** [Signature] **Date/Time:** 8-9-24 / 1500 **Company:** HARPIS

**Relinquished by:** [Signature] **Date/Time:** [Blank] **Company:** [Blank]

**Relinquished by:** [Signature] **Date/Time:** [Blank] **Company:** [Blank]

**Custody Seals Intact:**  Yes  No **Custody Seal No:** 252 0661

**Special Instructions/Note:** [Blank]

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):**  
 Return To Client  Disposal By Lab  Archive For [Blank] Months

**Method of Shipment:** [Blank] **Date/Time:** [Blank] **Company:** [Blank]

**Received by:** [Signature] **Date/Time:** 5/10/24 950 **Company:** [Blank]

**Received by:** [Signature] **Date/Time:** [Blank] **Company:** [Blank]

**Cooler Temperature(s) °C and Other Remarks:** 22 24 HUW 360

**Eurofins Houston**

4145 Greenbriar Dr  
Stafford, TX 77477  
Phone (281) 240-4200

*APEN #1*

**Chain of Custody Record**



Environment Testing

**Client Information**

Client Contact: Mr Antonio Cardoso  
Company: Arcadis U S Inc.  
Address: 4300 West Cypress Street Suite 450  
City: Tampa  
State, Zip: FL, 33607  
Phone: \_\_\_\_\_  
Email: antonio.cardoso@arcadis.com  
Project Name: Hercules Hattiesburg, MS  
Site: \_\_\_\_\_

Sampler: *K Mendiguan*  
Phone: *855-305-8661*  
Job #.: \_\_\_\_\_  
PWSID: \_\_\_\_\_

Lab P#: \_\_\_\_\_  
Kudchadkar Sachin G  
E-Mail: Sachin.Kudchadkar@eurofins.com  
Carrier Tracking No(s): \_\_\_\_\_  
State or Origin: \_\_\_\_\_

COC No: B60-29133-10045.4  
Page: Page 4 of 8  
Job #: *1012*

Preservation Codes: N None

Due Date Requested: \_\_\_\_\_  
TAT Requested (days): \_\_\_\_\_  
Compliance Project:  Yes  No  
PC #: 1095575  
MO #: \_\_\_\_\_  
Project #: 86006085  
SSCW#: \_\_\_\_\_

**Analysis Requested**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Dewatered, etc.)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)	8270E_QQQ (MOD) Appendix 9 SVOCs	8260D (MOD) Appendix 9 VOCs	Total Number of containers	Special Instructions/Note:
<del>MM-32D</del>	<del>5/16/24</del>	<del>1527</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>3</del>	<del>_____</del>
<del>MM-33R</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33S</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33D</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33A</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33B</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33C</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33E</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33F</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33G</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33H</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33I</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33J</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33K</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33L</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33M</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33N</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33O</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33P</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33Q</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33R</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33S</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33T</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33U</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33V</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33W</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33X</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33Y</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>
<del>MM-33Z</del>	<del>1/13/24</del>	<del>1355</del>	<del>G</del>	<del>Water</del>	<del>X</del>	<del>N</del>	<del>N</del>	<del>N</del>	<del>7</del>	<del>_____</del>

**Possible Hazard Identification**

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I II III IV Other (Specify) \_\_\_\_\_

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *K Mendiguan* Date/Time: *5-9-24/1500* Company: *MMAS*

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Custody Seal No: *25286661*

Special Instructions/QC Requirements: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: *Numer* Date/Time: *5/10/24 450* Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74003-1

**Login Number: 74003**

**List Number: 1**

**Creator: Jimenez, Nicanor**

**List Source: Eurofins Houston**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

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**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-74062-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Houston

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74062-1

Job ID: 860-74062-1

Eurofins Houston

## Job Narrative 860-74062-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/13/2024 11:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

### GC/MS VOA

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 860-160794 recovered outside control limits for the following analytes: 1,4-Dioxane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-160794 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-73 (860-74062-3). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-50 (860-74062-4) and DUPE-03 (860-74062-5). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-160822 were outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-160172 and analytical batch 860-160340 was outside the upper control limits.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-54 (860-74062-1) and DUPE-03 (860-74062-5). These results have been reported and qualified.

Method 8270E\_QQQ: The method blank for preparation batch 860-160172 and analytical batch 860-160340 contained Benzyl alcohol and Pronamide above the method detection limit. These target analytes concentration were less than the reporting limit in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, alpha,alpha-Dimethyl phenethylamine, and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analytes. These results have been reported and qualified.

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Job ID: 860-74062-1 (Continued)

Eurofins Houston

Method 8270E\_QQQ: Surrogate recovery for the following samples were outside control limits: MW-75 (860-74062-2), MW-73 (860-74062-3) and MW-50 (860-74062-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-160172 and analytical batch 860-160340 recovered outside control limits for the following analytes: p-Phenylene diamine.

Method 8270E\_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-73 (860-74062-3), MW-50 (860-74062-4) and DUPE-03 (860-74062-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E\_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-73 (860-74062-3), MW-50 (860-74062-4) and DUPE-03 (860-74062-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E\_QQQ: The continuing calibration verification (CCV) associated with batch 860-161344 recovered above the upper control limit for Benzo[k]fluoranthene, 2,4-Dichlorophenol Hexachloroethane and alpha,alpha-Dimethyl phenethylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-161344/2).

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-73 (860-74062-3), MW-50 (860-74062-4) and DUPE-03 (860-74062-5). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-73 (860-74062-3). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: MW-73 (860-74062-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E\_QQQ: The surrogate recovery for the method blank and laboratory control sample duplicate associated with preparation batch 860-161377 and analytical batch 860-161549 was outside the upper control limits.

Method 8270E\_QQQ: The following sample required a dilution due to the nature of the sample matrix: DUPE-03 (860-74062-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E\_QQQ: The following sample was diluted due to the nature of the sample matrix: DUPE-03 (860-74062-5). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUPE-03 (860-74062-5). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: The method blank for preparation batch 860-161377 and analytical batch 860-161549 contained Benzo[a]anthracene and Benzyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-161377 and analytical batch 860-161549 recovered outside control limits for the following analyte: Dinoseb. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-161377 and analytical batch 860-161549 recovered outside control limits for the following analytes: 1,2,4,5-Tetrachlorobenzene, 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroaniline, alpha,alpha-Dimethyl phenethylamine, Hexachloropropene, Isosafrole Peak 2, N-Nitro-o-toluidine, N-Nitrosodimethylamine and p-Phenylene diamine. The associated sample was re-prepared and/or re-analyzed outside holding time.

Method 8270E\_QQQ: The following sample was re-prepared and re-analyzed outside of preparation holding time due to initial analysis Benzyl alcohol contamination in method blank: DUPE-03 (860-74062-5).

Eurofins Houston

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Job ID: 860-74062-1 (Continued)**

**Eurofins Houston**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Client Sample ID: MW-54

## Lab Sample ID: 860-74062-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.217	J	2.86	0.104	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-75

## Lab Sample ID: 860-74062-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.221	J I	2.86	0.104	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.661	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-73

## Lab Sample ID: 860-74062-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	48900		500	230	ug/L	500		8260D	Total/NA
Tetrahydrofuran	1040	J	5000	917	ug/L	500		8260D	Total/NA
Toluene	960		500	238	ug/L	500		8260D	Total/NA
1,2-Dichlorobenzene	0.170	J	0.571	0.0941	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol	1.32		0.571	0.192	ug/L	1		8270E	Total/NA
1,4-Dioxane	7.21		0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylphenol	13.8		0.571	0.105	ug/L	1		8270E	Total/NA
4-Chloroaniline	0.0488	J	0.571	0.0385	ug/L	1		8270E	Total/NA
Acenaphthene	0.127	J	0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol	16.4	I B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	3.40		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.185	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	17.8	*+	0.571	0.0944	ug/L	1		8270E	Total/NA
Acetophenone	7.46		1.14	0.624	ug/L	1		8270E	Total/NA
2-Chlorophenol	0.0896	J	0.571	0.0756	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol - DL	32.2		28.6	6.94	ug/L	50		8270E	Total/NA
Phenol - DL	212		143	22.4	ug/L	50		8270E	Total/NA
Diphenyl ether - DL2	6640		286	45.5	ug/L	500		8270E	Total/NA
1,1'-Biphenyl - DL2	2010		286	49.1	ug/L	500		8270E	Total/NA

## Client Sample ID: MW-50

## Lab Sample ID: 860-74062-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.64	J	50.0	8.28	ug/L	1		8260D	Total/NA
Acetone	221		100	3.07	ug/L	1		8260D	Total/NA
Chlorobenzene	2.09		1.00	0.455	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	0.878	J	1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	1.07		1.00	0.385	ug/L	1		8260D	Total/NA
Toluene	123		1.00	0.475	ug/L	1		8260D	Total/NA
Xylenes, Total	1.99	J	10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.00139	J	0.0100	0.00124	mg/L	1		8260D	Total/NA
o-Xylene	0.000596	J	0.00100	0.000502	mg/L	1		8260D	Total/NA
Benzene - DL	1590		50.0	23.0	ug/L	50		8260D	Total/NA
Tetrahydrofuran - DL	1090		500	91.7	ug/L	50		8260D	Total/NA
1,2-Dichlorobenzene	0.217	J	0.571	0.0941	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol	0.312	J	0.571	0.192	ug/L	1		8270E	Total/NA
1,4-Dioxane	7.71		0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylphenol	0.748		0.571	0.105	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	5.30		0.571	0.139	ug/L	1		8270E	Total/NA
Acenaphthylene	0.167	J	0.571	0.0996	ug/L	1		8270E	Total/NA
Benzyl alcohol	2.25	I B	1.14	0.600	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Client Sample ID: MW-50 (Continued)

## Lab Sample ID: 860-74062-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	5.67		0.571	0.107	ug/L	1		8270E	Total/NA
Di-n-octyl phthalate	15.5		1.14	0.269	ug/L	1		8270E	Total/NA
Fluorene	0.228	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	22.8	*+	0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol	8.14		2.86	0.448	ug/L	1		8270E	Total/NA
Acetophenone	1.11	J	1.14	0.624	ug/L	1		8270E	Total/NA
Diphenyl ether - DL2	11600		571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl - DL2	3570		571	98.1	ug/L	1000		8270E	Total/NA

## Client Sample ID: DUPE-03

## Lab Sample ID: 860-74062-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	194		100	3.07	ug/L	1		8260D	Total/NA
Chlorobenzene	2.02		1.00	0.455	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	0.826	J	1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	1.05		1.00	0.385	ug/L	1		8260D	Total/NA
Toluene	126		1.00	0.475	ug/L	1		8260D	Total/NA
Xylenes, Total	2.16	J	10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.00149	J	0.0100	0.00124	mg/L	1		8260D	Total/NA
o-Xylene	0.000667	J	0.00100	0.000502	mg/L	1		8260D	Total/NA
Benzene - DL	1620		50.0	23.0	ug/L	50		8260D	Total/NA
Tetrahydrofuran - DL	1050		500	91.7	ug/L	50		8260D	Total/NA
1,2-Dichlorobenzene	0.206	J	0.571	0.0941	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol	0.352	J	0.571	0.192	ug/L	1		8270E	Total/NA
1,4-Dioxane	7.27		0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylphenol	0.777		0.571	0.105	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	5.41		0.571	0.139	ug/L	1		8270E	Total/NA
4-Chloroaniline	0.0413	J	0.571	0.0385	ug/L	1		8270E	Total/NA
Acenaphthylene	0.175	J	0.571	0.0996	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0230	J B *+	0.0286	0.00953	ug/L	1		8270E	Total/NA
Benzyl alcohol	2.62	B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	5.69		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.231	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	22.2	*+	0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol	6.58		2.86	0.448	ug/L	1		8270E	Total/NA
Acetophenone	1.16		1.14	0.624	ug/L	1		8270E	Total/NA
Diphenyl ether - DL2	11100		571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl - DL2	3330		571	98.1	ug/L	1000		8270E	Total/NA
2,4-Dichlorophenol - RE	9.41	J H	28.6	7.00	ug/L	50		8270E	Total/NA
1,4-Dioxane - RE	8.53	J H	28.6	4.45	ug/L	50		8270E	Total/NA
2-Methylnaphthalene - RE	3.27	J H I	28.6	3.01	ug/L	50		8270E	Total/NA
Dibenzofuran - RE	6.06	J H	28.6	5.33	ug/L	50		8270E	Total/NA
Naphthalene - RE	23.7	J H	28.6	4.72	ug/L	50		8270E	Total/NA
Diphenyl ether - REDL	13200	H	571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl - REDL	4320	H	571	98.1	ug/L	1000		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-54**

**Lab Sample ID: 860-74062-1**

**Date Collected: 05/10/24 07:59**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/17/24 10:13	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/17/24 10:13	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/17/24 10:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/17/24 10:13	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/17/24 10:13	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/17/24 10:13	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/17/24 10:13	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/17/24 10:13	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/17/24 10:13	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/17/24 10:13	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/17/24 10:13	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/17/24 10:13	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/17/24 10:13	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/17/24 10:13	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/17/24 10:13	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/17/24 10:13	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/17/24 10:13	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/17/24 10:13	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/17/24 10:13	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/17/24 10:13	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/17/24 10:13	1
Acetone	<3.07	U	100	3.07	ug/L			05/17/24 10:13	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/17/24 10:13	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/17/24 10:13	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/17/24 10:13	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/17/24 10:13	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/17/24 10:13	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/17/24 10:13	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/17/24 10:13	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/17/24 10:13	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/17/24 10:13	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/17/24 10:13	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/17/24 10:13	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/17/24 10:13	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/17/24 10:13	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/17/24 10:13	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/17/24 10:13	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/17/24 10:13	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/17/24 10:13	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/17/24 10:13	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/17/24 10:13	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/17/24 10:13	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/17/24 10:13	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/17/24 10:13	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/17/24 10:13	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/17/24 10:13	1
Hexane	<0.517	U F1	5.00	0.517	ug/L			05/17/24 10:13	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/17/24 10:13	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/17/24 10:13	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-54**

**Lab Sample ID: 860-74062-1**

**Date Collected: 05/10/24 07:59**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/17/24 10:13	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/17/24 10:13	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/17/24 10:13	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/17/24 10:13	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/17/24 10:13	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/17/24 10:13	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/17/24 10:13	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/17/24 10:13	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/17/24 10:13	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/17/24 10:13	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/17/24 10:13	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/17/24 10:13	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/17/24 10:13	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/17/24 10:13	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/17/24 10:13	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/17/24 10:13	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/17/24 10:13	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/17/24 10:13	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/17/24 10:13	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/17/24 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/17/24 10:13	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/17/24 10:13	1
Dibromofluoromethane (Surr)	99		75 - 131		05/17/24 10:13	1
Toluene-d8 (Surr)	99		80 - 120		05/17/24 10:13	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 16:47	1
<b>2,4-Dinitrophenol</b>	<b>0.217</b>	<b>J</b>	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 16:47	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/17/24 16:47	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 16:47	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 16:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-54**

**Lab Sample ID: 860-74062-1**

**Date Collected: 05/10/24 07:59**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 16:47	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 16:47	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 16:47	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 16:47	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 16:47	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 16:47	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 16:47	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 16:47	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 16:47	1
Benzo[a]anthracene	<0.0286	U **	0.0286	0.0286	ug/L		05/14/24 14:30	05/17/24 16:47	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 16:47	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 16:47	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 16:47	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 16:47	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 16:47	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 16:47	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 16:47	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 16:47	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 16:47	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 16:47	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 16:47	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 16:47	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 16:47	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 16:47	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 16:47	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 16:47	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 16:47	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 16:47	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 16:47	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 16:47	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 16:47	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 16:47	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 16:47	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 16:47	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 16:47	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 16:47	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 16:47	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 16:47	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/17/24 16:47	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 16:47	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 16:47	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 16:47	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 16:47	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/17/24 16:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-54**

**Lab Sample ID: 860-74062-1**

**Date Collected: 05/10/24 07:59**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/17/24 16:47	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 16:47	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 16:47	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 16:47	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 16:47	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 16:47	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 16:47	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 16:47	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 16:47	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 16:47	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 16:47	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 16:47	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 16:47	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 16:47	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 16:47	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 16:47	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 16:47	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 16:47	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 16:47	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 16:47	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 16:47	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 16:47	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 16:47	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 16:47	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 16:47	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 16:47	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 16:47	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 16:47	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 16:47	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 16:47	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 16:47	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 16:47	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 16:47	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 16:47	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 16:47	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 16:47	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 16:47	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-54**

**Lab Sample ID: 860-74062-1**

**Date Collected: 05/10/24 07:59**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U *- *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 16:47	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 16:47	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 16:47	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 16:47	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	131	S1+	35 - 130	05/14/24 14:30	05/17/24 16:47	1
2-Fluorobiphenyl	122		43 - 130	05/14/24 14:30	05/17/24 16:47	1
2-Fluorophenol (Surr)	102		19 - 120	05/14/24 14:30	05/17/24 16:47	1
Nitrobenzene-d5 (Surr)	132		37 - 133	05/14/24 14:30	05/17/24 16:47	1
Phenol-d5 (Surr)	76		8 - 124	05/14/24 14:30	05/17/24 16:47	1
p-Terphenyl-d14	95		47 - 130	05/14/24 14:30	05/17/24 16:47	1

**Client Sample ID: MW-75**

**Lab Sample ID: 860-74062-2**

**Date Collected: 05/10/24 08:17**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/17/24 12:16	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/17/24 12:16	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/17/24 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/17/24 12:16	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/17/24 12:16	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/17/24 12:16	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/17/24 12:16	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/17/24 12:16	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/17/24 12:16	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/17/24 12:16	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/17/24 12:16	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/17/24 12:16	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/17/24 12:16	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/17/24 12:16	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/17/24 12:16	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/17/24 12:16	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/17/24 12:16	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/17/24 12:16	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/17/24 12:16	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/17/24 12:16	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/17/24 12:16	1
Acetone	<3.07	U	100	3.07	ug/L			05/17/24 12:16	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/17/24 12:16	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/17/24 12:16	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/17/24 12:16	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/17/24 12:16	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/17/24 12:16	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/17/24 12:16	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/17/24 12:16	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/17/24 12:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-75**

**Lab Sample ID: 860-74062-2**

Date Collected: 05/10/24 08:17

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/17/24 12:16	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/17/24 12:16	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/17/24 12:16	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/17/24 12:16	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/17/24 12:16	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/17/24 12:16	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/17/24 12:16	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/17/24 12:16	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/17/24 12:16	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/17/24 12:16	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/17/24 12:16	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/17/24 12:16	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/17/24 12:16	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/17/24 12:16	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/17/24 12:16	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/17/24 12:16	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/17/24 12:16	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/17/24 12:16	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/17/24 12:16	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/17/24 12:16	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/17/24 12:16	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/17/24 12:16	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/17/24 12:16	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/17/24 12:16	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/17/24 12:16	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/17/24 12:16	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/17/24 12:16	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/17/24 12:16	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/17/24 12:16	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/17/24 12:16	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/17/24 12:16	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/17/24 12:16	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/17/24 12:16	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/17/24 12:16	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/17/24 12:16	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/17/24 12:16	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/17/24 12:16	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/17/24 12:16	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/17/24 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/17/24 12:16	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/17/24 12:16	1
Dibromofluoromethane (Surr)	101		75 - 131		05/17/24 12:16	1
Toluene-d8 (Surr)	100		80 - 120		05/17/24 12:16	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 17:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-75**

**Lab Sample ID: 860-74062-2**

Date Collected: 05/10/24 08:17

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 17:17	1
<b>2,4-Dinitrophenol</b>	<b>0.221</b>	<b>J I</b>	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 17:17	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/17/24 17:17	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 17:17	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 17:17	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 17:17	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 17:17	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 17:17	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 17:17	1
Benzo[a]anthracene	<0.0286	U **	0.0286	0.0286	ug/L		05/14/24 14:30	05/17/24 17:17	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 17:17	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 17:17	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 17:17	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 17:17	1
<b>Benzyl alcohol</b>	<b>0.661</b>	<b>J B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 17:17	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 17:17	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 17:17	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 17:17	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 17:17	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 17:17	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 17:17	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 17:17	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 17:17	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 17:17	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 17:17	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 17:17	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 17:17	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 17:17	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 17:17	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 17:17	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-75**

**Lab Sample ID: 860-74062-2**

Date Collected: 05/10/24 08:17

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 17:17	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 17:17	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:17	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 17:17	1
Naphthalene	<0.0944	U **	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 17:17	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 17:17	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 17:17	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 17:17	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/17/24 17:17	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 17:17	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 17:17	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 17:17	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 17:17	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 17:17	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 17:17	1
1-Naphthylamine	<0.149	U *- *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 17:17	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 17:17	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 17:17	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 17:17	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 17:17	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 17:17	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 17:17	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 17:17	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 17:17	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 17:17	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 17:17	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 17:17	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 17:17	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 17:17	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 17:17	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 17:17	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 17:17	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 17:17	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 17:17	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 17:17	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-75**

**Lab Sample ID: 860-74062-2**

Date Collected: 05/10/24 08:17

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 17:17	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 17:17	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 17:17	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 17:17	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 17:17	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 17:17	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 17:17	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 17:17	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 17:17	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 17:17	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 17:17	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:17	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:17	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 17:17	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 17:17	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:17	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 17:17	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 17:17	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	144	S1+	35 - 130	05/14/24 14:30	05/17/24 17:17	1
2-Fluorobiphenyl	134	S1+	43 - 130	05/14/24 14:30	05/17/24 17:17	1
2-Fluorophenol (Surr)	102		19 - 120	05/14/24 14:30	05/17/24 17:17	1
Nitrobenzene-d5 (Surr)	136	S1+	37 - 133	05/14/24 14:30	05/17/24 17:17	1
Phenol-d5 (Surr)	73		8 - 124	05/14/24 14:30	05/17/24 17:17	1
p-Terphenyl-d14	108		47 - 130	05/14/24 14:30	05/17/24 17:17	1

**Client Sample ID: MW-73**

**Lab Sample ID: 860-74062-3**

Date Collected: 05/10/24 09:07

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<322	U	500	322	ug/L			05/17/24 17:15	500
1,1,1-Trichloroethane	<293	U	2500	293	ug/L			05/17/24 17:15	500
1,1,1,2-Tetrachloroethane	<235	U	500	235	ug/L			05/17/24 17:15	500
1,1,2-Trichloro-1,2,2-trifluoroethane	<555	U	5000	555	ug/L			05/17/24 17:15	500
1,1,2-Trichloroethane	<206	U	500	206	ug/L			05/17/24 17:15	500
1,1-Dichloroethane	<318	U	500	318	ug/L			05/17/24 17:15	500
1,1-Dichloroethene	<369	U	500	369	ug/L			05/17/24 17:15	500
1,2,3-Trichloropropane	<235	U	500	235	ug/L			05/17/24 17:15	500
1,2,4-Trimethylbenzene	<209	U	500	209	ug/L			05/17/24 17:15	500
1,2-Dibromo-3-Chloropropane	<336	U	2500	336	ug/L			05/17/24 17:15	500
1,2-Dibromoethane	<500	U	2500	500	ug/L			05/17/24 17:15	500

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-73**

**Lab Sample ID: 860-74062-3**

Date Collected: 05/10/24 09:07

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<186	U	500	186	ug/L			05/17/24 17:15	500
1,2-Dichloropropane	<278	U	2500	278	ug/L			05/17/24 17:15	500
1,3,5-Trimethylbenzene	<206	U	500	206	ug/L			05/17/24 17:15	500
1,3-Butadiene	<284	U	500	284	ug/L			05/17/24 17:15	500
2,2,4-Trimethylpentane	<250	U	2500	250	ug/L			05/17/24 17:15	500
2-Butanone (MEK)	<4140	U	25000	4140	ug/L			05/17/24 17:15	500
2-Hexanone (MBK)	<3720	U	25000	3720	ug/L			05/17/24 17:15	500
2-Propanol	<2610	U	5000	2610	ug/L			05/17/24 17:15	500
3-Chloropropene (Allyl Chloride)	<299	U	2500	299	ug/L			05/17/24 17:15	500
4-Methyl-2-pentanone	<3750	U	25000	3750	ug/L			05/17/24 17:15	500
Acetone	<1530	U	50000	1530	ug/L			05/17/24 17:15	500
Acetonitrile	<7300	U	50000	7300	ug/L			05/17/24 17:15	500
Acrolein	<5560	U	25000	5560	ug/L			05/17/24 17:15	500
Acrylonitrile	<7160	U	25000	7160	ug/L			05/17/24 17:15	500
alpha-Chlorotoluene	<1130	U	2500	1130	ug/L			05/17/24 17:15	500
<b>Benzene</b>	<b>48900</b>		500	230	ug/L			05/17/24 17:15	500
Bromodichloromethane	<276	U	500	276	ug/L			05/17/24 17:15	500
Bromoform	<317	U	2500	317	ug/L			05/17/24 17:15	500
Bromomethane	<710	U	2500	710	ug/L			05/17/24 17:15	500
Carbon disulfide	<825	U	2500	825	ug/L			05/17/24 17:15	500
Carbon tetrachloride	<448	U	2500	448	ug/L			05/17/24 17:15	500
Chlorobenzene	<228	U	500	228	ug/L			05/17/24 17:15	500
Chlorodibromomethane	<274	U	2500	274	ug/L			05/17/24 17:15	500
Chloroethane	<992	U	5000	992	ug/L			05/17/24 17:15	500
Chloroform	<232	U	500	232	ug/L			05/17/24 17:15	500
Chloromethane	<1020	U	5000	1020	ug/L			05/17/24 17:15	500
Chloroprene	<299	U	2500	299	ug/L			05/17/24 17:15	500
cis-1,2-Dichloroethene	<229	U	500	229	ug/L			05/17/24 17:15	500
cis-1,3-Dichloropropene	<534	U	2500	534	ug/L			05/17/24 17:15	500
Cumene (isopropylbenzene)	<296	U	500	296	ug/L			05/17/24 17:15	500
Cyclohexane	<643	U	2500	643	ug/L			05/17/24 17:15	500
Dibromomethane	<179	U	500	179	ug/L			05/17/24 17:15	500
Dichlorodifluoromethane	<393	U	500	393	ug/L			05/17/24 17:15	500
Ethyl methacrylate	<559	U	2500	559	ug/L			05/17/24 17:15	500
Ethylbenzene	<193	U	500	193	ug/L			05/17/24 17:15	500
Hexane	<259	U	2500	259	ug/L			05/17/24 17:15	500
Iodomethane	<3260	U	10000	3260	ug/L			05/17/24 17:15	500
Isobutanol	<8550	U	25000	8550	ug/L			05/17/24 17:15	500
Methacrylonitrile	<1360	U	5000	1360	ug/L			05/17/24 17:15	500
Methyl methacrylate	<1130	U	5000	1130	ug/L			05/17/24 17:15	500
Methyl tert-butyl ether	<696	U	2500	696	ug/L			05/17/24 17:15	500
Methylene Chloride	<863	U	2500	863	ug/L			05/17/24 17:15	500
Propionitrile	<1670	U	5000	1670	ug/L			05/17/24 17:15	500
Propylbenzene	<215	U	500	215	ug/L			05/17/24 17:15	500
Styrene	<310	U	500	310	ug/L			05/17/24 17:15	500
Tetrachloroethene	<328	U	500	328	ug/L			05/17/24 17:15	500
<b>Tetrahydrofuran</b>	<b>1040</b>	<b>J</b>	5000	917	ug/L			05/17/24 17:15	500
<b>Toluene</b>	<b>960</b>		500	238	ug/L			05/17/24 17:15	500
trans-1,2-Dichloroethene	<184	U	500	184	ug/L			05/17/24 17:15	500

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-73**

**Lab Sample ID: 860-74062-3**

Date Collected: 05/10/24 09:07

Matrix: Water

Date Received: 05/13/24 11:54

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<634	U	2500	634	ug/L			05/17/24 17:15	500
trans-1,4-Dichloro-2-butene	<675	U	5000	675	ug/L			05/17/24 17:15	500
Trichloroethene	<750	U	2500	750	ug/L			05/17/24 17:15	500
Trichlorofluoromethane	<280	U	500	280	ug/L			05/17/24 17:15	500
Vinyl acetate	<1070	U	10000	1070	ug/L			05/17/24 17:15	500
Vinyl chloride	<214	U	1000	214	ug/L			05/17/24 17:15	500
Xylenes, Total	<620	U	5000	620	ug/L			05/17/24 17:15	500
m,p-Xylenes	<0.620	U	5.00	0.620	mg/L			05/17/24 17:15	500
o-Xylene	<0.251	U	0.500	0.251	mg/L			05/17/24 17:15	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144					05/17/24 17:15	500
4-Bromofluorobenzene (Surr)	101		74 - 124					05/17/24 17:15	500
Dibromofluoromethane (Surr)	99		75 - 131					05/17/24 17:15	500
Toluene-d8 (Surr)	100		80 - 120					05/17/24 17:15	500

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>1,2-Dichlorobenzene</b>	<b>0.170</b>	<b>J</b>	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 17:46	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 17:46	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>2,4-Dimethylphenol</b>	<b>1.32</b>		0.571	0.192	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>1,4-Dioxane</b>	<b>7.21</b>		0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>2-Methylphenol</b>	<b>13.8</b>		0.571	0.105	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 17:46	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 17:46	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 17:46	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:46	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>4-Chloroaniline</b>	<b>0.0488</b>	<b>J</b>	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 17:46	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 17:46	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>Acenaphthene</b>	<b>0.127</b>	<b>J</b>	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 17:46	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 17:46	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 17:46	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 17:46	1
Benzo[a]anthracene	<0.0286	U **	0.0286	0.0286	ug/L		05/14/24 14:30	05/17/24 17:46	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 17:46	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 17:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-73**

**Lab Sample ID: 860-74062-3**

Date Collected: 05/10/24 09:07

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 17:46	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>Benzy alcohol</b>	<b>16.4</b>	<b>I B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 17:46	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 17:46	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 17:46	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 17:46	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 17:46	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 17:46	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>Dibenzofuran</b>	<b>3.40</b>		0.571	0.107	ug/L		05/14/24 14:30	05/17/24 17:46	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 17:46	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 17:46	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 17:46	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 17:46	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>Fluorene</b>	<b>0.185</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 17:46	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 17:46	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 17:46	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 17:46	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 17:46	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:46	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>Naphthalene</b>	<b>17.8</b>	<b>**</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 17:46	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 17:46	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 17:46	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 17:46	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 17:46	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>Acetophenone</b>	<b>7.46</b>		1.14	0.624	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 17:46	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 17:46	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 17:46	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 17:46	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 17:46	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 17:46	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 17:46	1
1-Naphthylamine	<0.149	U *- *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 17:46	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 17:46	1
<b>2-Chlorophenol</b>	<b>0.0896</b>	<b>J</b>	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Naphthylamine	<0.288	U *- *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 17:46	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 17:46	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 17:46	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 17:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-73**

**Lab Sample ID: 860-74062-3**

Date Collected: 05/10/24 09:07

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 17:46	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 17:46	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 17:46	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 17:46	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 17:46	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 17:46	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 17:46	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 17:46	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 17:46	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 17:46	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 17:46	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 17:46	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 17:46	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 17:46	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 17:46	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 17:46	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 17:46	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 17:46	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 17:46	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 17:46	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 17:46	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 17:46	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 17:46	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 17:46	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 17:46	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 17:46	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:46	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:46	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 17:46	1
p-Phenylene diamine	<0.500	U *- *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 17:46	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 17:46	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 17:46	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 17:46	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	207	S1+	35 - 130	05/14/24 14:30	05/17/24 17:46	1
2-Fluorobiphenyl	135	S1+	43 - 130	05/14/24 14:30	05/17/24 17:46	1
2-Fluorophenol (Surr)	125	S1+	19 - 120	05/14/24 14:30	05/17/24 17:46	1
Nitrobenzene-d5 (Surr)	168	S1+	37 - 133	05/14/24 14:30	05/17/24 17:46	1
Phenol-d5 (Surr)	101		8 - 124	05/14/24 14:30	05/17/24 17:46	1
p-Terphenyl-d14	150	S1+	47 - 130	05/14/24 14:30	05/17/24 17:46	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-73**

**Date Collected: 05/10/24 09:07**

**Date Received: 05/13/24 11:54**

**Lab Sample ID: 860-74062-3**

**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>3 &amp; 4 Methylphenol</b>	<b>32.2</b>		28.6	6.94	ug/L		05/14/24 14:30	05/20/24 15:05	50
<b>Phenol</b>	<b>212</b>		143	22.4	ug/L		05/14/24 14:30	05/20/24 15:05	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	656	S1+	35 - 130				05/14/24 14:30	05/20/24 15:05	50
2-Fluorobiphenyl	335	S1+	43 - 130				05/14/24 14:30	05/20/24 15:05	50
2-Fluorophenol (Surr)	1005	S1+	19 - 120				05/14/24 14:30	05/20/24 15:05	50
Nitrobenzene-d5 (Surr)	422	S1+	37 - 133				05/14/24 14:30	05/20/24 15:05	50
Phenol-d5 (Surr)	1009	S1+	8 - 124				05/14/24 14:30	05/20/24 15:05	50
p-Terphenyl-d14	365	S1+	47 - 130				05/14/24 14:30	05/20/24 15:05	50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diphenyl ether</b>	<b>6640</b>		286	45.5	ug/L		05/14/24 14:30	05/21/24 00:52	500
<b>1,1'-Biphenyl</b>	<b>2010</b>		286	49.1	ug/L		05/14/24 14:30	05/21/24 00:52	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	187	I S1+	35 - 130				05/14/24 14:30	05/21/24 00:52	500
2-Fluorobiphenyl	112		43 - 130				05/14/24 14:30	05/21/24 00:52	500
2-Fluorophenol (Surr)	201	S1+	19 - 120				05/14/24 14:30	05/21/24 00:52	500
Nitrobenzene-d5 (Surr)	92	I	37 - 133				05/14/24 14:30	05/21/24 00:52	500
Phenol-d5 (Surr)	344	I S1+	8 - 124				05/14/24 14:30	05/21/24 00:52	500
p-Terphenyl-d14	269	I S1+	47 - 130				05/14/24 14:30	05/21/24 00:52	500

**Client Sample ID: MW-50**

**Date Collected: 05/10/24 09:08**

**Date Received: 05/13/24 11:54**

**Lab Sample ID: 860-74062-4**

**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/17/24 12:58	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/17/24 12:58	1
1,1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/17/24 12:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/17/24 12:58	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/17/24 12:58	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/17/24 12:58	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/17/24 12:58	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/17/24 12:58	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/17/24 12:58	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/17/24 12:58	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/17/24 12:58	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/17/24 12:58	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/17/24 12:58	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/17/24 12:58	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/17/24 12:58	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/17/24 12:58	1
<b>2-Butanone (MEK)</b>	<b>8.64</b>	<b>J</b>	50.0	8.28	ug/L			05/17/24 12:58	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/17/24 12:58	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/17/24 12:58	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/17/24 12:58	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/17/24 12:58	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-50**

**Lab Sample ID: 860-74062-4**

**Date Collected: 05/10/24 09:08**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>221</b>		100	3.07	ug/L			05/17/24 12:58	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/17/24 12:58	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/17/24 12:58	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/17/24 12:58	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/17/24 12:58	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/17/24 12:58	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/17/24 12:58	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/17/24 12:58	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/17/24 12:58	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/17/24 12:58	1
<b>Chlorobenzene</b>	<b>2.09</b>		1.00	0.455	ug/L			05/17/24 12:58	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/17/24 12:58	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/17/24 12:58	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/17/24 12:58	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/17/24 12:58	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/17/24 12:58	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/17/24 12:58	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/17/24 12:58	1
<b>Cumene (isopropylbenzene)</b>	<b>0.878</b>	<b>J</b>	1.00	0.592	ug/L			05/17/24 12:58	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/17/24 12:58	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/17/24 12:58	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/17/24 12:58	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/17/24 12:58	1
<b>Ethylbenzene</b>	<b>1.07</b>		1.00	0.385	ug/L			05/17/24 12:58	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/17/24 12:58	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/17/24 12:58	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/17/24 12:58	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/17/24 12:58	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/17/24 12:58	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/17/24 12:58	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/17/24 12:58	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/17/24 12:58	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/17/24 12:58	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/17/24 12:58	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/17/24 12:58	1
<b>Toluene</b>	<b>123</b>		1.00	0.475	ug/L			05/17/24 12:58	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/17/24 12:58	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/17/24 12:58	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/17/24 12:58	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/17/24 12:58	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/17/24 12:58	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/17/24 12:58	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/17/24 12:58	1
<b>Xylenes, Total</b>	<b>1.99</b>	<b>J</b>	10.0	1.24	ug/L			05/17/24 12:58	1
<b>m,p-Xylenes</b>	<b>0.00139</b>	<b>J</b>	0.0100	0.00124	mg/L			05/17/24 12:58	1
<b>o-Xylene</b>	<b>0.000596</b>	<b>J</b>	0.00100	0.000502	mg/L			05/17/24 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		05/17/24 12:58	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/17/24 12:58	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-50**

**Lab Sample ID: 860-74062-4**

Date Collected: 05/10/24 09:08

Matrix: Water

Date Received: 05/13/24 11:54

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		75 - 131		05/17/24 12:58	1
Toluene-d8 (Surr)	100		80 - 120		05/17/24 12:58	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1590		50.0	23.0	ug/L			05/17/24 18:00	50
Tetrahydrofuran	1090		500	91.7	ug/L			05/17/24 18:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		05/17/24 18:00	50
4-Bromofluorobenzene (Surr)	101		74 - 124		05/17/24 18:00	50
Dibromofluoromethane (Surr)	110		75 - 131		05/17/24 18:00	50
Toluene-d8 (Surr)	103		80 - 120		05/17/24 18:00	50

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>1,2-Dichlorobenzene</b>	<b>0.217</b>	<b>J</b>	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 18:16	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 18:16	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>2,4-Dimethylphenol</b>	<b>0.312</b>	<b>J</b>	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>1,4-Dioxane</b>	<b>7.71</b>		0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>2-Methylphenol</b>	<b>0.748</b>		0.571	0.105	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>3 &amp; 4 Methylphenol</b>	<b>5.30</b>		0.571	0.139	ug/L		05/14/24 14:30	05/17/24 18:16	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 18:16	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 18:16	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Acenaphthylene</b>	<b>0.167</b>	<b>J</b>	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 18:16	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 18:16	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 18:16	1
Benzo[a]anthracene	<0.0286	U **	0.0286	0.0286	ug/L		05/14/24 14:30	05/17/24 18:16	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 18:16	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 18:16	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 18:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-50**

**Lab Sample ID: 860-74062-4**

**Date Collected: 05/10/24 09:08**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Benzyl alcohol</b>	<b>2.25</b>	<b>I B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 18:16	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 18:16	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 18:16	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 18:16	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 18:16	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 18:16	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Dibenzofuran</b>	<b>5.67</b>		0.571	0.107	ug/L		05/14/24 14:30	05/17/24 18:16	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 18:16	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 18:16	1
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Di-n-octyl phthalate</b>	<b>15.5</b>		1.14	0.269	ug/L		05/14/24 14:30	05/17/24 18:16	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Fluorene</b>	<b>0.228</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 18:16	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 18:16	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 18:16	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 18:16	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 18:16	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:16	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Naphthalene</b>	<b>22.8</b>	<b>**</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 18:16	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 18:16	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 18:16	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Phenol</b>	<b>8.14</b>		2.86	0.448	ug/L		05/14/24 14:30	05/17/24 18:16	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 18:16	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 18:16	1
<b>Acetophenone</b>	<b>1.11</b>	<b>J</b>	1.14	0.624	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 18:16	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 18:16	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 18:16	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 18:16	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 18:16	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 18:16	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 18:16	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 18:16	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 18:16	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 18:16	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 18:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-50**

**Lab Sample ID: 860-74062-4**

**Date Collected: 05/10/24 09:08**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 18:16	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 18:16	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 18:16	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 18:16	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 18:16	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 18:16	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 18:16	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 18:16	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 18:16	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 18:16	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 18:16	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 18:16	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 18:16	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 18:16	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 18:16	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 18:16	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 18:16	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 18:16	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 18:16	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 18:16	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 18:16	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 18:16	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 18:16	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 18:16	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 18:16	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 18:16	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:16	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:16	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 18:16	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 18:16	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:16	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 18:16	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 18:16	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	173	S1+	35 - 130	05/14/24 14:30	05/17/24 18:16	1
2-Fluorobiphenyl	123		43 - 130	05/14/24 14:30	05/17/24 18:16	1
2-Fluorophenol (Surr)	118		19 - 120	05/14/24 14:30	05/17/24 18:16	1
Nitrobenzene-d5 (Surr)	153	S1+	37 - 133	05/14/24 14:30	05/17/24 18:16	1
Phenol-d5 (Surr)	88		8 - 124	05/14/24 14:30	05/17/24 18:16	1
p-Terphenyl-d14	133	S1+	47 - 130	05/14/24 14:30	05/17/24 18:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-50**

**Lab Sample ID: 860-74062-4**

Date Collected: 05/10/24 09:08

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	11600		571	91.0	ug/L		05/14/24 14:30	05/21/24 01:21	1000
1,1'-Biphenyl	3570		571	98.1	ug/L		05/14/24 14:30	05/21/24 01:21	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130				05/14/24 14:30	05/21/24 01:21	1000
2-Fluorobiphenyl	53		43 - 130				05/14/24 14:30	05/21/24 01:21	1000
2-Fluorophenol (Surr)	169	S1+	19 - 120				05/14/24 14:30	05/21/24 01:21	1000
Nitrobenzene-d5 (Surr)	0	S1-	37 - 133				05/14/24 14:30	05/21/24 01:21	1000
Phenol-d5 (Surr)	0	S1-	8 - 124				05/14/24 14:30	05/21/24 01:21	1000
p-Terphenyl-d14	170	S1+	47 - 130				05/14/24 14:30	05/21/24 01:21	1000

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/17/24 13:18	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/17/24 13:18	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/17/24 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/17/24 13:18	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/17/24 13:18	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/17/24 13:18	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/17/24 13:18	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/17/24 13:18	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/17/24 13:18	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/17/24 13:18	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/17/24 13:18	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/17/24 13:18	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/17/24 13:18	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/17/24 13:18	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/17/24 13:18	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/17/24 13:18	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/17/24 13:18	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/17/24 13:18	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/17/24 13:18	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/17/24 13:18	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/17/24 13:18	1
Acetone	194		100	3.07	ug/L			05/17/24 13:18	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/17/24 13:18	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/17/24 13:18	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/17/24 13:18	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/17/24 13:18	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/17/24 13:18	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/17/24 13:18	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/17/24 13:18	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/17/24 13:18	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/17/24 13:18	1
Chlorobenzene	2.02		1.00	0.455	ug/L			05/17/24 13:18	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/17/24 13:18	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/17/24 13:18	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/17/24 13:18	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/17/24 13:18	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/17/24 13:18	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/17/24 13:18	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/17/24 13:18	1
<b>Cumene (isopropylbenzene)</b>	<b>0.826</b>	<b>J</b>	1.00	0.592	ug/L			05/17/24 13:18	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/17/24 13:18	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/17/24 13:18	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/17/24 13:18	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/17/24 13:18	1
<b>Ethylbenzene</b>	<b>1.05</b>		1.00	0.385	ug/L			05/17/24 13:18	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/17/24 13:18	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/17/24 13:18	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/17/24 13:18	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/17/24 13:18	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/17/24 13:18	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/17/24 13:18	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/17/24 13:18	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/17/24 13:18	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/17/24 13:18	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/17/24 13:18	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/17/24 13:18	1
<b>Toluene</b>	<b>126</b>		1.00	0.475	ug/L			05/17/24 13:18	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/17/24 13:18	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/17/24 13:18	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/17/24 13:18	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/17/24 13:18	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/17/24 13:18	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/17/24 13:18	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/17/24 13:18	1
<b>Xylenes, Total</b>	<b>2.16</b>	<b>J</b>	10.0	1.24	ug/L			05/17/24 13:18	1
<b>m,p-Xylenes</b>	<b>0.00149</b>	<b>J</b>	0.0100	0.00124	mg/L			05/17/24 13:18	1
<b>o-Xylene</b>	<b>0.000667</b>	<b>J</b>	0.00100	0.000502	mg/L			05/17/24 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		05/17/24 13:18	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/17/24 13:18	1
Dibromofluoromethane (Surr)	98		75 - 131		05/17/24 13:18	1
Toluene-d8 (Surr)	99		80 - 120		05/17/24 13:18	1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1620</b>		50.0	23.0	ug/L			05/17/24 18:19	50
<b>Tetrahydrofuran</b>	<b>1050</b>		500	91.7	ug/L			05/17/24 18:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		05/17/24 18:19	50
4-Bromofluorobenzene (Surr)	103		74 - 124		05/17/24 18:19	50
Dibromofluoromethane (Surr)	110		75 - 131		05/17/24 18:19	50

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		05/17/24 18:19	50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>1,2-Dichlorobenzene</b>	<b>0.206</b>	<b>J</b>	0.571	0.0941	ug/L		05/14/24 14:30	05/17/24 18:45	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 18:45	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,4,5-Trichlorophenol	<0.143	U **	0.571	0.143	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,4,6-Trichlorophenol	<0.231	U **	0.571	0.231	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,4-Dichlorophenol	<0.140	U **	0.571	0.140	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>2,4-Dimethylphenol</b>	<b>0.352</b>	<b>J</b>	0.571	0.192	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>1,4-Dioxane</b>	<b>7.27</b>		0.571	0.0890	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,4-Dinitrotoluene	<0.205	U **	0.571	0.205	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,6-Dinitrotoluene	<0.116	U **	0.571	0.116	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Chloronaphthalene	<0.378	U **	0.571	0.378	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>2-Methylphenol</b>	<b>0.777</b>		0.571	0.105	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Nitroaniline	<0.149	U **	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Nitrophenol	<0.136	U **	0.571	0.136	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>3 &amp; 4 Methylphenol</b>	<b>5.41</b>		0.571	0.139	ug/L		05/14/24 14:30	05/17/24 18:45	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/17/24 18:45	1
4,6-Dinitro-2-methylphenol	<0.201	U **	1.14	0.201	ug/L		05/14/24 14:30	05/17/24 18:45	1
4-Bromophenyl phenyl ether	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:45	1
4-Chloro-3-methylphenol	<0.104	U **	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>4-Chloroaniline</b>	<b>0.0413</b>	<b>J</b>	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 18:45	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/17/24 18:45	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/17/24 18:45	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Acenaphthylene</b>	<b>0.175</b>	<b>J</b>	0.571	0.0996	ug/L		05/14/24 14:30	05/17/24 18:45	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/17/24 18:45	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Benzo[a]anthracene</b>	<b>0.0230</b>	<b>J B **</b>	0.0286	0.00953	ug/L		05/14/24 14:30	05/17/24 18:45	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/17/24 18:45	1
Benzo[b]fluoranthene	<0.0664	U **	0.571	0.0664	ug/L		05/14/24 14:30	05/17/24 18:45	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/17/24 18:45	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Benzyl alcohol</b>	<b>2.62</b>	<b>B</b>	1.14	0.600	ug/L		05/14/24 14:30	05/17/24 18:45	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/17/24 18:45	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/17/24 18:45	1
Bis(2-ethylhexyl) phthalate	<0.900	U **	1.14	0.900	ug/L		05/14/24 14:30	05/17/24 18:45	1
Butyl benzyl phthalate	<0.500	U **	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 18:45	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/17/24 18:45	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Dibenzofuran</b>	<b>5.69</b>		0.571	0.107	ug/L		05/14/24 14:30	05/17/24 18:45	1
Diethyl phthalate	<0.155	U **	1.14	0.155	ug/L		05/14/24 14:30	05/17/24 18:45	1
Dimethyl phthalate	<0.108	U **	1.14	0.108	ug/L		05/14/24 14:30	05/17/24 18:45	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.765	U **	1.14	0.765	ug/L		05/14/24 14:30	05/17/24 18:45	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/17/24 18:45	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Fluorene</b>	<b>0.231</b>	<b>J</b>	0.571	0.0948	ug/L		05/14/24 14:30	05/17/24 18:45	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/17/24 18:45	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/17/24 18:45	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/17/24 18:45	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/17/24 18:45	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:45	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Naphthalene</b>	<b>22.2</b>	<b>**</b>	0.571	0.0944	ug/L		05/14/24 14:30	05/17/24 18:45	1
Nitrobenzene	<0.0736	U **	0.571	0.0736	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/17/24 18:45	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/17/24 18:45	1
Phenanthrene	<0.134	U **	0.571	0.134	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Phenol</b>	<b>6.58</b>		2.86	0.448	ug/L		05/14/24 14:30	05/17/24 18:45	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/17/24 18:45	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/17/24 18:45	1
<b>Acetophenone</b>	<b>1.16</b>		1.14	0.624	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosopiperidine	<0.467	U **	1.14	0.467	ug/L		05/14/24 14:30	05/17/24 18:45	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/17/24 18:45	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/17/24 18:45	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/17/24 18:45	1
1,3,5-Trinitrobenzene	<0.119	U **	0.571	0.119	ug/L		05/14/24 14:30	05/17/24 18:45	1
1,3-Dinitrobenzene	<0.0773	U **	0.571	0.0773	ug/L		05/14/24 14:30	05/17/24 18:45	1
1,4-Naphthoquinone	<0.314	U **	0.571	0.314	ug/L		05/14/24 14:30	05/17/24 18:45	1
1-Naphthylamine	<0.149	U * - *1	0.571	0.149	ug/L		05/14/24 14:30	05/17/24 18:45	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Naphthylamine	<0.288	U * - *1	0.571	0.288	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/17/24 18:45	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/17/24 18:45	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/17/24 18:45	1
3,3'-Dimethylbenzidine	<0.142	U * - *1	0.571	0.142	ug/L		05/14/24 14:30	05/17/24 18:45	1
3-Methylcholanthrene	<0.104	U * -	0.571	0.104	ug/L		05/14/24 14:30	05/17/24 18:45	1
4-Nitroquinoline-1-oxide	<0.730	U **	1.14	0.730	ug/L		05/14/24 14:30	05/17/24 18:45	1
7,12-Dimethylbenz(a)anthracene	<0.241	U **	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 18:45	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U * -	5.71	3.67	ug/L		05/14/24 14:30	05/17/24 18:45	1
Aramite Peak 1	<0.0785	U **	0.571	0.0785	ug/L		05/14/24 14:30	05/17/24 18:45	1
Aramite Peak 2	<0.0954	U **	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 18:45	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/17/24 18:45	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 18:45	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/17/24 18:45	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/17/24 18:45	1
Dimethoate	<0.122	U **	0.571	0.122	ug/L		05/14/24 14:30	05/17/24 18:45	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/14/24 14:30	05/17/24 18:45	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/17/24 18:45	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/17/24 18:45	1
Ethyl Parathion	<0.0502	U **	0.229	0.0502	ug/L		05/14/24 14:30	05/17/24 18:45	1
Famphur	<0.151	U **	1.14	0.151	ug/L		05/14/24 14:30	05/17/24 18:45	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/17/24 18:45	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 18:45	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/17/24 18:45	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/17/24 18:45	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/17/24 18:45	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/17/24 18:45	1
Methyl parathion	<0.319	U **	0.571	0.319	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosodi-n-butylamine	<0.516	U **	1.14	0.516	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/17/24 18:45	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/17/24 18:45	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/17/24 18:45	1
p-Dimethylamino azobenzene	<0.0238	U **	0.571	0.0238	ug/L		05/14/24 14:30	05/17/24 18:45	1
Pentachloronitrobenzene	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:45	1
Phenacetin	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:45	1
Phorate	<0.221	U **	0.571	0.221	ug/L		05/14/24 14:30	05/17/24 18:45	1
p-Phenylene diamine	<0.500	U * - *1	1.14	0.500	ug/L		05/14/24 14:30	05/17/24 18:45	1
Pronamide	<0.100	U **	0.571	0.100	ug/L		05/14/24 14:30	05/17/24 18:45	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/17/24 18:45	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/17/24 18:45	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/17/24 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	171	S1+	35 - 130	05/14/24 14:30	05/17/24 18:45	1
2-Fluorobiphenyl	118		43 - 130	05/14/24 14:30	05/17/24 18:45	1
2-Fluorophenol (Surr)	109		19 - 120	05/14/24 14:30	05/17/24 18:45	1
Nitrobenzene-d5 (Surr)	160	S1+	37 - 133	05/14/24 14:30	05/17/24 18:45	1
Phenol-d5 (Surr)	80		8 - 124	05/14/24 14:30	05/17/24 18:45	1
p-Terphenyl-d14	120		47 - 130	05/14/24 14:30	05/17/24 18:45	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	11100		571	91.0	ug/L		05/14/24 14:30	05/21/24 01:50	1000
1,1'-Biphenyl	3330		571	98.1	ug/L		05/14/24 14:30	05/21/24 01:50	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/14/24 14:30	05/21/24 01:50	1000
2-Fluorobiphenyl	0	S1-	43 - 130	05/14/24 14:30	05/21/24 01:50	1000
2-Fluorophenol (Surr)	204	S1+	19 - 120	05/14/24 14:30	05/21/24 01:50	1000
Nitrobenzene-d5 (Surr)	0	S1-	37 - 133	05/14/24 14:30	05/21/24 01:50	1000
Phenol-d5 (Surr)	309	S1+	8 - 124	05/14/24 14:30	05/21/24 01:50	1000
p-Terphenyl-d14	0	S1-	47 - 130	05/14/24 14:30	05/21/24 01:50	1000

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

**Date Collected: 05/10/24 00:00**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3.83	U H	28.6	3.83	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,2-Dichlorobenzene	<4.70	U H	28.6	4.70	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,3-Dichlorobenzene	<5.08	U H	28.6	5.08	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,4-Dichlorobenzene	<3.90	U H	28.6	3.90	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,2'-oxybis[1-chloropropane]	<71.4	U H	143	71.4	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,4,5-Trichlorophenol	<7.16	U H	28.6	7.16	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,4,6-Trichlorophenol	<11.5	U H	28.6	11.5	ug/L		05/21/24 06:28	05/22/24 08:51	50
<b>2,4-Dichlorophenol</b>	<b>9.41</b>	<b>J H</b>	28.6	7.00	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,4-Dimethylphenol	<9.61	U H	28.6	9.61	ug/L		05/21/24 06:28	05/22/24 08:51	50
<b>1,4-Dioxane</b>	<b>8.53</b>	<b>J H</b>	28.6	4.45	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,4-Dinitrophenol	<5.21	U H	143	5.21	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,4-Dinitrotoluene	<10.2	U H	28.6	10.2	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,6-Dinitrotoluene	<5.81	U H	28.6	5.81	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Chloronaphthalene	<18.9	U H	28.6	18.9	ug/L		05/21/24 06:28	05/22/24 08:51	50
<b>2-Methylnaphthalene</b>	<b>3.27</b>	<b>J H I</b>	28.6	3.01	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Methylphenol	<5.24	U H	28.6	5.24	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Nitroaniline	<7.45	U H	28.6	7.45	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Nitrophenol	<6.80	U H	28.6	6.80	ug/L		05/21/24 06:28	05/22/24 08:51	50
3 & 4 Methylphenol	<6.94	U H	28.6	6.94	ug/L		05/21/24 06:28	05/22/24 08:51	50
3-Nitroaniline	<4.26	U H	28.6	4.26	ug/L		05/21/24 06:28	05/22/24 08:51	50
4,6-Dinitro-2-methylphenol	<10.1	U H	57.1	10.1	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Bromophenyl phenyl ether	<5.01	U H	28.6	5.01	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Chloro-3-methylphenol	<5.18	U H	28.6	5.18	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Chloroaniline	<1.93	U H	28.6	1.93	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Chlorophenyl phenyl ether	<6.52	U H	28.6	6.52	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Nitroaniline	<5.43	U H *	28.6	5.43	ug/L		05/21/24 06:28	05/22/24 08:51	50
Acenaphthene	<5.37	U H	28.6	5.37	ug/L		05/21/24 06:28	05/22/24 08:51	50
Acenaphthylene	<4.98	U H	28.6	4.98	ug/L		05/21/24 06:28	05/22/24 08:51	50
Aniline	<2.90	U H *1	28.6	2.90	ug/L		05/21/24 06:28	05/22/24 08:51	50
Anthracene	<4.69	U H	28.6	4.69	ug/L		05/21/24 06:28	05/22/24 08:51	50
Benzo[a]anthracene	<0.477	U H	1.43	0.477	ug/L		05/21/24 06:28	05/22/24 08:51	50
Benzo[a]pyrene	<0.500	U H	2.86	0.500	ug/L		05/21/24 06:28	05/22/24 08:51	50
Benzo[b]fluoranthene	<3.32	U H	28.6	3.32	ug/L		05/21/24 06:28	05/22/24 08:51	50
Benzo[g,h,i]perylene	<1.73	U H	28.6	1.73	ug/L		05/21/24 06:28	05/22/24 08:51	50
Benzo[k]fluoranthene	<2.36	U H	28.6	2.36	ug/L		05/21/24 06:28	05/22/24 08:51	50
Benzyl alcohol	<30.0	U H	57.1	30.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Bis(2-chloroethoxy)methane	<4.87	U H	28.6	4.87	ug/L		05/21/24 06:28	05/22/24 08:51	50
Bis(2-chloroethyl)ether	<10.7	U H	28.6	10.7	ug/L		05/21/24 06:28	05/22/24 08:51	50
Bis(2-ethylhexyl) phthalate	<45.0	U H	57.1	45.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Butyl benzyl phthalate	<25.0	U H	57.1	25.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Chrysene	<4.08	U H	28.6	4.08	ug/L		05/21/24 06:28	05/22/24 08:51	50
Dibenz(a,h)anthracene	<2.54	U H	5.71	2.54	ug/L		05/21/24 06:28	05/22/24 08:51	50
<b>Dibenzofuran</b>	<b>6.06</b>	<b>J H</b>	28.6	5.33	ug/L		05/21/24 06:28	05/22/24 08:51	50
Diethyl phthalate	<7.74	U H	57.1	7.74	ug/L		05/21/24 06:28	05/22/24 08:51	50
Dimethyl phthalate	<5.41	U H	57.1	5.41	ug/L		05/21/24 06:28	05/22/24 08:51	50
Di-n-butyl phthalate	<38.3	U H	57.1	38.3	ug/L		05/21/24 06:28	05/22/24 08:51	50
Di-n-octyl phthalate	<13.5	U H	57.1	13.5	ug/L		05/21/24 06:28	05/22/24 08:51	50
Fluoranthene	<4.42	U H	28.6	4.42	ug/L		05/21/24 06:28	05/22/24 08:51	50
Fluorene	<4.74	U H	28.6	4.74	ug/L		05/21/24 06:28	05/22/24 08:51	50

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<4.87	U H	28.6	4.87	ug/L		05/21/24 06:28	05/22/24 08:51	50
Hexachlorobutadiene	<5.13	U H	28.6	5.13	ug/L		05/21/24 06:28	05/22/24 08:51	50
Hexachlorocyclopentadiene	<2.56	U H	28.6	2.56	ug/L		05/21/24 06:28	05/22/24 08:51	50
Hexachloroethane	<5.09	U H	28.6	5.09	ug/L		05/21/24 06:28	05/22/24 08:51	50
Indeno[1,2,3-cd]pyrene	<5.00	U H	28.6	5.00	ug/L		05/21/24 06:28	05/22/24 08:51	50
Isophorone	<5.33	U H	28.6	5.33	ug/L		05/21/24 06:28	05/22/24 08:51	50
<b>Naphthalene</b>	<b>23.7</b>	<b>J H</b>	28.6	4.72	ug/L		05/21/24 06:28	05/22/24 08:51	50
Nitrobenzene	<3.68	U H	28.6	3.68	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosodi-n-propylamine	<5.93	U H	28.6	5.93	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosodiphenylamine	<7.23	U H	28.6	7.23	ug/L		05/21/24 06:28	05/22/24 08:51	50
Pentachlorophenol	<51.9	U H	57.1	51.9	ug/L		05/21/24 06:28	05/22/24 08:51	50
Phenanthrene	<6.70	U H	28.6	6.70	ug/L		05/21/24 06:28	05/22/24 08:51	50
Phenol	<22.4	U H	143	22.4	ug/L		05/21/24 06:28	05/22/24 08:51	50
Pyrene	<4.24	U H	28.6	4.24	ug/L		05/21/24 06:28	05/22/24 08:51	50
Pyridine	<71.9	U H	143	71.9	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitro-o-toluidine	<26.0	U H *	57.1	26.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,3,4,6-Tetrachlorophenol	<10.5	U H	28.6	10.5	ug/L		05/21/24 06:28	05/22/24 08:51	50
Acetophenone	<31.2	U H	57.1	31.2	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosopiperidine	<23.4	U H	57.1	23.4	ug/L		05/21/24 06:28	05/22/24 08:51	50
Pentachlorobenzene	<13.3	U H	28.6	13.3	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Aminobiphenyl	<19.7	U H * - *1	28.6	19.7	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,2,4,5-Tetrachlorobenzene	<4.79	U H *	28.6	4.79	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,3,5-Trinitrobenzene	<5.94	U H	28.6	5.94	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,3-Dinitrobenzene	<3.86	U H	28.6	3.86	ug/L		05/21/24 06:28	05/22/24 08:51	50
1,4-Naphthoquinone	<15.7	U H	28.6	15.7	ug/L		05/21/24 06:28	05/22/24 08:51	50
1-Naphthylamine	<7.43	U H * - *1	28.6	7.43	ug/L		05/21/24 06:28	05/22/24 08:51	50
2,6-Dichlorophenol	<5.91	U H	28.6	5.91	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Acetylaminofluorene	<63.2	U H	143	63.2	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Chlorophenol	<3.78	U H	28.6	3.78	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Naphthylamine	<14.4	U H * - *1	28.6	14.4	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Picoline	<6.13	U H	28.6	6.13	ug/L		05/21/24 06:28	05/22/24 08:51	50
2-Toluidine	<15.3	U H	28.6	15.3	ug/L		05/21/24 06:28	05/22/24 08:51	50
3,3'-Dichlorobenzidine	<9.16	U H	28.6	9.16	ug/L		05/21/24 06:28	05/22/24 08:51	50
3,3'-Dimethylbenzidine	<7.09	U H * - *1	28.6	7.09	ug/L		05/21/24 06:28	05/22/24 08:51	50
3-Methylcholanthrene	<5.22	U H *	28.6	5.22	ug/L		05/21/24 06:28	05/22/24 08:51	50
4-Nitroquinoline-1-oxide	<36.5	U H	57.1	36.5	ug/L		05/21/24 06:28	05/22/24 08:51	50
7,12-Dimethylbenz(a)anthracene	<12.1	U H	28.6	12.1	ug/L		05/21/24 06:28	05/22/24 08:51	50
alpha,alpha-Dimethyl phenethylamine	<184	U H *	286	184	ug/L		05/21/24 06:28	05/22/24 08:51	50
Aramite Peak 1	<3.93	U H	28.6	3.93	ug/L		05/21/24 06:28	05/22/24 08:51	50
Aramite Peak 2	<4.77	U H	28.6	4.77	ug/L		05/21/24 06:28	05/22/24 08:51	50
Aramite, Total	<4.77	U H	28.6	4.77	ug/L		05/21/24 06:28	05/22/24 08:51	50
Diallate	<4.17	U H	28.6	4.17	ug/L		05/21/24 06:28	05/22/24 08:51	50
Diallate Peak 1	<4.17	U H	28.6	4.17	ug/L		05/21/24 06:28	05/22/24 08:51	50
Diallate Peak 2	<1.93	U H	28.6	1.93	ug/L		05/21/24 06:28	05/22/24 08:51	50
Dimethoate	<6.08	U H	28.6	6.08	ug/L		05/21/24 06:28	05/22/24 08:51	50
Dinoseb	<28.5	U * + H	28.6	28.5	ug/L		05/21/24 06:28	05/22/24 08:51	50
Disulfoton	<10.1	U H	28.6	10.1	ug/L		05/21/24 06:28	05/22/24 08:51	50
Ethyl methanesulfonate	<11.3	U H	28.6	11.3	ug/L		05/21/24 06:28	05/22/24 08:51	50
Ethyl Parathion	<2.51	U H	11.4	2.51	ug/L		05/21/24 06:28	05/22/24 08:51	50

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

Date Collected: 05/10/24 00:00

Matrix: Water

Date Received: 05/13/24 11:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<7.54	U H	57.1	7.54	ug/L		05/21/24 06:28	05/22/24 08:51	50
Hexachloropropene	<15.0	U H *	28.6	15.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Isosafrole	<12.0	U H	28.6	12.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Isosafrole Peak 1	<2.32	U H	28.6	2.32	ug/L		05/21/24 06:28	05/22/24 08:51	50
Isosafrole Peak 2	<12.0	U H *	28.6	12.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Methapyrilene	<50.0	U H	114	50.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Methyl methanesulfonate	<5.99	U H	28.6	5.99	ug/L		05/21/24 06:28	05/22/24 08:51	50
Methyl parathion	<16.0	U H	28.6	16.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosodiethylamine	<26.9	U H	57.1	26.9	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosodimethylamine	<5.00	U H *	28.6	5.00	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosodi-n-butylamine	<25.8	U H	57.1	25.8	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosomethylethylamine	<14.7	U H	28.6	14.7	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosomorpholine	<11.0	U H	28.6	11.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
N-Nitrosopyrrolidine	<13.4	U H	28.6	13.4	ug/L		05/21/24 06:28	05/22/24 08:51	50
o,o',o"-Triethylphosphorothioate	<6.91	U H	28.6	6.91	ug/L		05/21/24 06:28	05/22/24 08:51	50
p-Dimethylamino azobenzene	<1.19	U H	28.6	1.19	ug/L		05/21/24 06:28	05/22/24 08:51	50
Pentachloronitrobenzene	<5.00	U H	28.6	5.00	ug/L		05/21/24 06:28	05/22/24 08:51	50
Phenacetin	<5.00	U H	28.6	5.00	ug/L		05/21/24 06:28	05/22/24 08:51	50
Phorate	<11.1	U H	28.6	11.1	ug/L		05/21/24 06:28	05/22/24 08:51	50
p-Phenylene diamine	<25.0	U H *	57.1	25.0	ug/L		05/21/24 06:28	05/22/24 08:51	50
Pronamide	<5.00	U H	28.6	5.00	ug/L		05/21/24 06:28	05/22/24 08:51	50
Safrole, Total	<2.86	U H	28.6	2.86	ug/L		05/21/24 06:28	05/22/24 08:51	50
Sulfotepp	<7.33	U H	28.6	7.33	ug/L		05/21/24 06:28	05/22/24 08:51	50
Thionazin	<10.4	U H	57.1	10.4	ug/L		05/21/24 06:28	05/22/24 08:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	178	S1+	35 - 130	05/21/24 06:28	05/22/24 08:51	50
2-Fluorobiphenyl	99		43 - 130	05/21/24 06:28	05/22/24 08:51	50
2-Fluorophenol (Surr)	95		19 - 120	05/21/24 06:28	05/22/24 08:51	50
Nitrobenzene-d5 (Surr)	114		37 - 133	05/21/24 06:28	05/22/24 08:51	50
Phenol-d5 (Surr)	92	I	8 - 124	05/21/24 06:28	05/22/24 08:51	50
p-Terphenyl-d14	110		47 - 130	05/21/24 06:28	05/22/24 08:51	50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	13200	H	571	91.0	ug/L		05/21/24 06:28	05/22/24 09:20	1000
1,1'-Biphenyl	4320	H	571	98.1	ug/L		05/21/24 06:28	05/22/24 09:20	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/21/24 06:28	05/22/24 09:20	1000
2-Fluorobiphenyl	0	S1-	43 - 130	05/21/24 06:28	05/22/24 09:20	1000
2-Fluorophenol (Surr)	143	S1+	19 - 120	05/21/24 06:28	05/22/24 09:20	1000
Nitrobenzene-d5 (Surr)	149	I S1+	37 - 133	05/21/24 06:28	05/22/24 09:20	1000
Phenol-d5 (Surr)	352	I S1+	8 - 124	05/21/24 06:28	05/22/24 09:20	1000
p-Terphenyl-d14	128		47 - 130	05/21/24 06:28	05/22/24 09:20	1000



# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-74062-1	MW-54	104	99	99	99
860-74062-1 MS	MW-54	98	100	101	99
860-74062-2	MW-75	102	100	101	100
860-74062-3	MW-73	105	101	99	100
860-74062-4	MW-50	107	97	98	100
860-74062-4 - DL	MW-50	111	101	110	103
860-74062-5	DUPE-03	105	100	98	99
860-74062-5 - DL	DUPE-03	112	103	110	103
860-74340-E-2 MS	Matrix Spike	81	97	91	97
LCS 860-160794/3	Lab Control Sample	99	100	100	101
LCS 860-160822/1010	Lab Control Sample	85	99	92	97
LCSD 860-160794/4	Lab Control Sample Dup	98	102	102	101
LCSD 860-160822/11	Lab Control Sample Dup	84	98	92	98
MB 860-160794/9	Method Blank	101	102	99	100
MB 860-160822/16	Method Blank	92	105	102	102

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74062-1	MW-54	131 S1+	122	102	132	76	95
860-74062-2	MW-75	144 S1+	134 S1+	102	136 S1+	73	108
860-74062-3	MW-73	207 S1+	135 S1+	125 S1+	168 S1+	101	150 S1+
860-74062-3 - DL	MW-73	656 S1+	335 S1+	1005 S1+	422 S1+	1009 S1+	365 S1+
860-74062-3 - DL2	MW-73	187 I S1+	112	201 S1+	92 I	344 I S1+	269 I S1+
860-74062-4	MW-50	173 S1+	123	118	153 S1+	88	133 S1+
860-74062-4 - DL2	MW-50	0 S1-	53	169 S1+	0 S1-	0 S1-	170 S1+
860-74062-5	DUPE-03	171 S1+	118	109	160 S1+	80	120
860-74062-5 - DL2	DUPE-03	0 S1-	0 S1-	204 S1+	0 S1-	309 S1+	0 S1-
860-74062-5 - RE	DUPE-03	178 S1+	99	95	114	92 I	110
860-74062-5 - REDL	DUPE-03	0 S1-	0 S1-	143 S1+	149 I S1+	352 I S1+	128
LCS 860-160172/2-A	Lab Control Sample	153 S1+	130	93	206 S1+	59	124
LCS 860-160172/4-A	Lab Control Sample	149 S1+	126	83	185 S1+	56	124
LCS 860-161377/2-A	Lab Control Sample	126	111	81	126	49	103
LCS 860-161377/4-A	Lab Control Sample	116	105	81	132	58	95
LCSD 860-160172/3-A	Lab Control Sample Dup	162 S1+	136 S1+	98	211 S1+	61	121
LCSD 860-160172/5-A	Lab Control Sample Dup	163 S1+	147 S1+	84	204 S1+	57	127
LCSD 860-161377/3-A	Lab Control Sample Dup	114	112	80	134 S1+	48	97
LCSD 860-161377/5-A	Lab Control Sample Dup	123	114	86	135 S1+	60	86
MB 860-160172/1-A	Method Blank	134 S1+	117	78	171 S1+	33	121
MB 860-161377/1-A	Method Blank	124	110	76	134 S1+	44	98

### Surrogate Legend

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# Surrogate Summary

Client: Ashland LLC

Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

1

2

3

4

5

6

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15

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-160794/9**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/17/24 09:53	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/17/24 09:53	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/17/24 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/17/24 09:53	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/17/24 09:53	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/17/24 09:53	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/17/24 09:53	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/17/24 09:53	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/17/24 09:53	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/17/24 09:53	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/17/24 09:53	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/17/24 09:53	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/17/24 09:53	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/17/24 09:53	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/17/24 09:53	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/17/24 09:53	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/17/24 09:53	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/17/24 09:53	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/17/24 09:53	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/17/24 09:53	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/17/24 09:53	1
Acetone	<3.07	U	100	3.07	ug/L			05/17/24 09:53	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/17/24 09:53	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/17/24 09:53	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/17/24 09:53	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/17/24 09:53	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/17/24 09:53	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/17/24 09:53	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/17/24 09:53	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/17/24 09:53	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/17/24 09:53	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/17/24 09:53	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/17/24 09:53	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/17/24 09:53	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/17/24 09:53	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/17/24 09:53	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/17/24 09:53	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/17/24 09:53	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/17/24 09:53	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/17/24 09:53	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/17/24 09:53	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/17/24 09:53	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/17/24 09:53	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/17/24 09:53	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/17/24 09:53	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/17/24 09:53	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/17/24 09:53	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/17/24 09:53	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160794/9**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/17/24 09:53	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/17/24 09:53	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/17/24 09:53	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/17/24 09:53	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/17/24 09:53	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/17/24 09:53	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/17/24 09:53	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/17/24 09:53	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/17/24 09:53	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/17/24 09:53	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/17/24 09:53	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/17/24 09:53	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/17/24 09:53	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/17/24 09:53	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/17/24 09:53	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/17/24 09:53	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/17/24 09:53	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/17/24 09:53	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/17/24 09:53	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/17/24 09:53	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/17/24 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/17/24 09:53	1
4-Bromofluorobenzene (Surr)	102		74 - 124		05/17/24 09:53	1
Dibromofluoromethane (Surr)	99		75 - 131		05/17/24 09:53	1
Toluene-d8 (Surr)	100		80 - 120		05/17/24 09:53	1

**Lab Sample ID: LCS 860-160794/3**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.02		ug/L		104	72 - 125
1,1,1-Trichloroethane	50.0	51.83		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.43		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.24		ug/L		102	60 - 140
1,1,2-Trichloroethane	50.0	52.57		ug/L		105	75 - 130
1,1-Dichloroethane	50.0	51.42		ug/L		103	71 - 130
1,1-Dichloroethene	50.0	50.63		ug/L		101	50 - 150
1,2,3-Trichloropropane	50.0	49.76		ug/L		100	75 - 125
1,2,4-Trimethylbenzene	50.0	55.08		ug/L		110	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	55.63		ug/L		111	59 - 125
1,2-Dibromoethane	50.0	51.70		ug/L		103	73 - 125
1,2-Dichloroethane	50.0	49.99		ug/L		100	72 - 130
1,2-Dichloropropane	50.0	51.30		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	50.0	53.07		ug/L		106	60 - 140
1,3-Butadiene	50.0	50.67		ug/L		101	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160794/3**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	51.28		ug/L		103	70 - 130
2-Butanone (MEK)	250	264.1		ug/L		106	60 - 140
2-Hexanone (MBK)	250	274.3		ug/L		110	60 - 140
2-Propanol	500	503.1		ug/L		101	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	49.71		ug/L		99	70 - 130
4-Methyl-2-pentanone	250	269.3		ug/L		108	60 - 140
Acetone	250	268.6		ug/L		107	60 - 140
Acetonitrile	500	476.7		ug/L		95	60 - 140
Acrolein	250	248.6		ug/L		99	60 - 140
Acrylonitrile	500	515.5		ug/L		103	60 - 140
alpha-Chlorotoluene	50.0	60.87		ug/L		122	75 - 125
Benzene	50.0	51.66		ug/L		103	75 - 125
Bromodichloromethane	50.0	51.68		ug/L		103	75 - 125
Bromoform	50.0	52.58		ug/L		105	70 - 130
Bromomethane	50.0	50.82		ug/L		102	60 - 140
Carbon disulfide	50.0	47.59		ug/L		95	60 - 140
Carbon tetrachloride	50.0	49.87		ug/L		100	70 - 125
Chlorobenzene	50.0	51.22		ug/L		102	82 - 135
Chlorodibromomethane	50.0	51.60		ug/L		103	73 - 125
Chloroethane	50.0	52.92		ug/L		106	60 - 140
Chloroform	50.0	49.94		ug/L		100	70 - 121
Chloromethane	50.0	47.96		ug/L		96	60 - 140
Chloroprene	50.0	54.03		ug/L		108	70 - 130
cis-1,2-Dichloroethene	50.0	52.26		ug/L		105	75 - 125
cis-1,3-Dichloropropene	50.0	52.23		ug/L		104	74 - 125
Cumene (isopropylbenzene)	50.0	53.73		ug/L		107	75 - 125
Cyclohexane	50.0	50.34		ug/L		101	70 - 130
Dibromomethane	50.0	51.19		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	44.92		ug/L		90	50 - 150
Ethyl methacrylate	50.0	54.29		ug/L		109	70 - 130
Ethylbenzene	50.0	52.37		ug/L		105	75 - 125
Hexane	50.0	49.43		ug/L		99	72 - 125
Iodomethane	50.0	46.60		ug/L		93	75 - 125
Isobutanol	1240	1386		ug/L		112	60 - 140
Methacrylonitrile	500	523.3		ug/L		105	70 - 130
Methyl methacrylate	100	104.1		ug/L		104	70 - 130
Methyl tert-butyl ether	50.0	51.54		ug/L		103	65 - 135
Methylene Chloride	50.0	47.90		ug/L		96	71 - 125
Propionitrile	500	517.5		ug/L		103	70 - 130
Propylbenzene	50.0	53.58		ug/L		107	75 - 125
Styrene	50.0	53.96		ug/L		108	75 - 125
Tetrachloroethene	50.0	50.37		ug/L		101	71 - 125
Tetrahydrofuran	100	110.3		ug/L		110	75 - 125
Toluene	50.0	50.84		ug/L		102	75 - 130
trans-1,2-Dichloroethene	50.0	50.43		ug/L		101	75 - 125
trans-1,3-Dichloropropene	50.0	53.18		ug/L		106	66 - 125
trans-1,4-Dichloro-2-butene	50.0	51.69		ug/L		103	70 - 130
Trichloroethene	50.0	51.74		ug/L		103	75 - 135
Trichlorofluoromethane	50.0	52.12		ug/L		104	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160794/3**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	266.2		ug/L		106	60 - 140
Vinyl chloride	50.0	51.24		ug/L		102	60 - 140
Xylenes, Total	100	106.7		ug/L		107	75 - 125
m,p-Xylenes	0.0500	0.05324		mg/L		106	75 - 125
o-Xylene	0.0500	0.05350		mg/L		107	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: LCSD 860-160794/4**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	55.35		ug/L		111	72 - 125	6	25
1,1,1-Trichloroethane	50.0	55.61		ug/L		111	70 - 130	7	25
1,1,2,2-Tetrachloroethane	50.0	54.48		ug/L		109	74 - 125	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.88		ug/L		112	60 - 140	9	25
1,1,2-Trichloroethane	50.0	53.49		ug/L		107	75 - 130	2	25
1,1-Dichloroethane	50.0	53.80		ug/L		108	71 - 130	5	25
1,1-Dichloroethene	50.0	54.73		ug/L		109	50 - 150	8	25
1,2,3-Trichloropropane	50.0	54.84		ug/L		110	75 - 125	10	25
1,2,4-Trimethylbenzene	50.0	58.42		ug/L		117	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	59.10		ug/L		118	59 - 125	6	25
1,2-Dibromoethane	50.0	53.43		ug/L		107	73 - 125	3	25
1,2-Dichloroethane	50.0	51.38		ug/L		103	72 - 130	3	25
1,2-Dichloropropane	50.0	53.10		ug/L		106	74 - 125	3	25
1,3,5-Trimethylbenzene	50.0	57.00		ug/L		114	60 - 140	7	25
1,3-Butadiene	50.0	57.76		ug/L		116	60 - 150	13	25
2,2,4-Trimethylpentane	50.0	57.58		ug/L		115	70 - 130	12	25
2-Butanone (MEK)	250	282.6		ug/L		113	60 - 140	7	25
2-Hexanone (MBK)	250	284.2		ug/L		114	60 - 140	4	25
2-Propanol	500	581.4		ug/L		116	70 - 120	14	25
3-Chloropropene (Allyl Chloride)	50.0	53.97		ug/L		108	70 - 130	8	25
4-Methyl-2-pentanone	250	272.8		ug/L		109	60 - 140	1	25
Acetone	250	278.0		ug/L		111	60 - 140	3	25
Acetonitrile	500	520.4		ug/L		104	60 - 140	9	25
Acrolein	250	242.5		ug/L		97	60 - 140	2	25
Acrylonitrile	500	538.7		ug/L		108	60 - 140	4	25
alpha-Chlorotoluene	50.0	62.26		ug/L		125	75 - 125	2	25
Benzene	50.0	53.36		ug/L		107	75 - 125	3	25
Bromodichloromethane	50.0	54.43		ug/L		109	75 - 125	5	25
Bromoform	50.0	55.63		ug/L		111	70 - 130	6	25
Bromomethane	50.0	52.24		ug/L		104	60 - 140	3	25
Carbon disulfide	50.0	51.14		ug/L		102	60 - 140	7	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160794/4**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	55.26		ug/L		111	70 - 125	10	25
Chlorobenzene	50.0	53.61		ug/L		107	82 - 135	5	25
Chlorodibromomethane	50.0	53.25		ug/L		106	73 - 125	3	25
Chloroethane	50.0	56.16		ug/L		112	60 - 140	6	25
Chloroform	50.0	51.94		ug/L		104	70 - 121	4	25
Chloromethane	50.0	50.31		ug/L		101	60 - 140	5	25
Chloroprene	50.0	58.69		ug/L		117	70 - 130	8	25
cis-1,2-Dichloroethene	50.0	54.84		ug/L		110	75 - 125	5	25
cis-1,3-Dichloropropene	50.0	52.98		ug/L		106	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	57.96		ug/L		116	75 - 125	8	25
Cyclohexane	50.0	56.62		ug/L		113	70 - 130	12	25
Dibromomethane	50.0	52.08		ug/L		104	69 - 127	2	25
Dichlorodifluoromethane	50.0	49.85		ug/L		100	50 - 150	10	25
Ethyl methacrylate	50.0	56.84		ug/L		114	70 - 130	5	25
Ethylbenzene	50.0	55.88		ug/L		112	75 - 125	6	25
Hexane	50.0	55.09		ug/L		110	72 - 125	11	25
Iodomethane	50.0	49.35		ug/L		99	75 - 125	6	25
Isobutanol	1240	1488		ug/L		120	60 - 140	7	25
Methacrylonitrile	500	540.9		ug/L		108	70 - 130	3	25
Methyl methacrylate	100	107.5		ug/L		108	70 - 130	3	25
Methyl tert-butyl ether	50.0	53.86		ug/L		108	65 - 135	4	25
Methylene Chloride	50.0	49.46		ug/L		99	71 - 125	3	25
Propionitrile	500	543.0		ug/L		109	70 - 130	5	25
Propylbenzene	50.0	57.79		ug/L		116	75 - 125	8	25
Styrene	50.0	56.10		ug/L		112	75 - 125	4	25
Tetrachloroethene	50.0	55.52		ug/L		111	71 - 125	10	25
Tetrahydrofuran	100	115.6		ug/L		116	75 - 125	5	25
Toluene	50.0	54.11		ug/L		108	75 - 130	6	25
trans-1,2-Dichloroethene	50.0	52.66		ug/L		105	75 - 125	4	25
trans-1,3-Dichloropropene	50.0	55.24		ug/L		110	66 - 125	4	25
trans-1,4-Dichloro-2-butene	50.0	52.98		ug/L		106	70 - 130	2	25
Trichloroethene	50.0	54.28		ug/L		109	75 - 135	5	25
Trichlorofluoromethane	50.0	55.56		ug/L		111	60 - 140	6	25
Vinyl acetate	250	270.6		ug/L		108	60 - 140	2	25
Vinyl chloride	50.0	54.97		ug/L		110	60 - 140	7	25
Xylenes, Total	100	113.5		ug/L		114	75 - 125	6	25
m,p-Xylenes	0.0500	0.05708		mg/L		114	75 - 125	7	25
o-Xylene	0.0500	0.05642		mg/L		113	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	101		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74062-1 MS**  
**Matrix: Water**  
**Analysis Batch: 160794**

**Client Sample ID: MW-54**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	56.74		ug/L		113	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	59.87		ug/L		120	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	54.00		ug/L		108	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	65.43		ug/L		131	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	54.31		ug/L		109	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	57.99		ug/L		116	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	62.65		ug/L		125	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	54.09		ug/L		108	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	58.40		ug/L		117	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	56.10		ug/L		112	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	55.36		ug/L		111	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	53.70		ug/L		107	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	55.76		ug/L		112	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	57.03		ug/L		114	70 - 125
1,3-Butadiene	<0.568	U	50.0	54.38		ug/L		109	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	60.15		ug/L		120	70 - 130
2-Butanone (MEK)	<8.28	U	250	286.8		ug/L		115	60 - 140
2-Hexanone (MBK)	<7.45	U	250	275.6		ug/L		110	60 - 140
2-Propanol	<5.23	U	500	567.9		ug/L		114	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	56.57		ug/L		113	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	272.2		ug/L		109	60 - 140
Acetone	<3.07	U	250	292.4		ug/L		117	60 - 140
Acetonitrile	<14.6	U	500	556.3		ug/L		111	60 - 140
Acrolein	<11.1	U	250	255.0		ug/L		102	50 - 150
Acrylonitrile	<14.3	U	500	545.1		ug/L		109	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	62.58		ug/L		125	70 - 130
Benzene	<0.460	U	50.0	56.39		ug/L		113	66 - 142
Bromodichloromethane	<0.552	U	50.0	56.54		ug/L		113	75 - 125
Bromoform	<0.633	U	50.0	56.47		ug/L		113	75 - 125
Bromomethane	<1.42	U	50.0	51.68		ug/L		103	60 - 140
Carbon disulfide	<1.65	U	50.0	60.70		ug/L		121	60 - 140
Carbon tetrachloride	<0.896	U	50.0	59.17		ug/L		118	62 - 125
Chlorobenzene	<0.455	U	50.0	55.61		ug/L		111	60 - 133
Chlorodibromomethane	<0.547	U	50.0	54.56		ug/L		109	73 - 125
Chloroethane	<1.98	U	50.0	51.63		ug/L		103	60 - 140
Chloroform	<0.464	U	50.0	56.01		ug/L		112	70 - 130
Chloromethane	<2.04	U	50.0	47.48		ug/L		95	60 - 140
Chloroprene	<0.598	U	50.0	59.59		ug/L		119	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	58.41		ug/L		117	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	56.25		ug/L		113	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	58.83		ug/L		118	75 - 125
Cyclohexane	<1.29	U	50.0	60.96		ug/L		122	70 - 130
Dibromomethane	<0.357	U	50.0	53.82		ug/L		108	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	42.03		ug/L		84	70 - 130
Ethyl methacrylate	<1.12	U	50.0	57.76		ug/L		116	70 - 130
Ethylbenzene	<0.385	U	50.0	57.72		ug/L		115	75 - 125
Hexane	<0.517	U F1	50.0	64.25	F1	ug/L		129	72 - 125
Iodomethane	<6.52	U	50.0	55.58		ug/L		111	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74062-1 MS**

**Matrix: Water**

**Analysis Batch: 160794**

**Client Sample ID: MW-54**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
Isobutanol	<17.1	U	1240	1498		ug/L		121	60 - 140
Methacrylonitrile	<2.72	U	500	539.3		ug/L		108	70 - 130
Methyl methacrylate	<2.25	U	100	118.1		ug/L		118	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	55.88		ug/L		112	65 - 135
Methylene Chloride	<1.73	U	50.0	52.66		ug/L		105	75 - 125
Propionitrile	<3.34	U	500	571.7		ug/L		114	70 - 130
Propylbenzene	<0.429	U	50.0	57.68		ug/L		115	75 - 125
Styrene	<0.619	U	50.0	57.85		ug/L		116	75 - 125
Tetrachloroethene	<0.655	U	50.0	56.95		ug/L		114	71 - 125
Tetrahydrofuran	<1.83	U	100	112.2		ug/L		112	75 - 125
Toluene	<0.475	U	50.0	56.11		ug/L		112	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	58.97		ug/L		118	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	57.73		ug/L		115	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	54.03		ug/L		108	70 - 130
Trichloroethene	<1.50	U	50.0	56.52		ug/L		113	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	54.01		ug/L		108	60 - 140
Vinyl acetate	<2.14	U	250	291.0		ug/L		116	60 - 140
Vinyl chloride	<0.428	U	50.0	51.66		ug/L		103	60 - 140
Xylenes, Total	<1.24	U	100	116.5		ug/L		117	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05871		mg/L		117	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05782		mg/L		116	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: MB 860-160822/16**

**Matrix: Water**

**Analysis Batch: 160822**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/17/24 13:35	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/17/24 13:35	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/17/24 13:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/17/24 13:35	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/17/24 13:35	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/17/24 13:35	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/17/24 13:35	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/17/24 13:35	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/17/24 13:35	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/17/24 13:35	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/17/24 13:35	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/17/24 13:35	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/17/24 13:35	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/17/24 13:35	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/17/24 13:35	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160822/16**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/17/24 13:35	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/17/24 13:35	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/17/24 13:35	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/17/24 13:35	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/17/24 13:35	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/17/24 13:35	1
Acetone	<3.07	U	100	3.07	ug/L			05/17/24 13:35	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/17/24 13:35	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/17/24 13:35	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/17/24 13:35	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/17/24 13:35	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/17/24 13:35	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/17/24 13:35	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/17/24 13:35	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/17/24 13:35	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/17/24 13:35	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/17/24 13:35	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/17/24 13:35	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/17/24 13:35	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/17/24 13:35	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/17/24 13:35	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/17/24 13:35	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/17/24 13:35	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/17/24 13:35	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/17/24 13:35	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/17/24 13:35	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/17/24 13:35	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/17/24 13:35	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/17/24 13:35	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/17/24 13:35	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/17/24 13:35	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/17/24 13:35	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/17/24 13:35	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/17/24 13:35	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/17/24 13:35	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/17/24 13:35	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/17/24 13:35	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/17/24 13:35	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/17/24 13:35	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/17/24 13:35	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/17/24 13:35	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/17/24 13:35	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/17/24 13:35	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/17/24 13:35	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/17/24 13:35	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/17/24 13:35	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/17/24 13:35	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/17/24 13:35	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/17/24 13:35	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160822/16**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/17/24 13:35	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/17/24 13:35	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/17/24 13:35	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/17/24 13:35	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/17/24 13:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	92		63 - 144		05/17/24 13:35	1
4-Bromofluorobenzene (Surr)	105		74 - 124		05/17/24 13:35	1
Dibromofluoromethane (Surr)	102		75 - 131		05/17/24 13:35	1
Toluene-d8 (Surr)	102		80 - 120		05/17/24 13:35	1

**Lab Sample ID: LCS 860-160822/1010**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	53.55		ug/L		107	72 - 125
1,1,1-Trichloroethane	50.0	49.85		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.77		ug/L		104	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.31		ug/L		113	60 - 140
1,1,2-Trichloroethane	50.0	52.46		ug/L		105	75 - 130
1,1-Dichloroethane	50.0	49.83		ug/L		100	71 - 130
1,1-Dichloroethene	50.0	55.30		ug/L		111	50 - 150
1,2,3-Trichloropropane	50.0	52.03		ug/L		104	75 - 125
1,2,4-Trimethylbenzene	50.0	61.68		ug/L		123	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.72		ug/L		105	59 - 125
1,2-Dibromoethane	50.0	54.59		ug/L		109	73 - 125
1,2-Dichloroethane	50.0	45.74		ug/L		91	72 - 130
1,2-Dichloropropane	50.0	52.36		ug/L		105	74 - 125
1,3,5-Trimethylbenzene	50.0	59.78		ug/L		120	60 - 140
1,3-Butadiene	50.0	44.44		ug/L		89	60 - 150
2,2,4-Trimethylpentane	50.0	54.32		ug/L		109	70 - 130
2-Butanone (MEK)	250	265.7		ug/L		106	60 - 140
2-Hexanone (MBK)	250	259.3		ug/L		104	60 - 140
2-Propanol	500	<5.23	U *	ug/L		0	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	56.85		ug/L		114	70 - 130
4-Methyl-2-pentanone	250	251.3		ug/L		101	60 - 140
Acetone	250	250.0		ug/L		100	60 - 140
Acetonitrile	500	448.5		ug/L		90	60 - 140
Acrolein	250	260.3		ug/L		104	60 - 140
Acrylonitrile	500	479.4		ug/L		96	60 - 140
alpha-Chlorotoluene	50.0	56.56		ug/L		113	75 - 125
Benzene	50.0	51.93		ug/L		104	75 - 125
Bromodichloromethane	50.0	50.95		ug/L		102	75 - 125
Bromoform	50.0	50.09		ug/L		100	70 - 130
Bromomethane	50.0	36.22		ug/L		72	60 - 140
Carbon disulfide	50.0	52.77		ug/L		106	60 - 140

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160822/1010**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	51.27		ug/L		103	70 - 125
Chlorobenzene	50.0	54.08		ug/L		108	82 - 135
Chlorodibromomethane	50.0	55.33		ug/L		111	73 - 125
Chloroethane	50.0	<1.98	U *	ug/L		0	60 - 140
Chloroform	50.0	48.05		ug/L		96	70 - 121
Chloromethane	50.0	42.53		ug/L		85	60 - 140
Chloroprene	50.0	51.14		ug/L		102	70 - 130
cis-1,2-Dichloroethene	50.0	51.77		ug/L		104	75 - 125
cis-1,3-Dichloropropene	50.0	55.74		ug/L		111	74 - 125
Cumene (isopropylbenzene)	50.0	52.21		ug/L		104	75 - 125
Cyclohexane	50.0	55.91		ug/L		112	70 - 130
Dibromomethane	50.0	50.62		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	46.43		ug/L		93	50 - 150
Ethyl methacrylate	50.0	59.50		ug/L		119	70 - 130
Ethylbenzene	50.0	56.86		ug/L		114	75 - 125
Hexane	50.0	56.18		ug/L		112	72 - 125
Iodomethane	50.0	50.33		ug/L		101	75 - 125
Isobutanol	1240	<17.1	U *	ug/L		0	60 - 140
Methacrylonitrile	500	509.1		ug/L		102	70 - 130
Methyl methacrylate	100	112.6		ug/L		113	70 - 130
Methyl tert-butyl ether	50.0	55.26		ug/L		111	65 - 135
Methylene Chloride	50.0	53.27		ug/L		107	71 - 125
Propionitrile	500	469.1		ug/L		94	70 - 130
Propylbenzene	50.0	59.49		ug/L		119	75 - 125
Styrene	50.0	52.46		ug/L		105	75 - 125
Tetrachloroethene	50.0	56.37		ug/L		113	71 - 125
Tetrahydrofuran	100	95.44		ug/L		95	75 - 125
Toluene	50.0	54.22		ug/L		108	75 - 130
trans-1,2-Dichloroethene	50.0	55.26		ug/L		111	75 - 125
trans-1,3-Dichloropropene	50.0	56.01		ug/L		112	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.66		ug/L		101	70 - 130
Trichloroethene	50.0	53.37		ug/L		107	75 - 135
Trichlorofluoromethane	50.0	42.29		ug/L		85	60 - 140
Vinyl acetate	250	241.1		ug/L		96	60 - 140
Vinyl chloride	50.0	43.75		ug/L		87	60 - 140
Xylenes, Total	100	110.3		ug/L		110	75 - 125
m,p-Xylenes	0.0500	0.05789		mg/L		116	75 - 125
o-Xylene	0.0500	0.05243		mg/L		105	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	92		75 - 131
Toluene-d8 (Surr)	97		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160822/11**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.87		ug/L		108	72 - 125	1	25
1,1,1-Trichloroethane	50.0	48.57		ug/L		97	70 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	52.56		ug/L		105	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.84		ug/L		110	60 - 140	3	25
1,1,2-Trichloroethane	50.0	52.17		ug/L		104	75 - 130	1	25
1,1-Dichloroethane	50.0	48.88		ug/L		98	71 - 130	2	25
1,1-Dichloroethene	50.0	54.14		ug/L		108	50 - 150	2	25
1,2,3-Trichloropropane	50.0	53.59		ug/L		107	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	62.54		ug/L		125	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	53.92		ug/L		108	59 - 125	2	25
1,2-Dibromoethane	50.0	55.05		ug/L		110	73 - 125	1	25
1,2-Dichloroethane	50.0	44.15		ug/L		88	72 - 130	4	25
1,2-Dichloropropane	50.0	51.82		ug/L		104	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	60.41		ug/L		121	60 - 140	1	25
1,3-Butadiene	50.0	43.10		ug/L		86	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	53.35		ug/L		107	70 - 130	2	25
2-Butanone (MEK)	250	261.8		ug/L		105	60 - 140	1	25
2-Hexanone (MBK)	250	259.5		ug/L		104	60 - 140	0	25
2-Propanol	500	<5.23	U *-	ug/L		0	70 - 120	NC	25
3-Chloropropene (Allyl Chloride)	50.0	57.36		ug/L		115	70 - 130	1	25
4-Methyl-2-pentanone	250	248.6		ug/L		99	60 - 140	1	25
Acetone	250	249.7		ug/L		100	60 - 140	0	25
Acetonitrile	500	417.0		ug/L		83	60 - 140	7	25
Acrolein	250	270.8		ug/L		108	60 - 140	4	25
Acrylonitrile	500	471.9		ug/L		94	60 - 140	2	25
alpha-Chlorotoluene	50.0	57.37		ug/L		115	75 - 125	1	25
Benzene	50.0	51.56		ug/L		103	75 - 125	1	25
Bromodichloromethane	50.0	50.10		ug/L		100	75 - 125	2	25
Bromoform	50.0	50.88		ug/L		102	70 - 130	2	25
Bromomethane	50.0	37.02		ug/L		74	60 - 140	2	25
Carbon disulfide	50.0	51.40		ug/L		103	60 - 140	3	25
Carbon tetrachloride	50.0	50.03		ug/L		100	70 - 125	2	25
Chlorobenzene	50.0	54.97		ug/L		110	82 - 135	2	25
Chlorodibromomethane	50.0	55.79		ug/L		112	73 - 125	1	25
Chloroethane	50.0	<1.98	U *-	ug/L		0	60 - 140	NC	25
Chloroform	50.0	46.90		ug/L		94	70 - 121	2	25
Chloromethane	50.0	41.56		ug/L		83	60 - 140	2	25
Chloroprene	50.0	49.45		ug/L		99	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	51.68		ug/L		103	75 - 125	0	25
cis-1,3-Dichloropropene	50.0	55.73		ug/L		111	74 - 125	0	25
Cumene (isopropylbenzene)	50.0	52.78		ug/L		106	75 - 125	1	25
Cyclohexane	50.0	55.06		ug/L		110	70 - 130	2	25
Dibromomethane	50.0	50.47		ug/L		101	69 - 127	0	25
Dichlorodifluoromethane	50.0	45.60		ug/L		91	50 - 150	2	25
Ethyl methacrylate	50.0	59.38		ug/L		119	70 - 130	0	25
Ethylbenzene	50.0	56.50		ug/L		113	75 - 125	1	25
Hexane	50.0	53.93		ug/L		108	72 - 125	4	25
Iodomethane	50.0	52.02		ug/L		104	75 - 125	3	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160822/11**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	1240	<17.1	U *-	ug/L		0	60 - 140	NC	25
Methacrylonitrile	500	502.1		ug/L		100	70 - 130	1	25
Methyl methacrylate	100	112.2		ug/L		112	70 - 130	0	25
Methyl tert-butyl ether	50.0	54.19		ug/L		108	65 - 135	2	25
Methylene Chloride	50.0	52.61		ug/L		105	71 - 125	1	25
Propionitrile	500	474.2		ug/L		95	70 - 130	1	25
Propylbenzene	50.0	60.92		ug/L		122	75 - 125	2	25
Styrene	50.0	52.21		ug/L		104	75 - 125	0	25
Tetrachloroethene	50.0	57.17		ug/L		114	71 - 125	1	25
Tetrahydrofuran	100	91.18		ug/L		91	75 - 125	5	25
Toluene	50.0	54.47		ug/L		109	75 - 130	0	25
trans-1,2-Dichloroethene	50.0	54.61		ug/L		109	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	55.76		ug/L		112	66 - 125	0	25
trans-1,4-Dichloro-2-butene	50.0	51.70		ug/L		103	70 - 130	2	25
Trichloroethene	50.0	53.55		ug/L		107	75 - 135	0	25
Trichlorofluoromethane	50.0	40.88		ug/L		82	60 - 140	3	25
Vinyl acetate	250	225.4		ug/L		90	60 - 140	7	25
Vinyl chloride	50.0	43.45		ug/L		87	60 - 140	1	25
Xylenes, Total	100	110.9		ug/L		111	75 - 125	0	25
m,p-Xylenes	0.0500	0.05822		mg/L		116	75 - 125	1	25
o-Xylene	0.0500	0.05263		mg/L		105	75 - 125	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	92		75 - 131
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: 860-74340-E-2 MS**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	55.66		ug/L		111	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	49.16		ug/L		98	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	54.05		ug/L		108	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	57.43		ug/L		115	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	54.14		ug/L		108	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	48.73		ug/L		97	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	55.19		ug/L		110	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	53.40		ug/L		107	75 - 125
1,2,4-Trimethylbenzene	<0.417	U F1	50.0	63.54	F1	ug/L		127	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	55.57		ug/L		111	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	56.18		ug/L		112	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	44.11		ug/L		88	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	53.00		ug/L		106	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	61.69		ug/L		123	70 - 125
1,3-Butadiene	<0.568	U	50.0	45.01		ug/L		90	70 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74340-E-2 MS**  
**Matrix: Water**  
**Analysis Batch: 160822**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	<0.500	U	50.0	55.51		ug/L		111	70 - 130
2-Butanone (MEK)	<8.28	U	250	259.8		ug/L		104	60 - 140
2-Hexanone (MBK)	<7.45	U	250	254.7		ug/L		102	60 - 140
2-Propanol	<5.23	U *	500	490.7		ug/L		98	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	56.34		ug/L		113	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	245.0		ug/L		98	60 - 140
Acetone	<3.07	U	250	231.2		ug/L		92	60 - 140
Acetonitrile	<14.6	U	500	435.4		ug/L		87	60 - 140
Acrolein	<11.1	U	250	255.9		ug/L		102	50 - 150
Acrylonitrile	<14.3	U	500	464.7		ug/L		93	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	63.12		ug/L		126	70 - 130
Benzene	<0.460	U	50.0	51.99		ug/L		104	66 - 142
Bromodichloromethane	<0.552	U	50.0	50.63		ug/L		101	75 - 125
Bromoform	<0.633	U	50.0	51.62		ug/L		103	75 - 125
Bromomethane	<1.42	U F1	50.0	9.600	F1	ug/L		19	60 - 140
Carbon disulfide	<1.65	U	50.0	52.57		ug/L		105	60 - 140
Carbon tetrachloride	<0.896	U	50.0	51.06		ug/L		102	62 - 125
Chlorobenzene	<0.455	U	50.0	56.41		ug/L		113	60 - 133
Chlorodibromomethane	<0.547	U	50.0	58.17		ug/L		116	73 - 125
Chloroethane	<1.98	U *- F1	50.0	<1.98	U F1	ug/L		0	60 - 140
Chloroform	<0.464	U	50.0	47.04		ug/L		94	70 - 130
Chloromethane	<2.04	U	50.0	41.96		ug/L		84	60 - 140
Chloroprene	<0.598	U	50.0	49.93		ug/L		100	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	51.09		ug/L		102	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	55.96		ug/L		112	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	54.92		ug/L		110	75 - 125
Cyclohexane	<1.29	U	50.0	57.20		ug/L		114	70 - 130
Dibromomethane	<0.357	U	50.0	49.90		ug/L		100	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	46.59		ug/L		93	70 - 130
Ethyl methacrylate	<1.12	U	50.0	60.73		ug/L		121	70 - 130
Ethylbenzene	<0.385	U	50.0	58.52		ug/L		117	75 - 125
Hexane	<0.517	U	50.0	54.97		ug/L		110	72 - 125
Iodomethane	<6.52	U	50.0	47.69		ug/L		95	75 - 125
Isobutanol	<17.1	U *- F1	1240	<17.1	U F1	ug/L		0	60 - 140
Methacrylonitrile	<2.72	U	500	492.8		ug/L		99	70 - 130
Methyl methacrylate	<2.25	U	100	113.3		ug/L		113	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	54.33		ug/L		109	65 - 135
Methylene Chloride	<1.73	U	50.0	51.63		ug/L		103	75 - 125
Propionitrile	<3.34	U	500	457.5		ug/L		91	70 - 130
Propylbenzene	<0.429	U	50.0	62.03		ug/L		124	75 - 125
Styrene	<0.619	U	50.0	54.17		ug/L		108	75 - 125
Tetrachloroethene	<0.655	U	50.0	59.50		ug/L		119	71 - 125
Tetrahydrofuran	<1.83	U F1	100	63.48	F1	ug/L		63	75 - 125
Toluene	<0.475	U	50.0	56.35		ug/L		113	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	55.02		ug/L		110	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	56.96		ug/L		114	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	52.41		ug/L		105	70 - 130
Trichloroethene	<1.50	U	50.0	55.05		ug/L		110	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	40.01		ug/L		80	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74340-E-2 MS**

**Matrix: Water**

**Analysis Batch: 160822**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
Vinyl acetate	<2.14	U	250	244.4		ug/L		98	60 - 140
Vinyl chloride	<0.428	U	50.0	43.99		ug/L		88	60 - 140
Xylenes, Total	<1.24	U	100	114.2		ug/L		114	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05971		mg/L		119	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05449		mg/L		109	75 - 125
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	81		63 - 144						
4-Bromofluorobenzene (Surr)	97		74 - 124						
Dibromofluoromethane (Surr)	91		75 - 131						
Toluene-d8 (Surr)	97		80 - 120						

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-160172/1-A**

**Matrix: Water**

**Analysis Batch: 160340**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/14/24 14:30	05/15/24 16:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/14/24 14:30	05/15/24 16:05	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/14/24 14:30	05/15/24 16:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/14/24 14:30	05/15/24 16:05	1
Benzyl alcohol	0.7250	J	1.14	0.600	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/14/24 14:30	05/15/24 16:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/14/24 14:30	05/15/24 16:05	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/14/24 14:30	05/15/24 16:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/14/24 14:30	05/15/24 16:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/14/24 14:30	05/15/24 16:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/14/24 14:30	05/15/24 16:05	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/14/24 14:30	05/15/24 16:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/14/24 14:30	05/15/24 16:05	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/14/24 14:30	05/15/24 16:05	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/14/24 14:30	05/15/24 16:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/14/24 14:30	05/15/24 16:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/14/24 14:30	05/15/24 16:05	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/14/24 14:30	05/15/24 16:05	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/14/24 14:30	05/15/24 16:05	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/14/24 14:30	05/15/24 16:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/14/24 14:30	05/15/24 16:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/14/24 14:30	05/15/24 16:05	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/14/24 14:30	05/15/24 16:05	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/14/24 14:30	05/15/24 16:05	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/14/24 14:30	05/15/24 16:05	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/14/24 14:30	05/15/24 16:05	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/14/24 14:30	05/15/24 16:05	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/14/24 14:30	05/15/24 16:05	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/14/24 14:30	05/15/24 16:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/14/24 14:30	05/15/24 16:05	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/14/24 14:30	05/15/24 16:05	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/14/24 14:30	05/15/24 16:05	1
Pronamide	0.1811	J I	0.571	0.100	ug/L		05/14/24 14:30	05/15/24 16:05	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/14/24 14:30	05/15/24 16:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/14/24 14:30	05/15/24 16:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/14/24 14:30	05/15/24 16:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/14/24 14:30	05/15/24 16:05	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-160172/1-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	117		43 - 130	05/14/24 14:30	05/15/24 16:05	1
2-Fluorophenol (Surr)	78		19 - 120	05/14/24 14:30	05/15/24 16:05	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133	05/14/24 14:30	05/15/24 16:05	1
Phenol-d5 (Surr)	33		8 - 124	05/14/24 14:30	05/15/24 16:05	1
p-Terphenyl-d14	121		47 - 130	05/14/24 14:30	05/15/24 16:05	1

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	2.907		ug/L		102	32 - 130
1,2-Dichlorobenzene	2.86	2.651		ug/L		93	32 - 130
1,3-Dichlorobenzene	2.86	2.518		ug/L		88	26 - 130
1,4-Dichlorobenzene	2.86	2.589		ug/L		91	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	3.056	I	ug/L		107	10 - 173
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130
2,4,6-Trichlorophenol	2.86	4.075	*+	ug/L		143	52 - 129
2,4-Dichlorophenol	2.86	3.540	*+	ug/L		124	53 - 122
2,4-Dimethylphenol	2.86	3.023		ug/L		106	42 - 120
1,4-Dioxane	2.86	1.278		ug/L		45	27 - 130
2,4-Dinitrophenol	2.86	3.263		ug/L		114	12 - 173
2,4-Dinitrotoluene	2.86	4.832	*+	ug/L		169	48 - 127
2,6-Dinitrotoluene	2.86	5.554	*+	ug/L		194	68 - 137
2-Chloronaphthalene	2.86	4.009	*+	ug/L		140	10 - 130
2-Methylnaphthalene	2.86	3.510		ug/L		123	25 - 175
2-Methylphenol	2.86	2.730		ug/L		96	14 - 176
2-Nitroaniline	2.86	5.650	*+	ug/L		198	59 - 130
2-Nitrophenol	2.86	5.344	*+	ug/L		187	45 - 167
3 & 4 Methylphenol	2.86	2.183		ug/L		76	22 - 130
3-Nitroaniline	2.86	2.061		ug/L		72	30 - 130
4,6-Dinitro-2-methylphenol	2.86	4.063	*+	ug/L		142	10 - 130
4-Bromophenyl phenyl ether	2.86	3.459	*+	ug/L		121	65 - 120
4-Chloro-3-methylphenol	2.86	4.144	*+	ug/L		145	41 - 128
4-Chloroaniline	2.86	1.659		ug/L		58	30 - 130
4-Chlorophenyl phenyl ether	2.86	3.497		ug/L		122	38 - 145
4-Nitroaniline	2.86	2.409		ug/L		84	42 - 125
Acenaphthene	2.86	2.996		ug/L		105	60 - 132
Acenaphthylene	2.86	2.391		ug/L		84	54 - 126
Aniline	2.86	1.236		ug/L		43	15 - 130
Anthracene	2.86	3.199		ug/L		112	43 - 135
Benzo[a]anthracene	2.86	4.117	*+	ug/L		144	42 - 133
Benzo[a]pyrene	2.86	3.331		ug/L		117	32 - 148
Benzo[b]fluoranthene	2.86	4.705	*+	ug/L		165	42 - 140
Benzo[g,h,i]perylene	2.86	3.439		ug/L		120	25 - 195
Benzo[k]fluoranthene	2.86	3.842		ug/L		134	25 - 146
Benzyl alcohol	2.86	3.224		ug/L		113	57 - 130
Bis(2-chloroethoxy)methane	2.86	3.665		ug/L		128	49 - 165

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	2.86	2.971		ug/L		104	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	5.369	*+	ug/L		188	29 - 137
Butyl benzyl phthalate	2.86	5.915	*+	ug/L		207	28 - 130
Chrysene	2.86	3.521		ug/L		123	47 - 130
Dibenz(a,h)anthracene	2.86	3.729		ug/L		131	32 - 200
Dibenzofuran	2.86	3.449		ug/L		121	48 - 130
Diethyl phthalate	2.86	4.515	*+	ug/L		158	53 - 120
Dimethyl phthalate	2.86	4.364	*+	ug/L		153	67 - 120
Di-n-butyl phthalate	2.86	4.644	*+	ug/L		163	8 - 120
Di-n-octyl phthalate	2.86	5.725		ug/L		200	19 - 200
Fluoranthene	2.86	3.581		ug/L		125	43 - 130
Fluorene	2.86	3.236		ug/L		113	70 - 130
Hexachlorobenzene	2.86	3.251		ug/L		114	8 - 142
Hexachlorobutadiene	2.86	2.351		ug/L		82	10 - 130
Hexachlorocyclopentadiene	2.86	2.803		ug/L		98	10 - 130
Hexachloroethane	2.86	2.486		ug/L		87	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	4.042		ug/L		141	29 - 151
Isophorone	2.86	4.361		ug/L		153	47 - 180
Naphthalene	2.86	3.660	*+	ug/L		128	36 - 120
Nitrobenzene	2.86	4.338	*+	ug/L		152	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.092		ug/L		108	14 - 198
N-Nitrosodiphenylamine	2.86	2.284		ug/L		80	40 - 127
Pentachlorophenol	2.86	4.233		ug/L		148	38 - 152
Phenanthrene	2.86	3.525	*+	ug/L		123	65 - 120
Phenol	2.86	1.602	J	ug/L		56	17 - 120
Pyrene	2.86	3.723		ug/L		130	70 - 130
Pyridine	2.86	<1.44	U	ug/L		33	1 - 126
N-Nitro-o-toluidine	2.86	2.012		ug/L		70	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.749		ug/L		131	33 - 132
Acetophenone	2.86	2.801		ug/L		98	58 - 130
N-Nitrosopiperidine	2.86	4.055	*+	ug/L		142	54 - 130
Pentachlorobenzene	2.86	3.199		ug/L		112	47 - 130
Diphenyl ether	2.86	3.604		ug/L		126	61 - 130
1,1'-Biphenyl	2.86	3.188		ug/L		112	52 - 130
4-Aminobiphenyl	2.86	1.696		ug/L		59	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	3.000		ug/L		105	52 - 130
1,3,5-Trinitrobenzene	2.86	5.467	*+	ug/L		191	42 - 130
1,3-Dinitrobenzene	2.86	5.685	*+	ug/L		199	54 - 130
1,4-Naphthoquinone	2.86	4.554	*+	ug/L		159	34 - 130
1-Naphthylamine	2.86	0.6700	I *-	ug/L		23	40 - 130
2,6-Dichlorophenol	2.86	3.725		ug/L		130	40 - 130
2-Acetylaminofluorene	2.86	9.129	*+	ug/L		320	50 - 150
2-Chlorophenol	2.86	3.236		ug/L		113	36 - 120
2-Naphthylamine	2.86	0.7905	*-	ug/L		28	30 - 130
2-Picoline	2.86	1.485		ug/L		52	22 - 130
2-Toluidine	2.86	1.076		ug/L		38	30 - 130
3,3'-Dichlorobenzidine	2.86	1.832		ug/L		64	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4976	J *-	ug/L		17	30 - 130
3-Methylcholanthrene	2.86	3.296		ug/L		115	53 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/2-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroquinoline-1-oxide	2.86	6.357	*+	ug/L		222	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	4.260	*+	ug/L		149	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130
Aramite Peak 1	1.43	3.170	*+	ug/L		222	69 - 130
Aramite Peak 2	1.43	3.540	*+	ug/L		248	65 - 130
Diallate Peak 1	2.11	2.370		ug/L		112	69 - 130
Diallate Peak 2	0.743	0.8822		ug/L		119	67 - 130
Ethyl methanesulfonate	2.86	2.547		ug/L		89	54 - 130
Hexachloropropene	2.86	3.063		ug/L		107	37 - 130
Isosafrole Peak 1	0.457	0.3620	J	ug/L		79	54 - 130
Isosafrole Peak 2	2.40	1.859		ug/L		77	62 - 130
Methyl methanesulfonate	2.86	1.354		ug/L		47	30 - 130
N-Nitrosodiethylamine	2.86	3.079		ug/L		108	54 - 130
N-Nitrosodimethylamine	2.86	1.240		ug/L		43	28 - 126
N-Nitrosodi-n-butylamine	2.86	4.427	*+	ug/L		155	58 - 130
N-Nitrosomethylethylamine	2.86	2.289		ug/L		80	45 - 130
N-Nitrosomorpholine	2.86	2.009		ug/L		70	37 - 130
N-Nitrosopyrrolidine	2.86	2.321		ug/L		81	47 - 130
p-Dimethylamino azobenzene	2.86	4.390	*+	ug/L		154	61 - 130
Pentachloronitrobenzene	2.86	4.827	*+	ug/L		169	56 - 130
Phenacetin	2.86	4.508	*+	ug/L		158	70 - 130
p-Phenylene diamine	2.86	<0.500	U	ug/L		11	3 - 120
Pronamide	2.86	4.772	*+	ug/L		167	70 - 130
Safrole, Total	2.86	2.669		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130
2-Fluorobiphenyl	130		43 - 130
2-Fluorophenol (Surr)	93		19 - 120
Nitrobenzene-d5 (Surr)	206	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	124		47 - 130

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	8.349	*+	ug/L		146	45 - 138
Dinoseb	5.71	10.58	*+	ug/L		185	49 - 130
Disulfoton	5.71	6.417		ug/L		112	38 - 134
Ethyl Parathion	5.71	12.45	*+	ug/L		218	25 - 173
Famphur	2.86	4.910	*+	ug/L		172	43 - 142
Methapyrilene	5.71	9.732		ug/L		170	70 - 183
Methyl parathion	5.71	11.52	*+	ug/L		202	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	3.465		ug/L		121	43 - 130
Phorate	5.71	8.223	*+	ug/L		144	37 - 140
Sulfotepp	5.71	7.783		ug/L		136	28 - 158

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-160172/4-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thionazin	2.86	3.524		ug/L		123	50 - 150
<b>Surrogate</b>							
	<b>%Recovery</b>	<b>LCS</b>	<b>Qualifier</b>	<b>Limits</b>			
2,4,6-Tribromophenol (Surr)	149	S1+		35 - 130			
2-Fluorobiphenyl	126			43 - 130			
2-Fluorophenol (Surr)	83			19 - 120			
Nitrobenzene-d5 (Surr)	185	S1+		37 - 133			
Phenol-d5 (Surr)	56			8 - 124			
p-Terphenyl-d14	124			47 - 130			

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,2,4-Trichlorobenzene	2.86	2.875		ug/L		101	32 - 130	1	30
1,2-Dichlorobenzene	2.86	2.824		ug/L		99	32 - 130	6	30
1,3-Dichlorobenzene	2.86	2.628		ug/L		92	26 - 130	4	30
1,4-Dichlorobenzene	2.86	2.725		ug/L		95	28 - 130	5	30
2,2'-oxybis[1-chloropropane]	2.86	3.206	I	ug/L		112	10 - 173	5	30
2,4,5-Trichlorophenol	2.86	4.694	*+	ug/L		164	35 - 130	0	30
2,4,6-Trichlorophenol	2.86	4.136	*+	ug/L		145	52 - 129	1	30
2,4-Dichlorophenol	2.86	3.788	*+	ug/L		133	53 - 122	7	30
2,4-Dimethylphenol	2.86	2.886		ug/L		101	42 - 120	5	30
1,4-Dioxane	2.86	1.347		ug/L		47	27 - 130	5	30
2,4-Dinitrophenol	2.86	3.573		ug/L		125	12 - 173	9	30
2,4-Dinitrotoluene	2.86	5.083	*+	ug/L		178	48 - 127	5	30
2,6-Dinitrotoluene	2.86	5.609	*+	ug/L		196	68 - 137	1	30
2-Chloronaphthalene	2.86	4.075	*+	ug/L		143	10 - 130	2	30
2-Methylnaphthalene	2.86	3.440		ug/L		120	25 - 175	2	30
2-Methylphenol	2.86	2.668		ug/L		93	14 - 176	2	30
2-Nitroaniline	2.86	5.733	*+	ug/L		201	59 - 130	1	30
2-Nitrophenol	2.86	5.516	*+	ug/L		193	45 - 167	3	30
3 & 4 Methylphenol	2.86	2.098		ug/L		73	22 - 130	4	30
3-Nitroaniline	2.86	2.189		ug/L		77	30 - 130	6	30
4,6-Dinitro-2-methylphenol	2.86	4.009	*+	ug/L		140	10 - 130	1	30
4-Bromophenyl phenyl ether	2.86	3.778	*+	ug/L		132	65 - 120	9	30
4-Chloro-3-methylphenol	2.86	4.206	*+	ug/L		147	41 - 128	1	30
4-Chloroaniline	2.86	1.780		ug/L		62	30 - 130	7	30
4-Chlorophenyl phenyl ether	2.86	3.726		ug/L		130	38 - 145	6	30
4-Nitroaniline	2.86	2.495		ug/L		87	42 - 125	4	30
Acenaphthene	2.86	2.810		ug/L		98	60 - 132	6	30
Acenaphthylene	2.86	2.424		ug/L		85	54 - 126	1	30
Aniline	2.86	1.087		ug/L		38	15 - 130	13	30
Anthracene	2.86	3.099		ug/L		108	43 - 135	3	30
Benzo[a]anthracene	2.86	3.759		ug/L		132	42 - 133	9	30
Benzo[a]pyrene	2.86	3.327		ug/L		116	32 - 148	0	30
Benzo[b]fluoranthene	2.86	4.072	*+	ug/L		143	42 - 140	14	30

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[g,h,i]perylene	2.86	3.452		ug/L		121	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	3.480		ug/L		122	25 - 146	10	30	
Benzyl alcohol	2.86	3.460		ug/L		121	57 - 130	7	30	
Bis(2-chloroethoxy)methane	2.86	3.758		ug/L		132	49 - 165	3	30	
Bis(2-chloroethyl)ether	2.86	3.127		ug/L		109	43 - 126	5	30	
Bis(2-ethylhexyl) phthalate	2.86	4.865	*+	ug/L		170	29 - 137	10	30	
Butyl benzyl phthalate	2.86	5.844	*+	ug/L		205	28 - 130	1	30	
Chrysene	2.86	3.158		ug/L		111	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	3.669		ug/L		128	32 - 200	2	30	
Dibenzofuran	2.86	3.652		ug/L		128	48 - 130	6	30	
Diethyl phthalate	2.86	4.432	*+	ug/L		155	53 - 120	2	30	
Dimethyl phthalate	2.86	4.497	*+	ug/L		157	67 - 120	3	30	
Di-n-butyl phthalate	2.86	4.593	*+	ug/L		161	8 - 120	1	30	
Di-n-octyl phthalate	2.86	5.130		ug/L		180	19 - 200	11	30	
Fluoranthene	2.86	3.667		ug/L		128	43 - 130	2	30	
Fluorene	2.86	3.357		ug/L		117	70 - 130	4	30	
Hexachlorobenzene	2.86	3.126		ug/L		109	8 - 142	4	30	
Hexachlorobutadiene	2.86	2.528		ug/L		88	10 - 130	7	30	
Hexachlorocyclopentadiene	2.86	2.912		ug/L		102	10 - 130	4	30	
Hexachloroethane	2.86	2.609		ug/L		91	10 - 130	5	30	
Indeno[1,2,3-cd]pyrene	2.86	3.973		ug/L		139	29 - 151	2	30	
Isophorone	2.86	4.559		ug/L		160	47 - 180	4	30	
Naphthalene	2.86	3.606	*+	ug/L		126	36 - 120	1	30	
Nitrobenzene	2.86	4.626	*+	ug/L		162	54 - 130	6	30	
N-Nitrosodi-n-propylamine	2.86	3.161		ug/L		111	14 - 198	2	30	
N-Nitrosodiphenylamine	2.86	2.359		ug/L		83	40 - 127	3	30	
Pentachlorophenol	2.86	4.290		ug/L		150	38 - 152	1	30	
Phenanthrene	2.86	3.535	*+	ug/L		124	65 - 120	0	30	
Phenol	2.86	1.636	J	ug/L		57	17 - 120	2	30	
Pyrene	2.86	3.722		ug/L		130	70 - 130	0	30	
Pyridine	2.86	<1.44	U	ug/L		36	1 - 126	8	30	
N-Nitro-o-toluidine	2.86	2.132		ug/L		75	47 - 130	6	30	
2,3,4,6-Tetrachlorophenol	2.86	3.760		ug/L		132	33 - 132	0	30	
Acetophenone	2.86	2.947		ug/L		103	58 - 130	5	30	
N-Nitrosopiperidine	2.86	4.213	*+	ug/L		147	54 - 130	4	30	
Pentachlorobenzene	2.86	3.296		ug/L		115	47 - 130	3	30	
Diphenyl ether	2.86	3.671		ug/L		128	61 - 130	2	30	
1,1'-Biphenyl	2.86	3.306		ug/L		116	52 - 130	4	30	
4-Aminobiphenyl	2.86	1.814		ug/L		64	35 - 130	7	30	
1,2,4,5-Tetrachlorobenzene	2.86	3.048		ug/L		107	52 - 130	2	30	
1,3,5-Trinitrobenzene	2.86	5.777	*+	ug/L		202	42 - 130	6	30	
1,3-Dinitrobenzene	2.86	5.712	*+	ug/L		200	54 - 130	0	30	
1,4-Naphthoquinone	2.86	4.642	*+	ug/L		162	34 - 130	2	30	
1-Naphthylamine	2.86	0.3682	J   *- *1	ug/L		13	40 - 130	58	30	
2,6-Dichlorophenol	2.86	3.691		ug/L		129	40 - 130	1	30	
2-Acetylaminofluorene	2.86	8.930	*+	ug/L		313	50 - 150	2	30	
2-Chlorophenol	2.86	3.424		ug/L		120	36 - 120	6	30	
2-Naphthylamine	2.86	0.4953	J *- *1	ug/L		17	30 - 130	46	30	
2-Picoline	2.86	1.348		ug/L		47	22 - 130	10	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/3-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
2-Toluidine	2.86	1.048		ug/L		37	30 - 130	3	30	
3,3'-Dichlorobenzidine	2.86	1.946		ug/L		68	20 - 150	6	30	
3,3'-Dimethylbenzidine	2.86	0.3553	J * - *1	ug/L		12	30 - 130	33	30	
3-Methylcholanthrene	2.86	3.233		ug/L		113	53 - 130	2	30	
4-Nitroquinoline-1-oxide	2.86	6.027	*+	ug/L		211	39 - 130	5	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.801	*+	ug/L		133	63 - 130	11	30	
alpha,alpha-Dimethylphenethylamine	2.86	<3.67	U * -	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	3.509	*+	ug/L		246	69 - 130	10	30	
Aramite Peak 2	1.43	3.432	*+	ug/L		240	65 - 130	3	30	
Diallate Peak 1	2.11	2.476		ug/L		117	69 - 130	4	30	
Diallate Peak 2	0.743	0.8093		ug/L		109	67 - 130	9	30	
Ethyl methanesulfonate	2.86	2.625		ug/L		92	54 - 130	3	30	
Hexachloropropene	2.86	3.036		ug/L		106	37 - 130	1	30	
Isosafrole Peak 1	0.457	0.3482	J	ug/L		76	54 - 130	4	30	
Isosafrole Peak 2	2.40	1.878		ug/L		78	62 - 130	1	30	
Methyl methanesulfonate	2.86	1.424		ug/L		50	30 - 130	5	30	
N-Nitrosodiethylamine	2.86	3.272		ug/L		115	54 - 130	6	30	
N-Nitrosodimethylamine	2.86	1.262		ug/L		44	28 - 126	2	30	
N-Nitrosodi-n-butylamine	2.86	4.563	*+	ug/L		160	58 - 130	3	30	
N-Nitrosomethylethylamine	2.86	2.398		ug/L		84	45 - 130	5	30	
N-Nitrosomorpholine	2.86	2.035		ug/L		71	37 - 130	1	30	
N-Nitrosopyrrolidine	2.86	2.316		ug/L		81	47 - 130	0	30	
p-Dimethylamino azobenzene	2.86	4.128	*+	ug/L		144	61 - 130	6	30	
Pentachloronitrobenzene	2.86	5.144	*+	ug/L		180	56 - 130	6	30	
Phenacetin	2.86	4.635	*+	ug/L		162	70 - 130	3	30	
p-Phenylene diamine	2.86	<0.500	U * - *1	ug/L		0	3 - 120	200	30	
Pronamide	2.86	4.807	*+	ug/L		168	70 - 130	1	30	
Safrole, Total	2.86	2.539		ug/L		89	70 - 130	5	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	162	S1+	35 - 130
2-Fluorobiphenyl	136	S1+	43 - 130
2-Fluorophenol (Surr)	98		19 - 120
Nitrobenzene-d5 (Surr)	211	S1+	37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14	121		47 - 130

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.862		ug/L		138	45 - 138	6	30	
Dinoseb	5.71	10.04	*+	ug/L		176	49 - 130	5	30	
Disulfoton	5.71	5.406		ug/L		95	38 - 134	17	30	
Ethyl Parathion	5.71	11.34	*+	ug/L		198	25 - 173	9	30	
Famphur	2.86	4.422	*+	ug/L		155	43 - 142	10	30	
Methapyrilene	5.71	9.127		ug/L		160	70 - 183	6	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-160172/5-A**  
**Matrix: Water**  
**Analysis Batch: 160340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 160172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl parathion	5.71	10.21	*+	ug/L		179	26 - 159	12	30
o,o',o"-Triethylphosphorothioate	2.86	3.178		ug/L		111	43 - 130	9	30
Phorate	5.71	7.544		ug/L		132	37 - 140	9	30
Sulfotepp	5.71	7.160		ug/L		125	28 - 158	8	30
Thionazin	2.86	3.352		ug/L		117	50 - 150	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130
2-Fluorobiphenyl	147	S1+	43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	204	S1+	37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	127		47 - 130

**Lab Sample ID: MB 860-161377/1-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:28	05/22/24 04:57	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:28	05/22/24 04:57	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:28	05/22/24 04:57	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/21/24 06:28	05/22/24 04:57	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:28	05/22/24 04:57	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:28	05/22/24 04:57	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:28	05/22/24 04:57	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161377/1-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:28	05/22/24 04:57	1
Benzo[a]anthracene	0.01235	J I	0.0286	0.00953	ug/L		05/21/24 06:28	05/22/24 04:57	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:28	05/22/24 04:57	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:28	05/22/24 04:57	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:28	05/22/24 04:57	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:28	05/22/24 04:57	1
Benzyl alcohol	1.115	J	1.14	0.600	ug/L		05/21/24 06:28	05/22/24 04:57	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:28	05/22/24 04:57	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:28	05/22/24 04:57	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:28	05/22/24 04:57	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:28	05/22/24 04:57	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:28	05/22/24 04:57	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:28	05/22/24 04:57	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:28	05/22/24 04:57	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:28	05/22/24 04:57	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:28	05/22/24 04:57	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:28	05/22/24 04:57	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:28	05/22/24 04:57	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:28	05/22/24 04:57	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:28	05/22/24 04:57	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:28	05/22/24 04:57	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:28	05/22/24 04:57	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:28	05/22/24 04:57	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:28	05/22/24 04:57	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:28	05/22/24 04:57	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:28	05/22/24 04:57	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:28	05/22/24 04:57	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:28	05/22/24 04:57	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:28	05/22/24 04:57	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:28	05/22/24 04:57	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:28	05/22/24 04:57	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:28	05/22/24 04:57	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:28	05/22/24 04:57	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:28	05/22/24 04:57	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:28	05/22/24 04:57	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:28	05/22/24 04:57	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:28	05/22/24 04:57	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/21/24 06:28	05/22/24 04:57	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:28	05/22/24 04:57	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161377/1-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:28	05/22/24 04:57	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:28	05/22/24 04:57	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:28	05/22/24 04:57	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/21/24 06:28	05/22/24 04:57	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/21/24 06:28	05/22/24 04:57	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:28	05/22/24 04:57	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:28	05/22/24 04:57	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/21/24 06:28	05/22/24 04:57	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:28	05/22/24 04:57	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:28	05/22/24 04:57	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:28	05/22/24 04:57	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:28	05/22/24 04:57	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:28	05/22/24 04:57	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:28	05/22/24 04:57	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:28	05/22/24 04:57	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/21/24 06:28	05/22/24 04:57	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:28	05/22/24 04:57	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:28	05/22/24 04:57	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:28	05/22/24 04:57	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:28	05/22/24 04:57	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/21/24 06:28	05/22/24 04:57	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:28	05/22/24 04:57	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:28	05/22/24 04:57	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/21/24 06:28	05/22/24 04:57	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:28	05/22/24 04:57	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:28	05/22/24 04:57	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:28	05/22/24 04:57	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:28	05/22/24 04:57	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/21/24 06:28	05/22/24 04:57	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/21/24 06:28	05/22/24 04:57	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:28	05/22/24 04:57	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:28	05/22/24 04:57	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:28	05/22/24 04:57	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/21/24 06:28	05/22/24 04:57	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:28	05/22/24 04:57	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:28	05/22/24 04:57	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:28	05/22/24 04:57	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:28	05/22/24 04:57	1

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161377/1-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	124		35 - 130	05/21/24 06:28	05/22/24 04:57	1
2-Fluorobiphenyl	110		43 - 130	05/21/24 06:28	05/22/24 04:57	1
2-Fluorophenol (Surr)	76		19 - 120	05/21/24 06:28	05/22/24 04:57	1
Nitrobenzene-d5 (Surr)	134	S1+	37 - 133	05/21/24 06:28	05/22/24 04:57	1
Phenol-d5 (Surr)	44		8 - 124	05/21/24 06:28	05/22/24 04:57	1
p-Terphenyl-d14	98		47 - 130	05/21/24 06:28	05/22/24 04:57	1

**Lab Sample ID: LCS 860-161377/2-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	1.269		ug/L		44	32 - 130
1,2-Dichlorobenzene	2.86	1.421		ug/L		50	32 - 130
1,3-Dichlorobenzene	2.86	1.161		ug/L		41	26 - 130
1,4-Dichlorobenzene	2.86	1.230		ug/L		43	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.393	J I	ug/L		84	10 - 173
2,4,5-Trichlorophenol	2.86	2.801		ug/L		98	35 - 130
2,4,6-Trichlorophenol	2.86	2.640		ug/L		92	52 - 129
2,4-Dichlorophenol	2.86	3.102		ug/L		109	53 - 122
2,4-Dimethylphenol	2.86	1.298		ug/L		45	42 - 120
1,4-Dioxane	2.86	1.025		ug/L		36	27 - 130
2,4-Dinitrophenol	2.86	1.150	J	ug/L		40	12 - 173
2,4-Dinitrotoluene	2.86	2.718		ug/L		95	48 - 127
2,6-Dinitrotoluene	2.86	2.855		ug/L		100	68 - 137
2-Chloronaphthalene	2.86	1.824		ug/L		64	10 - 130
2-Methylnaphthalene	2.86	1.764		ug/L		62	25 - 175
2-Methylphenol	2.86	2.360		ug/L		83	14 - 176
2-Nitroaniline	2.86	1.956		ug/L		68	59 - 130
2-Nitrophenol	2.86	2.893		ug/L		101	45 - 167
3 & 4 Methylphenol	2.86	1.880		ug/L		66	22 - 130
3-Nitroaniline	2.86	1.302		ug/L		46	30 - 130
4,6-Dinitro-2-methylphenol	2.86	1.410		ug/L		49	10 - 130
4-Bromophenyl phenyl ether	2.86	2.438		ug/L		85	65 - 120
4-Chloro-3-methylphenol	2.86	2.556		ug/L		89	41 - 128
4-Chloroaniline	2.86	1.134		ug/L		40	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.095		ug/L		73	38 - 145
4-Nitroaniline	2.86	1.181	*-	ug/L		41	42 - 125
Acenaphthene	2.86	2.171		ug/L		76	60 - 132
Acenaphthylene	2.86	2.112		ug/L		74	54 - 126
Aniline	2.86	0.5110	J	ug/L		18	15 - 130
Anthracene	2.86	2.496		ug/L		87	43 - 135
Benzo[a]anthracene	2.86	2.815		ug/L		99	42 - 133
Benzo[a]pyrene	2.86	2.759		ug/L		97	32 - 148
Benzo[b]fluoranthene	2.86	2.760		ug/L		97	42 - 140
Benzo[g,h,i]perylene	2.86	2.607		ug/L		91	25 - 195
Benzo[k]fluoranthene	2.86	2.984		ug/L		104	25 - 146
Benzyl alcohol	2.86	2.756		ug/L		96	57 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161377/2-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	2.86	2.674		ug/L		94	49 - 165
Bis(2-chloroethyl)ether	2.86	2.774		ug/L		97	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	3.065		ug/L		107	29 - 137
Butyl benzyl phthalate	2.86	3.019		ug/L		106	28 - 130
Chrysene	2.86	2.683		ug/L		94	47 - 130
Dibenz(a,h)anthracene	2.86	2.693		ug/L		94	32 - 200
Dibenzofuran	2.86	2.341		ug/L		82	48 - 130
Diethyl phthalate	2.86	2.697		ug/L		94	53 - 120
Dimethyl phthalate	2.86	2.692		ug/L		94	67 - 120
Di-n-butyl phthalate	2.86	2.616		ug/L		92	8 - 120
Di-n-octyl phthalate	2.86	3.074		ug/L		108	19 - 200
Fluoranthene	2.86	2.510		ug/L		88	43 - 130
Fluorene	2.86	2.443		ug/L		86	70 - 130
Hexachlorobenzene	2.86	2.464		ug/L		86	8 - 142
Hexachlorobutadiene	2.86	0.7639		ug/L		27	10 - 130
Hexachlorocyclopentadiene	2.86	0.7150		ug/L		25	10 - 130
Hexachloroethane	2.86	0.9439		ug/L		33	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	2.771		ug/L		97	29 - 151
Isophorone	2.86	2.718		ug/L		95	47 - 180
Naphthalene	2.86	2.237		ug/L		78	36 - 120
Nitrobenzene	2.86	2.783		ug/L		97	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.307		ug/L		116	14 - 198
N-Nitrosodiphenylamine	2.86	2.636		ug/L		92	40 - 127
Pentachlorophenol	2.86	2.695		ug/L		94	38 - 152
Phenanthrene	2.86	2.598		ug/L		91	65 - 120
Phenol	2.86	1.389	J	ug/L		49	17 - 120
Pyrene	2.86	2.631		ug/L		92	70 - 130
Pyridine	2.86	<1.44	U	ug/L		22	1 - 126
N-Nitro-o-toluidine	2.86	1.256	*-	ug/L		44	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.831		ug/L		99	33 - 132
Acetophenone	2.86	2.823		ug/L		99	58 - 130
N-Nitrosopiperidine	2.86	2.240		ug/L		78	54 - 130
Pentachlorobenzene	2.86	1.730		ug/L		61	47 - 130
Diphenyl ether	2.86	1.936		ug/L		68	61 - 130
1,1'-Biphenyl	2.86	2.108		ug/L		74	52 - 130
4-Aminobiphenyl	2.86	0.6858	*-	ug/L		24	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.238	*-	ug/L		43	52 - 130
1,3,5-Trinitrobenzene	2.86	2.472		ug/L		87	42 - 130
1,3-Dinitrobenzene	2.86	2.727		ug/L		95	54 - 130
1,4-Naphthoquinone	2.86	2.962		ug/L		104	34 - 130
1-Naphthylamine	2.86	0.5841	I *-	ug/L		20	40 - 130
2,6-Dichlorophenol	2.86	2.431		ug/L		85	40 - 130
2-Acetylaminofluorene	2.86	3.859		ug/L		135	50 - 150
2-Chlorophenol	2.86	2.703		ug/L		95	36 - 120
2-Naphthylamine	2.86	0.8044	*-	ug/L		28	30 - 130
2-Picoline	2.86	0.9814		ug/L		34	22 - 130
2-Toluidine	2.86	0.8787		ug/L		31	30 - 130
3,3'-Dichlorobenzidine	2.86	1.066		ug/L		37	20 - 150
3,3'-Dimethylbenzidine	2.86	<0.142	U *-	ug/L		0.4	30 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161377/2-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Methylcholanthrene	2.86	1.461	*-	ug/L		51	53 - 130
4-Nitroquinoline-1-oxide	2.86	2.352		ug/L		82	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	2.506		ug/L		88	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	1.613		ug/L		113	69 - 130
Aramite Peak 2	1.43	1.464		ug/L		102	65 - 130
Diallate Peak 1	2.11	1.719		ug/L		81	69 - 130
Diallate Peak 2	0.743	0.6467		ug/L		87	67 - 130
Ethyl methanesulfonate	2.86	1.891		ug/L		66	54 - 130
Hexachloropropene	2.86	0.7166	*-	ug/L		25	37 - 130
Isosafrole Peak 1	0.457	0.2558	J	ug/L		56	54 - 130
Isosafrole Peak 2	2.40	1.233	*-	ug/L		51	62 - 130
Methyl methanesulfonate	2.86	0.9401		ug/L		33	30 - 130
N-Nitrosodiethylamine	2.86	2.205		ug/L		77	54 - 130
N-Nitrosodimethylamine	2.86	0.7551	*-	ug/L		26	28 - 126
N-Nitrosodi-n-butylamine	2.86	2.564		ug/L		90	58 - 130
N-Nitrosomethylethylamine	2.86	1.724		ug/L		60	45 - 130
N-Nitrosomorpholine	2.86	1.051		ug/L		37	37 - 130
N-Nitrosopyrrolidine	2.86	1.410		ug/L		49	47 - 130
p-Dimethylamino azobenzene	2.86	1.945		ug/L		68	61 - 130
Pentachloronitrobenzene	2.86	2.557		ug/L		89	56 - 130
Phenacetin	2.86	2.557		ug/L		89	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	2.727		ug/L		95	70 - 130
Safrole, Total	2.86	2.194		ug/L		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	126		35 - 130
2-Fluorobiphenyl	111		43 - 130
2-Fluorophenol (Surr)	81		19 - 120
Nitrobenzene-d5 (Surr)	126		37 - 133
Phenol-d5 (Surr)	49		8 - 124
p-Terphenyl-d14	103		47 - 130

**Lab Sample ID: LCS 860-161377/4-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	7.228		ug/L		126	45 - 138
Dinoseb	5.71	8.365	*+	ug/L		146	49 - 130
Disulfoton	5.71	5.700		ug/L		100	38 - 134
Ethyl Parathion	5.71	8.950		ug/L		157	25 - 173
Famphur	2.86	3.740		ug/L		131	43 - 142
Methapyrilene	5.71	7.934		ug/L		139	70 - 183
Methyl parathion	5.71	8.283		ug/L		145	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.888		ug/L		101	43 - 130
Phorate	5.71	5.500		ug/L		96	37 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161377/4-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfotepp	5.71	5.395		ug/L		94	28 - 158
Thionazin	2.86	2.468		ug/L		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	116		35 - 130
2-Fluorobiphenyl	105		43 - 130
2-Fluorophenol (Surr)	81		19 - 120
Nitrobenzene-d5 (Surr)	132		37 - 133
Phenol-d5 (Surr)	58		8 - 124
p-Terphenyl-d14	95		47 - 130

**Lab Sample ID: LCSD 860-161377/3-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	1.313		ug/L		46	32 - 130	3	30
1,2-Dichlorobenzene	2.86	1.425		ug/L		50	32 - 130	0	30
1,3-Dichlorobenzene	2.86	1.145		ug/L		40	26 - 130	1	30
1,4-Dichlorobenzene	2.86	1.178		ug/L		41	28 - 130	4	30
2,2'-oxybis[1-chloropropane]	2.86	2.350	J I	ug/L		82	10 - 173	2	30
2,4,5-Trichlorophenol	2.86	2.892		ug/L		101	35 - 130	3	30
2,4,6-Trichlorophenol	2.86	2.649		ug/L		93	52 - 129	0	30
2,4-Dichlorophenol	2.86	3.003		ug/L		105	53 - 122	3	30
2,4-Dimethylphenol	2.86	1.471		ug/L		51	42 - 120	12	30
1,4-Dioxane	2.86	1.003		ug/L		35	27 - 130	2	30
2,4-Dinitrophenol	2.86	1.143	J	ug/L		40	12 - 173	1	30
2,4-Dinitrotoluene	2.86	2.663		ug/L		93	48 - 127	2	30
2,6-Dinitrotoluene	2.86	2.793		ug/L		98	68 - 137	2	30
2-Chloronaphthalene	2.86	1.891		ug/L		66	10 - 130	4	30
2-Methylnaphthalene	2.86	1.834		ug/L		64	25 - 175	4	30
2-Methylphenol	2.86	2.066		ug/L		72	14 - 176	13	30
2-Nitroaniline	2.86	2.041		ug/L		71	59 - 130	4	30
2-Nitrophenol	2.86	3.001		ug/L		105	45 - 167	4	30
3 & 4 Methylphenol	2.86	1.832		ug/L		64	22 - 130	3	30
3-Nitroaniline	2.86	1.507		ug/L		53	30 - 130	15	30
4,6-Dinitro-2-methylphenol	2.86	1.371		ug/L		48	10 - 130	3	30
4-Bromophenyl phenyl ether	2.86	2.457		ug/L		86	65 - 120	1	30
4-Chloro-3-methylphenol	2.86	2.639		ug/L		92	41 - 128	3	30
4-Chloroaniline	2.86	1.408		ug/L		49	30 - 130	22	30
4-Chlorophenyl phenyl ether	2.86	2.156		ug/L		75	38 - 145	3	30
4-Nitroaniline	2.86	1.318		ug/L		46	42 - 125	11	30
Acenaphthene	2.86	2.176		ug/L		76	60 - 132	0	30
Acenaphthylene	2.86	2.177		ug/L		76	54 - 126	3	30
Aniline	2.86	1.166	*1	ug/L		41	15 - 130	78	30
Anthracene	2.86	2.417		ug/L		85	43 - 135	3	30
Benzo[a]anthracene	2.86	2.761		ug/L		97	42 - 133	2	30
Benzo[a]pyrene	2.86	2.855		ug/L		100	32 - 148	3	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161377/3-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzo[b]fluoranthene	2.86	2.870		ug/L		100	42 - 140	4	30	
Benzo[g,h,i]perylene	2.86	2.619		ug/L		92	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	2.701		ug/L		95	25 - 146	10	30	
Benzyl alcohol	2.86	2.782		ug/L		97	57 - 130	1	30	
Bis(2-chloroethoxy)methane	2.86	2.753		ug/L		96	49 - 165	3	30	
Bis(2-chloroethyl)ether	2.86	2.760		ug/L		97	43 - 126	1	30	
Bis(2-ethylhexyl) phthalate	2.86	3.001		ug/L		105	29 - 137	2	30	
Butyl benzyl phthalate	2.86	2.888		ug/L		101	28 - 130	4	30	
Chrysene	2.86	2.693		ug/L		94	47 - 130	0	30	
Dibenz(a,h)anthracene	2.86	2.708		ug/L		95	32 - 200	1	30	
Dibenzofuran	2.86	2.326		ug/L		81	48 - 130	1	30	
Diethyl phthalate	2.86	2.586		ug/L		91	53 - 120	4	30	
Dimethyl phthalate	2.86	2.756		ug/L		96	67 - 120	2	30	
Di-n-butyl phthalate	2.86	2.522		ug/L		88	8 - 120	4	30	
Di-n-octyl phthalate	2.86	3.004		ug/L		105	19 - 200	2	30	
Fluoranthene	2.86	2.511		ug/L		88	43 - 130	0	30	
Fluorene	2.86	2.480		ug/L		87	70 - 130	2	30	
Hexachlorobenzene	2.86	2.435		ug/L		85	8 - 142	1	30	
Hexachlorobutadiene	2.86	0.7570		ug/L		26	10 - 130	1	30	
Hexachlorocyclopentadiene	2.86	0.7556		ug/L		26	10 - 130	6	30	
Hexachloroethane	2.86	0.8426		ug/L		29	10 - 130	11	30	
Indeno[1,2,3-cd]pyrene	2.86	2.764		ug/L		97	29 - 151	0	30	
Isophorone	2.86	2.790		ug/L		98	47 - 180	3	30	
Naphthalene	2.86	2.017		ug/L		71	36 - 120	10	30	
Nitrobenzene	2.86	2.852		ug/L		100	54 - 130	2	30	
N-Nitrosodi-n-propylamine	2.86	3.104		ug/L		109	14 - 198	6	30	
N-Nitrosodiphenylamine	2.86	2.730		ug/L		96	40 - 127	4	30	
Pentachlorophenol	2.86	2.653		ug/L		93	38 - 152	2	30	
Phenanthrene	2.86	2.490		ug/L		87	65 - 120	4	30	
Phenol	2.86	1.191	J	ug/L		42	17 - 120	15	30	
Pyrene	2.86	2.534		ug/L		89	70 - 130	4	30	
Pyridine	2.86	<1.44	U	ug/L		25	1 - 126	15	30	
N-Nitro-o-toluidine	2.86	1.306	*-	ug/L		46	47 - 130	4	30	
2,3,4,6-Tetrachlorophenol	2.86	2.770		ug/L		97	33 - 132	2	30	
Acetophenone	2.86	2.831		ug/L		99	58 - 130	0	30	
N-Nitrosopiperidine	2.86	2.382		ug/L		83	54 - 130	6	30	
Pentachlorobenzene	2.86	1.747		ug/L		61	47 - 130	1	30	
Diphenyl ether	2.86	2.005		ug/L		70	61 - 130	3	30	
1,1'-Biphenyl	2.86	1.859		ug/L		65	52 - 130	13	30	
4-Aminobiphenyl	2.86	1.278	*1	ug/L		45	35 - 130	60	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.232	*-	ug/L		43	52 - 130	1	30	
1,3,5-Trinitrobenzene	2.86	2.016		ug/L		71	42 - 130	20	30	
1,3-Dinitrobenzene	2.86	2.821		ug/L		99	54 - 130	3	30	
1,4-Naphthoquinone	2.86	2.829		ug/L		99	34 - 130	5	30	
1-Naphthylamine	2.86	1.092	I *- *1	ug/L		38	40 - 130	61	30	
2,6-Dichlorophenol	2.86	2.456		ug/L		86	40 - 130	1	30	
2-Acetylaminofluorene	2.86	3.643		ug/L		127	50 - 150	6	30	
2-Chlorophenol	2.86	2.671		ug/L		93	36 - 120	1	30	
2-Naphthylamine	2.86	1.270	*1	ug/L		44	30 - 130	45	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161377/3-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
2-Picoline	2.86	1.293		ug/L		45	22 - 130	27	30	
2-Toluidine	2.86	1.117		ug/L		39	30 - 130	24	30	
3,3'-Dichlorobenzidine	2.86	1.149		ug/L		40	20 - 150	8	30	
3,3'-Dimethylbenzidine	2.86	0.3757	J * - *1	ug/L		13	30 - 130	187	30	
3-Methylcholanthrene	2.86	1.543		ug/L		54	53 - 130	6	30	
4-Nitroquinoline-1-oxide	2.86	2.237		ug/L		78	39 - 130	5	30	
7,12-Dimethylbenz(a)anthracene	2.86	2.564		ug/L		90	63 - 130	2	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U * -	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	1.662		ug/L		116	69 - 130	3	30	
Aramite Peak 2	1.43	1.492		ug/L		104	65 - 130	2	30	
Diallate Peak 1	2.11	1.765		ug/L		83	69 - 130	3	30	
Diallate Peak 2	0.743	0.6756		ug/L		91	67 - 130	4	30	
Ethyl methanesulfonate	2.86	1.913		ug/L		67	54 - 130	1	30	
Hexachloropropene	2.86	0.7977	* -	ug/L		28	37 - 130	11	30	
Isosafrole Peak 1	0.457	0.2704	J	ug/L		59	54 - 130	6	30	
Isosafrole Peak 2	2.40	1.286	* -	ug/L		54	62 - 130	4	30	
Methyl methanesulfonate	2.86	0.9332		ug/L		33	30 - 130	1	30	
N-Nitrosodiethylamine	2.86	2.237		ug/L		78	54 - 130	1	30	
N-Nitrosodimethylamine	2.86	0.7670	* -	ug/L		27	28 - 126	2	30	
N-Nitrosodi-n-butylamine	2.86	2.664		ug/L		93	58 - 130	4	30	
N-Nitrosomethylethylamine	2.86	1.646		ug/L		58	45 - 130	5	30	
N-Nitrosomorpholine	2.86	1.074		ug/L		38	37 - 130	2	30	
N-Nitrosopyrrolidine	2.86	1.403		ug/L		49	47 - 130	0	30	
p-Dimethylamino azobenzene	2.86	1.857		ug/L		65	61 - 130	5	30	
Pentachloronitrobenzene	2.86	2.769		ug/L		97	56 - 130	8	30	
Phenacetin	2.86	2.598		ug/L		91	70 - 130	2	30	
p-Phenylene diamine	2.86	<0.500	U * -	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	2.772		ug/L		97	70 - 130	2	30	
Safrole, Total	2.86	2.233		ug/L		78	70 - 130	2	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	114		35 - 130
2-Fluorobiphenyl	112		43 - 130
2-Fluorophenol (Surr)	80		19 - 120
Nitrobenzene-d5 (Surr)	134	S1+	37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14	97		47 - 130

**Lab Sample ID: LCSD 860-161377/5-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	7.383		ug/L		129	45 - 138	2	30	
Dinoseb	5.71	9.042	*+	ug/L		158	49 - 130	8	30	
Disulfoton	5.71	6.439		ug/L		113	38 - 134	12	30	
Ethyl Parathion	5.71	9.546		ug/L		167	25 - 173	6	30	
Famphur	2.86	3.917		ug/L		137	43 - 142	5	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161377/5-A**  
**Matrix: Water**  
**Analysis Batch: 161549**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methapyrilene	5.71	8.376		ug/L		147	70 - 183	5	30
Methyl parathion	5.71	9.114		ug/L		159	26 - 159	10	30
o,o',o"-Triethylphosphorothioate	2.86	3.006		ug/L		105	43 - 130	4	30
Phorate	5.71	6.136		ug/L		107	37 - 140	11	30
Sulfotepp	5.71	5.665		ug/L		99	28 - 158	5	30
Thionazin	2.86	2.919		ug/L		102	50 - 150	17	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	123		35 - 130
2-Fluorobiphenyl	114		43 - 130
2-Fluorophenol (Surr)	86		19 - 120
Nitrobenzene-d5 (Surr)	135	S1+	37 - 133
Phenol-d5 (Surr)	60		8 - 124
p-Terphenyl-d14	86		47 - 130

# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## GC/MS VOA

### Analysis Batch: 160794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-1	MW-54	Total/NA	Water	8260D	
860-74062-2	MW-75	Total/NA	Water	8260D	
860-74062-3	MW-73	Total/NA	Water	8260D	
860-74062-4	MW-50	Total/NA	Water	8260D	
860-74062-5	DUPE-03	Total/NA	Water	8260D	
MB 860-160794/9	Method Blank	Total/NA	Water	8260D	
LCS 860-160794/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160794/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74062-1 MS	MW-54	Total/NA	Water	8260D	

### Analysis Batch: 160822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-4 - DL	MW-50	Total/NA	Water	8260D	
860-74062-5 - DL	DUPE-03	Total/NA	Water	8260D	
MB 860-160822/16	Method Blank	Total/NA	Water	8260D	
LCS 860-160822/1010	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160822/11	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74340-E-2 MS	Matrix Spike	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 160172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-1	MW-54	Total/NA	Water	3511	
860-74062-2	MW-75	Total/NA	Water	3511	
860-74062-3	MW-73	Total/NA	Water	3511	
860-74062-3 - DL	MW-73	Total/NA	Water	3511	
860-74062-3 - DL2	MW-73	Total/NA	Water	3511	
860-74062-4	MW-50	Total/NA	Water	3511	
860-74062-4 - DL2	MW-50	Total/NA	Water	3511	
860-74062-5	DUPE-03	Total/NA	Water	3511	
860-74062-5 - DL2	DUPE-03	Total/NA	Water	3511	
MB 860-160172/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 160340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-160172/1-A	Method Blank	Total/NA	Water	8270E	160172
LCS 860-160172/2-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCS 860-160172/4-A	Lab Control Sample	Total/NA	Water	8270E	160172
LCSD 860-160172/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172
LCSD 860-160172/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	160172

### Analysis Batch: 160913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-1	MW-54	Total/NA	Water	8270E	160172
860-74062-2	MW-75	Total/NA	Water	8270E	160172
860-74062-3	MW-73	Total/NA	Water	8270E	160172

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 160913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-4	MW-50	Total/NA	Water	8270E	160172
860-74062-5	DUPE-03	Total/NA	Water	8270E	160172

### Analysis Batch: 161181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-3 - DL	MW-73	Total/NA	Water	8270E	160172

### Analysis Batch: 161344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-3 - DL2	MW-73	Total/NA	Water	8270E	160172
860-74062-4 - DL2	MW-50	Total/NA	Water	8270E	160172
860-74062-5 - DL2	DUPE-03	Total/NA	Water	8270E	160172

### Prep Batch: 161377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-5 - REDL	DUPE-03	Total/NA	Water	3511	
860-74062-5 - RE	DUPE-03	Total/NA	Water	3511	
MB 860-161377/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-161377/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-161377/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-161377/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-161377/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 161549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74062-5 - RE	DUPE-03	Total/NA	Water	8270E	161377
860-74062-5 - REDL	DUPE-03	Total/NA	Water	8270E	161377
MB 860-161377/1-A	Method Blank	Total/NA	Water	8270E	161377
LCS 860-161377/2-A	Lab Control Sample	Total/NA	Water	8270E	161377
LCS 860-161377/4-A	Lab Control Sample	Total/NA	Water	8270E	161377
LCSD 860-161377/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	161377
LCSD 860-161377/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	161377

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: MW-54**

Date Collected: 05/10/24 07:59

Date Received: 05/13/24 11:54

**Lab Sample ID: 860-74062-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160794	05/17/24 10:13	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 16:47	T1S	EET HOU

**Client Sample ID: MW-75**

Date Collected: 05/10/24 08:17

Date Received: 05/13/24 11:54

**Lab Sample ID: 860-74062-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160794	05/17/24 12:16	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 17:17	T1S	EET HOU

**Client Sample ID: MW-73**

Date Collected: 05/10/24 09:07

Date Received: 05/13/24 11:54

**Lab Sample ID: 860-74062-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		500	5 mL	5 mL	160794	05/17/24 17:15	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 17:46	T1S	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL	50	1 mL	1 mL	161181	05/20/24 15:05	EM	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL2	500	1 mL	1 mL	161344	05/21/24 00:52	EM	EET HOU

**Client Sample ID: MW-50**

Date Collected: 05/10/24 09:08

Date Received: 05/13/24 11:54

**Lab Sample ID: 860-74062-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160794	05/17/24 12:58	NA	EET HOU
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	160822	05/17/24 18:00	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 18:16	T1S	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL2	1000	1 mL	1 mL	161344	05/21/24 01:21	EM	EET HOU

**Client Sample ID: DUPE-03**

Date Collected: 05/10/24 00:00

Date Received: 05/13/24 11:54

**Lab Sample ID: 860-74062-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160794	05/17/24 13:18	NA	EET HOU
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	160822	05/17/24 18:19	NA	EET HOU

Eurofins Houston

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

**Client Sample ID: DUPE-03**

**Lab Sample ID: 860-74062-5**

**Date Collected: 05/10/24 00:00**

**Matrix: Water**

**Date Received: 05/13/24 11:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	160913	05/17/24 18:45	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161377	05/21/24 06:28	DR	EET HOU
Total/NA	Analysis	8270E	RE	50	1 mL	1 mL	161549	05/22/24 08:51	LPL	EET HOU
Total/NA	Prep	3511	REDL		35.00 mL	2.00 mL	161377	05/21/24 06:28	DR	EET HOU
Total/NA	Analysis	8270E	REDL	1000	1 mL	1 mL	161549	05/22/24 09:20	LPL	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	160172	05/14/24 14:30	DR	EET HOU
Total/NA	Analysis	8270E	DL2	1000	1 mL	1 mL	161344	05/21/24 01:50	EM	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200





# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-74062-1	MW-54	Water	05/10/24 07:59	05/13/24 11:54
860-74062-2	MW-75	Water	05/10/24 08:17	05/13/24 11:54
860-74062-3	MW-73	Water	05/10/24 09:07	05/13/24 11:54
860-74062-4	MW-50	Water	05/10/24 09:08	05/13/24 11:54
860-74062-5	DUPE-03	Water	05/10/24 00:00	05/13/24 11:54

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4145 Greenbrier Ln  
Shakford, TX 77477  
Phone (281) 240-4200

**Chain of Custody Record**

101Y KALE

**Client Information**

Client Contact:  
Mr. Antonio Cardoso  
Company:  
Arcadis U.S., Inc.  
Address:  
4300 West Cypress Street Suite 450  
City:  
Tampa  
State, Zip:  
FL, 33607  
Phone:  
Email:  
antonio.cardoso@arcadis.com  
Project Name:  
Hercules Hattiesburg, MS  
Site:

Superior  
K. McGowan  
Phone: 285-305-8246  
PWSID:

Lab PM  
B. Lessid  
Kudachkar Sachin G  
E-Mail: Sachin.Kudachkar@el.eurofins.com

Carrier Tracking No(s):  
State of Origin: MS  
Job #:

COC No:  
860-29133-10045.3  
Page:  
Page 3 of 8  
10/1

Preservation Codes:  
N None

Due Date Requested:  
TAT Requested (days):  
Compliance Project:  Yes  No  
PO #:  
1095575  
NOC #:

Project #:  
86006085  
SSOW#:

Analysis Requested

Field Filtered Sample (Yes or No)  
Return Method (See VOC table)

8270E\_QQ (MOD) Appendix 9 SVOCs  
8260D (MOD) Appendix 9 VOCs

Barcode: 860-74062 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Return Method (See VOC table)	Total Number of	Special Instructions/Note:
MM-54	5/10/24	0759	G	Water	N	X	N	7	HIT!
MM-75		0817		Water	X	X	X	7	HIT!
MM-23		0907		Water	X	X	X	7	HIT!
MM-50		0908		Water	X	X	X	7	HIT!
DOPE-03				Water	X	X	X	7	HIT!
IB-06 (05)				Water	X	X	X	7	HIT!
MM-25				Water					
MM-27D				Water					
MM-31D				Water					

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: 5:10-24/10:15 Company: Arcadis

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Custody Seal No. 3528660

Received by: \_\_\_\_\_ Date/Time: 5:25 0430 Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: 1:00 IR 10/26/28 Company: \_\_\_\_\_

Cooler Temperature: \_\_\_\_\_ C and Other Remarks: \_\_\_\_\_

Special Instructions/CC Requirements: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Method of Shipment: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74062-1

**Login Number: 74062**

**List Source: Eurofins Houston**

**List Number: 1**

**Creator: Grandits, Corey**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	TB-06 (051024) listed on COC however was not received inside cooler.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74062-1

**Login Number: 74062**

**List Number: 2**

**Creator: Grandits, Corey**

**List Source: Eurofins Houston**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/31/2024 3:51:16 PM

**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-74285-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Job ID: 860-74285-1**

**Eurofins Houston**

## Job Narrative 860-74285-1

### Receipt

The samples were received on 5/15/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

### Receipt Exceptions

One or more containers for the following sample was received broken or leaking: MW-10 (860-74285-5). ONE 40 Amber received brokjen

### GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-160971 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

Method 8270E: The surrogate recovery for the laboratory control sample duplicate associated with preparation batch 860-161269 and analytical batch 860-161429 was outside the upper control limit.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-19 (860-74285-10), MW-20 (860-74285-11), MW-22 (860-74285-12) and MW-9 (860-74285-14). These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) associated with batch 860-161539 recovered above the upper control limit for Dimethoate, Ethyl Parathion, Famphur, Methyl parathion and Phorate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-161539/3).

Method 8270E: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-161269 and analytical batch 860-161429 recovered outside control limits for 1-Naphthylamine, 2-Naphthylamine, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroaniline, alpha,alpha-Dimethyl phenethylamine, Diallate Peak 1, Isosafrole Peak 2, N-Nitro-o-toluidine, N-Nitrosodimethylamine, N-Nitrosopyrrolidine, p-Dimethylamino azobenzene and p-Phenylene diamine. The associated sample was re-prepared and/or re-analyzed outside holding time.

Method 8270E: The following samples required a dilution due to the nature of the sample matrix: MW-19 (860-74285-10), MW-20 (860-74285-11) and MW-22 (860-74285-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-20 (860-74285-11). These results have been reported and qualified.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-20 (860-74285-11) and MW-22 (860-74285-12). These results have been reported and qualified.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-19 (860-74285-10), MW-20 (860-74285-11), MW-22 (860-74285-12) and MW-9 (860-74285-14). These results have been reported and qualified.

Method 8270E: The surrogate recovery for the blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-162111 and analytical batch 860-162155 was outside the upper control limits.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Job ID: 860-74285-1 (Continued)

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number of surrogate compounds outside limits: MW-1 (860-74285-1), MW-2 (860-74285-2), MW-3 (860-74285-3), MW-10 (860-74285-5), MW-11 (860-74285-6), RB-01 (860-74285-7), MW-12 (860-74285-8), MW-24 (860-74285-9), MW-20 (860-74285-11), MW-22 (860-74285-12), MW-18 (860-74285-13), MW-18 (860-74285-13[MS]), MW-18 (860-74285-13[MSD]) and MW-9 (860-74285-14). These results have been reported and qualified.

Method 8270E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-19 (860-74285-10), MW-20 (860-74285-11) and MW-22 (860-74285-12). Elevated reporting limits (RLs) are provided.

Method 8270E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-19 (860-74285-10), MW-20 (860-74285-11) and MW-22 (860-74285-12). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-1 (860-74285-1), MW-2 (860-74285-2), MW-3 (860-74285-3), MW-10 (860-74285-5), MW-11 (860-74285-6), RB-01 (860-74285-7), MW-24 (860-74285-9), MW-18 (860-74285-13), MW-18 (860-74285-13[MS]) and MW-18 (860-74285-13[MSD]). These results have been reported and qualified.

Method 8270E: The following samples required a dilution due to the nature of the sample matrix: MW-19 (860-74285-10), MW-20 (860-74285-11) and MW-22 (860-74285-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: Surrogate recovery for the following sample was outside control limits: MW-19 (860-74285-10). Re-extraction and re-analysis was performed and surrogate recovery was outside control limits.

Method 8270E: The method blank for preparation batch 860-162111 and analytical batch 860-162155 contained Benzyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank. Samples were extracted and re-analyzed. Both sets of data have reported.

Method 8270E: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-162111 and analytical batch 860-162155 recovered outside control limits for the following analytes: 1,2,4,5-Tetrachlorobenzene, 1-Naphthylamine, 2-Acetylaminofluorene, Hexachloropropene and p-Phenylene diamine. The associated samples were re-prepared and/or re-analyzed outside holding time.

Method 8270E: The following samples were re-prepared and re-analyzed outside of preparation holding time due to QC failed low on first extracted: MW-1 (860-74285-1), MW-2 (860-74285-2), MW-3 (860-74285-3), MW-10 (860-74285-5), MW-11 (860-74285-6), RB-01 (860-74285-7), MW-12 (860-74285-8), MW-24 (860-74285-9), MW-19 (860-74285-10), MW-20 (860-74285-11), MW-22 (860-74285-12), MW-18 (860-74285-13), MW-18 (860-74285-13[MS]), MW-18 (860-74285-13[MSD]) and MW-9 (860-74285-14).

Method 8270E: Surrogate recovery for the following sample was outside control limits: MW-12 (860-74285-8). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

Method 8270E: The surrogate recovery for the laboratory control sample and the laboratory control sample duplicate associated with preparation batch 860-161269 and analytical batch 860-161429 was outside the upper control limits.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-161269 and analytical batch 860-161429 recovered outside control limits for the following analytes: 2-Picoline, 3,3'-Dimethylbenzidine, 4,6-Dinitro-2-methylphenol and Pyridine.

Method 8270E: The laboratory control sample duplicate (LCSD) for preparation batch 860-161269 and analytical batch 860-161429 recovered outside control limits for the following analyte: Dinoseb. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The method blank for preparation batch 860-161269 and analytical batch 860-161429 contained Benzyl alcohol above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8270E: The following samples required a dilution due to the nature of the sample matrix: MW-19 (860-74285-10) and MW-22 (860-74285-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: The following samples required a dilution due to the nature of the sample matrix: MW-18 (860-74285-13), MW-18 (860-74285-13[MS]) and MW-18 (860-74285-13[MSD]). Because of this dilution, the surrogate spike concentration in the sample

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Job ID: 860-74285-1 (Continued)

Eurofins Houston

was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-19 (860-74285-10), MW-20 (860-74285-11), MW-22 (860-74285-12) and MW-9 (860-74285-14). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Houston



# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Client Sample ID: MW-1

## Lab Sample ID: 860-74285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol	1.14	B	1.14	0.600	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.78	H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-2

## Lab Sample ID: 860-74285-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.903		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.63	B	1.14	0.600	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	0.882	H	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.43	H I B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-3

## Lab Sample ID: 860-74285-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.513	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.49	I B	1.14	0.600	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	0.436	J H	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.10	J H I B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-07 051324

## Lab Sample ID: 860-74285-4

No Detections.

## Client Sample ID: MW-10

## Lab Sample ID: 860-74285-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.210	J I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.02	J B	1.14	0.600	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	0.147	J H	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	2.03	H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-11

## Lab Sample ID: 860-74285-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.158	J I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.35	I B	1.14	0.600	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	0.142	J H I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	0.789	J H I B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: RB-01

## Lab Sample ID: 860-74285-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.40	J	100	3.07	ug/L	1		8260D	Total/NA
Benzene	0.742	J	1.00	0.460	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	6.43		1.00	0.592	ug/L	1		8260D	Total/NA
Benzyl alcohol	1.32	B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.0956	J	0.571	0.0910	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.31	H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-12

## Lab Sample ID: 860-74285-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.141	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.35	B	1.14	0.600	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	0.144	J H	0.571	0.0890	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Client Sample ID: MW-12 (Continued)

Lab Sample ID: 860-74285-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol - RE	1.07	J H B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-24

Lab Sample ID: 860-74285-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.246	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.28	B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.125	J	0.571	0.0910	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	0.254	J H	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.19	H B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether - RE	0.134	J H	0.571	0.0910	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-19

Lab Sample ID: 860-74285-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	19.9		5.00	0.500	ug/L	1		8260D	Total/NA
Benzene	0.623	J	1.00	0.460	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.349	J	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.111	J	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dioxane	2.46		0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	1.06		0.571	0.0603	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.41	B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	3.97		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.172	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	19.5		0.571	0.0944	ug/L	1		8270E	Total/NA
Diphenyl ether	9430	H	286	45.5	ug/L	500		8270E	Total/NA
1,1'-Biphenyl	2090	H	286	49.1	ug/L	500		8270E	Total/NA
Phenol - DL	35.4		28.6	4.48	ug/L	10		8270E	Total/NA
Diphenyl ether - DL2	8240		571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl - DL2	1990		571	98.1	ug/L	1000		8270E	Total/NA
1,2-Dichlorobenzene - RE	0.335	J H	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene - RE	0.116	J H	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	2.29	H	0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylnaphthalene - RE	1.09	H	0.571	0.0603	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.50	H I B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran - RE	3.55	H	0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene - RE	0.159	J H	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene - RE	20.7	H	0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol - REDL	37.5	H	28.6	4.48	ug/L	10		8270E	Total/NA
1,1'-Biphenyl - REDL2	1860	H	57.1	9.81	ug/L	100		8270E	Total/NA

## Client Sample ID: MW-20

Lab Sample ID: 860-74285-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	6.27		1.00	0.417	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	2.06		1.00	0.411	ug/L	1		8260D	Total/NA
Benzene	29.9		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	5.08		1.00	0.455	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	2.76		1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	2.87		1.00	0.385	ug/L	1		8260D	Total/NA
Propylbenzene	2.24		1.00	0.429	ug/L	1		8260D	Total/NA
Toluene	3.30		1.00	0.475	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Client Sample ID: MW-20 (Continued)

## Lab Sample ID: 860-74285-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	7.63	J	10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.00641	J	0.0100	0.00124	mg/L	1		8260D	Total/NA
o-Xylene	0.00122		0.00100	0.000502	mg/L	1		8260D	Total/NA
2,4-Dimethylphenol	0.646		0.571	0.192	ug/L	1		8270E	Total/NA
Acenaphthene	1.01		0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.80	B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran	0.318	J	0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.217	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	0.697		0.571	0.0944	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	9.79		0.571	0.0981	ug/L	1		8270E	Total/NA
1,4-Dioxane - DL	65.9		11.4	1.78	ug/L	20		8270E	Total/NA
Phenol - DL	19.6	J	28.6	4.48	ug/L	10		8270E	Total/NA
Diphenyl ether - DL2	1380		286	45.5	ug/L	500		8270E	Total/NA
2,4-Dimethylphenol - RE	0.738	H	0.571	0.192	ug/L	1		8270E	Total/NA
2-Methylnaphthalene - RE	0.0641	J H I	0.571	0.0603	ug/L	1		8270E	Total/NA
Acenaphthene - RE	1.08	H	0.571	0.107	ug/L	1		8270E	Total/NA
Anthracene - RE	0.0989	J H	0.571	0.0938	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.43	H I B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran - RE	0.309	J H	0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene - RE	0.211	J H	0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene - RE	0.641	H	0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol - RE	17.3	H	2.86	0.448	ug/L	1		8270E	Total/NA
1,1'-Biphenyl - RE	2.95	H	0.571	0.0981	ug/L	1		8270E	Total/NA
1,4-Dioxane - REDL	68.6	H	5.71	0.890	ug/L	10		8270E	Total/NA
Diphenyl ether - REDL2	1820	H	57.1	9.10	ug/L	100		8270E	Total/NA

## Client Sample ID: MW-22

## Lab Sample ID: 860-74285-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone	23.2	J	50.0	7.49	ug/L	1		8260D	Total/NA
Acetone	12.7	J	100	3.07	ug/L	1		8260D	Total/NA
Benzene	43.2		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	7.44		1.00	0.455	ug/L	1		8260D	Total/NA
Ethylbenzene	0.478	J	1.00	0.385	ug/L	1		8260D	Total/NA
Tetrahydrofuran	3.13	J	10.0	1.83	ug/L	1		8260D	Total/NA
Toluene	0.851	J	1.00	0.475	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.0963	J	0.571	0.0941	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol	0.162	J	0.571	0.140	ug/L	1		8270E	Total/NA
1,4-Dioxane	4.63		0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.650		0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylphenol	0.646		0.571	0.105	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	1.93		0.571	0.139	ug/L	1		8270E	Total/NA
Dibenzofuran	4.46		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.127	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Acetophenone	0.941	J	1.14	0.624	ug/L	1		8270E	Total/NA
Diphenyl ether	10400	H	571	91.0	ug/L	1000		8270E	Total/NA
1,1'-Biphenyl	3310	H	571	98.1	ug/L	1000		8270E	Total/NA
2-Chlorophenol	0.199	J	0.571	0.0756	ug/L	1		8270E	Total/NA
Naphthalene - DL	27.0		5.71	0.944	ug/L	10		8270E	Total/NA
Phenol - DL	43.4		28.6	4.48	ug/L	10		8270E	Total/NA
Diphenyl ether - DL	10500		571	91.0	ug/L	1000		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Client Sample ID: MW-22 (Continued)

## Lab Sample ID: 860-74285-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl - DL	3370		571	98.1	ug/L	1000		8270E	Total/NA
1,2-Dichlorobenzene - RE	0.100	J H	0.571	0.0941	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol - RE	0.201	J H	0.571	0.140	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol - RE	1.79	H	0.571	0.192	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	4.32	H	0.571	0.0890	ug/L	1		8270E	Total/NA
2-Methylnaphthalene - RE	0.604	I H	0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylphenol - RE	1.17	H	0.571	0.105	ug/L	1		8270E	Total/NA
Aniline - RE	1.21	I H	0.571	0.0580	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.59	I H B	1.14	0.600	ug/L	1		8270E	Total/NA
Dibenzofuran - RE	3.70	H	0.571	0.107	ug/L	1		8270E	Total/NA
Acetophenone - RE	1.00	J H	1.14	0.624	ug/L	1		8270E	Total/NA
2-Chlorophenol - RE	0.135	J H	0.571	0.0756	ug/L	1		8270E	Total/NA
Naphthalene - REDL	23.2	H	5.71	0.944	ug/L	10		8270E	Total/NA
Phenol - REDL	50.7	H	28.6	4.48	ug/L	10		8270E	Total/NA

## Client Sample ID: MW-18

## Lab Sample ID: 860-74285-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	16.9		1.00	0.455	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.197	J F1	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.364	J F1	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dioxane	11.4		0.571	0.0890	ug/L	1		8270E	Total/NA
Acenaphthene	0.914		0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.26	B	1.14	0.600	ug/L	1		8270E	Total/NA
Bis(2-chloroethyl)ether	0.645	I	0.571	0.214	ug/L	1		8270E	Total/NA
Fluorene	0.140	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Diphenyl ether	0.956	F1	0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.120	J F1	0.571	0.0981	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	1.21		0.571	0.138	ug/L	1		8270E	Total/NA
1,2-Dichlorobenzene - RE	0.174	J H F1	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene - RE	0.327	J H F1	0.571	0.0779	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	10.1	H	0.571	0.0890	ug/L	1		8270E	Total/NA
Acenaphthene - RE	0.833	H	0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	0.894	J H I B	1.14	0.600	ug/L	1		8270E	Total/NA
Bis(2-chloroethyl)ether - RE	0.559	J H I	0.571	0.214	ug/L	1		8270E	Total/NA
Fluorene - RE	0.128	J H	0.571	0.0948	ug/L	1		8270E	Total/NA
Phenol - RE	8.99	H F1	2.86	0.448	ug/L	1		8270E	Total/NA
1,1'-Biphenyl - RE	8.54	H F1	0.571	0.0981	ug/L	1		8270E	Total/NA
2-Chlorophenol - RE	0.163	J H	0.571	0.0756	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RE	1.22	H	0.571	0.138	ug/L	1		8270E	Total/NA
Diphenyl ether - REDL	710	H	28.6	4.55	ug/L	50		8270E	Total/NA

## Client Sample ID: MW-9

## Lab Sample ID: 860-74285-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	8.88		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.13	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	1.05		0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.257	J	0.571	0.0981	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	0.264	J	0.571	0.138	ug/L	1		8270E	Total/NA
1,4-Dioxane - RE	7.41	H	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol - RE	1.01	J H I B	1.14	0.600	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9 (Continued)**

**Lab Sample ID: 860-74285-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether - RE	0.427	J H	0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RE	0.281	J H	0.571	0.138	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

**Date Collected: 05/13/24 13:05**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 12:52	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 12:52	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 12:52	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 12:52	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 12:52	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 12:52	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 12:52	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 12:52	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 12:52	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 12:52	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 12:52	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 12:52	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 12:52	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 12:52	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 12:52	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 12:52	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 12:52	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 12:52	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 12:52	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 12:52	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 12:52	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 12:52	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 12:52	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 12:52	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 12:52	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 12:52	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 12:52	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 12:52	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 12:52	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 12:52	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 12:52	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 12:52	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 12:52	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 12:52	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 12:52	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 12:52	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 12:52	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 12:52	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 12:52	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 12:52	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 12:52	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 12:52	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 12:52	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 12:52	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 12:52	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 12:52	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 12:52	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 12:52	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

**Date Collected: 05/13/24 13:05**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 12:52	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 12:52	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 12:52	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 12:52	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 12:52	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 12:52	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 12:52	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 12:52	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 12:52	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 12:52	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 12:52	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 12:52	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 12:52	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 12:52	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 12:52	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 12:52	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 12:52	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 12:52	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 12:52	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/18/24 12:52	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/18/24 12:52	1
Dibromofluoromethane (Surr)	98		75 - 131		05/18/24 12:52	1
Toluene-d8 (Surr)	100		80 - 120		05/18/24 12:52	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 18:26	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 18:26	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 18:26	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 18:26	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

Date Collected: 05/13/24 13:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:26	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 18:26	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 18:26	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 18:26	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 18:26	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 18:26	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 18:26	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 18:26	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 18:26	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 18:26	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 18:26	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 18:26	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 18:26	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 18:26	1
<b>Benzyl alcohol</b>	<b>1.14</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 18:26	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 18:26	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 18:26	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 18:26	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 18:26	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 18:26	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 18:26	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 18:26	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 18:26	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 18:26	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 18:26	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 18:26	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 18:26	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 18:26	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 18:26	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 18:26	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 18:26	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 18:26	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:26	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 18:26	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 18:26	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 18:26	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 18:26	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 18:26	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 18:26	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 18:26	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 18:26	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 18:26	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 18:26	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 18:26	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

Date Collected: 05/13/24 13:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 18:26	1
4-Aminobiphenyl	<0.394	U *	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 18:26	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 18:26	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 18:26	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 18:26	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 18:26	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 18:26	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 18:26	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 18:26	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 18:26	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 18:26	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 18:26	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 18:26	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 18:26	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 18:26	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 18:26	1
Diallate Peak 1	<0.0835	U *	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 18:26	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 18:26	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 18:26	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 18:26	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 18:26	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 18:26	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 18:26	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 18:26	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 18:26	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 18:26	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 18:26	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 18:26	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 18:26	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 18:26	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 18:26	1
N-Nitrosopyrrolidine	<0.268	U *	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 18:26	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 18:26	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 18:26	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:26	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:26	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 18:26	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

**Date Collected: 05/13/24 13:05**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 18:26	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:26	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 18:26	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 18:26	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 18:26	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130				05/20/24 16:16	05/21/24 18:26	1
2-Fluorobiphenyl	96		43 - 130				05/20/24 16:16	05/21/24 18:26	1
2-Fluorophenol (Surr)	88		19 - 120				05/20/24 16:16	05/21/24 18:26	1
Nitrobenzene-d5 (Surr)	157	S1+	37 - 133				05/20/24 16:16	05/21/24 18:26	1
Phenol-d5 (Surr)	59		8 - 124				05/20/24 16:16	05/21/24 18:26	1
p-Terphenyl-d14	89		47 - 130				05/20/24 16:16	05/21/24 18:26	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 15:42	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 15:42	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 15:42	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 15:42	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 15:42	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 15:42	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 15:42	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 15:42	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 15:42	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 15:42	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 15:42	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 15:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

Date Collected: 05/13/24 13:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 15:42	1
<b>Benzy alcohol</b>	<b>1.78</b>	<b>H B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 15:42	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 15:42	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 15:42	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 15:42	1
Butyl benzy phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 15:42	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 15:42	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 15:42	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 15:42	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 15:42	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 15:42	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 15:42	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 15:42	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 15:42	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 15:42	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 15:42	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 15:42	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 15:42	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 15:42	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:42	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 15:42	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 15:42	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 15:42	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 15:42	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 15:42	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 15:42	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 15:42	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 15:42	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 15:42	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 15:42	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 15:42	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 15:42	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 15:42	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 15:42	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 15:42	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-1**

**Lab Sample ID: 860-74285-1**

Date Collected: 05/13/24 13:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 15:42	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 15:42	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 15:42	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 15:42	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 15:42	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 15:42	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 15:42	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 15:42	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 15:42	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 15:42	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 15:42	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 15:42	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 15:42	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 15:42	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 15:42	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 15:42	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 15:42	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 15:42	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 15:42	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 15:42	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 15:42	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 15:42	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 15:42	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 15:42	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 15:42	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 15:42	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 15:42	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 15:42	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:42	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:42	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 15:42	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 15:42	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:42	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 15:42	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 15:42	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	137	S1+	35 - 130	05/24/24 05:36	05/24/24 15:42	1
2-Fluorobiphenyl	93		43 - 130	05/24/24 05:36	05/24/24 15:42	1
2-Fluorophenol (Surr)	115		19 - 120	05/24/24 05:36	05/24/24 15:42	1
Nitrobenzene-d5 (Surr)	170	S1+	37 - 133	05/24/24 05:36	05/24/24 15:42	1
Phenol-d5 (Surr)	89		8 - 124	05/24/24 05:36	05/24/24 15:42	1
p-Terphenyl-d14	87		47 - 130	05/24/24 05:36	05/24/24 15:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

**Date Collected: 05/13/24 14:05**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 13:13	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 13:13	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 13:13	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 13:13	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 13:13	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 13:13	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 13:13	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 13:13	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 13:13	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 13:13	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 13:13	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 13:13	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 13:13	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 13:13	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 13:13	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 13:13	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 13:13	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 13:13	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 13:13	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 13:13	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 13:13	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 13:13	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 13:13	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 13:13	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 13:13	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 13:13	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 13:13	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 13:13	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 13:13	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 13:13	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 13:13	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 13:13	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 13:13	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 13:13	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 13:13	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 13:13	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 13:13	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 13:13	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 13:13	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 13:13	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 13:13	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 13:13	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 13:13	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 13:13	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 13:13	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 13:13	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 13:13	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 13:13	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 13:13	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 13:13	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 13:13	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 13:13	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 13:13	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 13:13	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 13:13	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 13:13	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 13:13	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 13:13	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 13:13	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 13:13	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 13:13	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 13:13	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 13:13	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 13:13	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 13:13	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 13:13	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 13:13	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/18/24 13:13	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/18/24 13:13	1
Dibromofluoromethane (Surr)	100		75 - 131		05/18/24 13:13	1
Toluene-d8 (Surr)	99		80 - 120		05/18/24 13:13	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 18:55	1
<b>1,4-Dioxane</b>	<b>0.903</b>		0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 18:55	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 18:55	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 18:55	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 18:55	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:55	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 18:55	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 18:55	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 18:55	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 18:55	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 18:55	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 18:55	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 18:55	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 18:55	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 18:55	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 18:55	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 18:55	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 18:55	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 18:55	1
<b>Benzyl alcohol</b>	<b>1.63</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 18:55	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 18:55	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 18:55	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 18:55	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 18:55	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 18:55	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 18:55	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 18:55	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 18:55	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 18:55	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 18:55	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 18:55	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 18:55	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 18:55	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 18:55	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 18:55	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 18:55	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 18:55	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:55	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 18:55	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 18:55	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 18:55	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 18:55	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 18:55	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 18:55	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 18:55	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 18:55	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 18:55	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 18:55	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 18:55	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 18:55	1
4-Aminobiphenyl	<0.394	U *	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 18:55	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 18:55	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 18:55	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 18:55	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 18:55	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 18:55	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 18:55	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 18:55	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 18:55	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 18:55	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 18:55	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 18:55	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 18:55	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 18:55	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 18:55	1
Diallate Peak 1	<0.0835	U *	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 18:55	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 18:55	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 18:55	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 18:55	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 18:55	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 18:55	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 18:55	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 18:55	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 18:55	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 18:55	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 18:55	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 18:55	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 18:55	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 18:55	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 18:55	1
N-Nitrosopyrrolidine	<0.268	U *	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 18:55	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 18:55	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 18:55	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:55	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:55	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 18:55	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 18:55	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 18:55	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 18:55	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 18:55	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 18:55	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	166	S1+	35 - 130				05/20/24 16:16	05/21/24 18:55	1
2-Fluorobiphenyl	114		43 - 130				05/20/24 16:16	05/21/24 18:55	1
2-Fluorophenol (Surr)	103		19 - 120				05/20/24 16:16	05/21/24 18:55	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133				05/20/24 16:16	05/21/24 18:55	1
Phenol-d5 (Surr)	76		8 - 124				05/20/24 16:16	05/21/24 18:55	1
p-Terphenyl-d14	100		47 - 130				05/20/24 16:16	05/21/24 18:55	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 16:11	1
<b>1,4-Dioxane</b>	<b>0.882</b>	<b>H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 16:11	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 16:11	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 16:11	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 16:11	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 16:11	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 16:11	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 16:11	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 16:11	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 16:11	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 16:11	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 16:11	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 16:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 16:11	1
<b>BenzyI alcohol</b>	<b>1.43</b>	<b>H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 16:11	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 16:11	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 16:11	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 16:11	1
Butyl benzyI phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 16:11	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 16:11	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 16:11	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 16:11	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 16:11	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 16:11	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 16:11	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 16:11	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 16:11	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 16:11	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 16:11	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 16:11	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 16:11	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 16:11	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:11	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 16:11	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 16:11	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 16:11	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 16:11	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 16:11	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 16:11	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 16:11	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 16:11	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 16:11	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 16:11	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 16:11	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 16:11	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 16:11	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 16:11	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 16:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-2**

**Lab Sample ID: 860-74285-2**

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 16:11	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 16:11	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 16:11	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 16:11	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 16:11	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 16:11	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 16:11	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 16:11	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 16:11	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 16:11	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 16:11	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 16:11	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 16:11	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 16:11	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 16:11	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 16:11	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 16:11	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 16:11	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 16:11	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 16:11	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 16:11	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 16:11	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 16:11	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 16:11	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 16:11	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 16:11	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 16:11	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 16:11	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:11	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:11	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 16:11	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 16:11	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:11	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 16:11	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 16:11	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130	05/24/24 05:36	05/24/24 16:11	1
2-Fluorobiphenyl	94		43 - 130	05/24/24 05:36	05/24/24 16:11	1
2-Fluorophenol (Surr)	108		19 - 120	05/24/24 05:36	05/24/24 16:11	1
Nitrobenzene-d5 (Surr)	177	S1+	37 - 133	05/24/24 05:36	05/24/24 16:11	1
Phenol-d5 (Surr)	77		8 - 124	05/24/24 05:36	05/24/24 16:11	1
p-Terphenyl-d14	91		47 - 130	05/24/24 05:36	05/24/24 16:11	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**  
**Date Collected: 05/13/24 15:03**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-3**  
**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 13:33	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 13:33	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 13:33	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 13:33	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 13:33	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 13:33	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 13:33	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 13:33	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 13:33	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 13:33	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 13:33	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 13:33	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 13:33	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 13:33	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 13:33	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 13:33	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 13:33	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 13:33	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 13:33	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 13:33	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 13:33	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 13:33	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 13:33	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 13:33	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 13:33	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 13:33	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 13:33	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 13:33	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 13:33	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 13:33	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 13:33	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 13:33	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 13:33	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 13:33	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 13:33	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 13:33	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 13:33	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 13:33	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 13:33	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 13:33	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 13:33	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 13:33	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 13:33	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 13:33	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 13:33	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 13:33	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 13:33	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 13:33	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**

**Lab Sample ID: 860-74285-3**

Date Collected: 05/13/24 15:03

Matrix: Water

Date Received: 05/15/24 09:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 13:33	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 13:33	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 13:33	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 13:33	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 13:33	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 13:33	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 13:33	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 13:33	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 13:33	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 13:33	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 13:33	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 13:33	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 13:33	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 13:33	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 13:33	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 13:33	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 13:33	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 13:33	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 13:33	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/18/24 13:33	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/18/24 13:33	1
Dibromofluoromethane (Surr)	99		75 - 131		05/18/24 13:33	1
Toluene-d8 (Surr)	100		80 - 120		05/18/24 13:33	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 19:23	1
<b>1,4-Dioxane</b>	<b>0.513</b>	<b>J</b>	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 19:23	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 19:23	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 19:23	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 19:23	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**

**Lab Sample ID: 860-74285-3**

Date Collected: 05/13/24 15:03

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:23	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 19:23	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 19:23	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 19:23	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 19:23	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 19:23	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 19:23	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 19:23	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 19:23	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 19:23	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 19:23	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 19:23	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 19:23	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 19:23	1
<b>Benzyl alcohol</b>	<b>1.49</b>	<b>I B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 19:23	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 19:23	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 19:23	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 19:23	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 19:23	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 19:23	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 19:23	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 19:23	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 19:23	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 19:23	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 19:23	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 19:23	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 19:23	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 19:23	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 19:23	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 19:23	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 19:23	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 19:23	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:23	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 19:23	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 19:23	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 19:23	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 19:23	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 19:23	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 19:23	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 19:23	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 19:23	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 19:23	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 19:23	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 19:23	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**  
**Date Collected: 05/13/24 15:03**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-3**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 19:23	1
4-Aminobiphenyl	<0.394	U *	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 19:23	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 19:23	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 19:23	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 19:23	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 19:23	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 19:23	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 19:23	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 19:23	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 19:23	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 19:23	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 19:23	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 19:23	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 19:23	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 19:23	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 19:23	1
Diallate Peak 1	<0.0835	U *	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 19:23	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 19:23	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 19:23	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 19:23	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 19:23	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 19:23	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 19:23	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 19:23	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 19:23	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 19:23	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 19:23	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 19:23	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 19:23	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 19:23	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 19:23	1
N-Nitrosopyrrolidine	<0.268	U *	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 19:23	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 19:23	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 19:23	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:23	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:23	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 19:23	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**

**Lab Sample ID: 860-74285-3**

Date Collected: 05/13/24 15:03

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 19:23	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:23	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 19:23	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 19:23	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 19:23	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	133	S1+	35 - 130				05/20/24 16:16	05/21/24 19:23	1
2-Fluorobiphenyl	112		43 - 130				05/20/24 16:16	05/21/24 19:23	1
2-Fluorophenol (Surr)	98		19 - 120				05/20/24 16:16	05/21/24 19:23	1
Nitrobenzene-d5 (Surr)	155	S1+	37 - 133				05/20/24 16:16	05/21/24 19:23	1
Phenol-d5 (Surr)	68		8 - 124				05/20/24 16:16	05/21/24 19:23	1
p-Terphenyl-d14	110		47 - 130				05/20/24 16:16	05/21/24 19:23	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 16:40	1
<b>1,4-Dioxane</b>	<b>0.436</b>	<b>J H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 16:40	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 16:40	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 16:40	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 16:40	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 16:40	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 16:40	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 16:40	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 16:40	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 16:40	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 16:40	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 16:40	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 16:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**  
**Date Collected: 05/13/24 15:03**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-3**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 16:40	1
<b>BenzyI alcohol</b>	<b>1.10</b>	<b>J H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 16:40	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 16:40	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 16:40	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 16:40	1
Butyl benzyI phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 16:40	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 16:40	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 16:40	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 16:40	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 16:40	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 16:40	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 16:40	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 16:40	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 16:40	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 16:40	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 16:40	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 16:40	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 16:40	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 16:40	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:40	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 16:40	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 16:40	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 16:40	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 16:40	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 16:40	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 16:40	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 16:40	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 16:40	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 16:40	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 16:40	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 16:40	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 16:40	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 16:40	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 16:40	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 16:40	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-3**

**Lab Sample ID: 860-74285-3**

Date Collected: 05/13/24 15:03

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 16:40	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 16:40	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 16:40	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 16:40	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 16:40	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 16:40	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 16:40	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 16:40	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 16:40	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 16:40	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 16:40	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 16:40	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 16:40	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 16:40	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 16:40	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 16:40	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 16:40	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 16:40	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 16:40	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 16:40	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 16:40	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 16:40	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 16:40	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 16:40	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 16:40	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 16:40	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 16:40	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 16:40	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:40	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:40	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 16:40	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 16:40	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 16:40	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 16:40	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 16:40	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/24/24 05:36	05/24/24 16:40	1
2-Fluorobiphenyl	112		43 - 130	05/24/24 05:36	05/24/24 16:40	1
2-Fluorophenol (Surr)	87		19 - 120	05/24/24 05:36	05/24/24 16:40	1
Nitrobenzene-d5 (Surr)	175	S1+	37 - 133	05/24/24 05:36	05/24/24 16:40	1
Phenol-d5 (Surr)	61		8 - 124	05/24/24 05:36	05/24/24 16:40	1
p-Terphenyl-d14	112		47 - 130	05/24/24 05:36	05/24/24 16:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: TB-07 051324**

**Lab Sample ID: 860-74285-4**

**Date Collected: 05/13/24 00:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 12:32	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 12:32	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 12:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 12:32	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 12:32	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 12:32	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 12:32	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 12:32	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 12:32	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 12:32	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 12:32	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 12:32	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 12:32	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 12:32	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 12:32	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 12:32	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 12:32	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 12:32	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 12:32	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 12:32	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 12:32	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 12:32	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 12:32	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 12:32	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 12:32	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 12:32	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 12:32	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 12:32	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 12:32	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 12:32	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 12:32	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 12:32	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 12:32	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 12:32	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 12:32	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 12:32	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 12:32	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 12:32	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 12:32	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 12:32	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 12:32	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 12:32	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 12:32	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 12:32	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 12:32	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 12:32	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 12:32	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 12:32	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 12:32	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: TB-07 051324**

**Lab Sample ID: 860-74285-4**

**Date Collected: 05/13/24 00:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 12:32	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 12:32	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 12:32	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 12:32	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 12:32	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 12:32	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 12:32	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 12:32	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 12:32	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 12:32	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 12:32	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 12:32	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 12:32	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 12:32	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 12:32	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 12:32	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 12:32	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 12:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 12:32	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/18/24 12:32	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/18/24 12:32	1
Dibromofluoromethane (Surr)	97		75 - 131		05/18/24 12:32	1
Toluene-d8 (Surr)	100		80 - 120		05/18/24 12:32	1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 14:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 14:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 14:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 14:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 14:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 14:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 14:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 14:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 14:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 14:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 14:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 14:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 14:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 14:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 14:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 14:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 14:14	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 14:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 14:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 14:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 14:14	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 14:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 14:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 14:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 14:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 14:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 14:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 14:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 14:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 14:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 14:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 14:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 14:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 14:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 14:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 14:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 14:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 14:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 14:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 14:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 14:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 14:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 14:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 14:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 14:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 14:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 14:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 14:14	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 14:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 14:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 14:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 14:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 14:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 14:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 14:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 14:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 14:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 14:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 14:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 14:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 14:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 14:14	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 14:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 14:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 14:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 14:14	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 14:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 14:14	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144					05/18/24 14:14	1
4-Bromofluorobenzene (Surr)	99		74 - 124					05/18/24 14:14	1
Dibromofluoromethane (Surr)	98		75 - 131					05/18/24 14:14	1
Toluene-d8 (Surr)	101		80 - 120					05/18/24 14:14	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 19:52	1
<b>1,4-Dioxane</b>	<b>0.210</b>	<b>J I</b>	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 19:52	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 19:52	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 19:52	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 19:52	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 19:52	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 19:52	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 19:52	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 19:52	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 19:52	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 19:52	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 19:52	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 19:52	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 19:52	1
<b>Benzyl alcohol</b>	<b>1.02</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 19:52	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 19:52	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 19:52	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 19:52	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 19:52	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 19:52	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 19:52	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 19:52	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 19:52	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 19:52	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 19:52	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 19:52	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 19:52	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 19:52	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 19:52	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 19:52	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 19:52	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 19:52	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:52	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 19:52	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 19:52	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 19:52	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 19:52	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 19:52	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 19:52	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 19:52	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 19:52	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 19:52	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 19:52	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 19:52	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 19:52	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 19:52	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Acetylaminofluorene	<1.26	U *+	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 19:52	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 19:52	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 19:52	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 19:52	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 19:52	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 19:52	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 19:52	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 19:52	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 19:52	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 19:52	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 19:52	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 19:52	1
Diallate Peak 1	<0.0835	U *	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 19:52	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 19:52	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 19:52	1
Dinoseb	<0.570	U *+	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 19:52	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 19:52	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 19:52	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 19:52	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 19:52	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 19:52	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 19:52	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 19:52	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 19:52	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 19:52	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 19:52	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 19:52	1
N-Nitrosopyrrolidine	<0.268	U *	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 19:52	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 19:52	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 19:52	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:52	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:52	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 19:52	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 19:52	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 19:52	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 19:52	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 19:52	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/20/24 16:16	05/21/24 19:52	1
2-Fluorobiphenyl	100		43 - 130	05/20/24 16:16	05/21/24 19:52	1
2-Fluorophenol (Surr)	96		19 - 120	05/20/24 16:16	05/21/24 19:52	1
Nitrobenzene-d5 (Surr)	154	S1+	37 - 133	05/20/24 16:16	05/21/24 19:52	1
Phenol-d5 (Surr)	65		8 - 124	05/20/24 16:16	05/21/24 19:52	1
p-Terphenyl-d14	92		47 - 130	05/20/24 16:16	05/21/24 19:52	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 17:08	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 17:08	1
<b>1,4-Dioxane</b>	<b>0.147</b>	<b>J H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 17:08	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 17:08	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 17:08	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 17:08	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 17:08	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 17:08	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 17:08	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 17:08	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 17:08	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 17:08	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 17:08	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 17:08	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 17:08	1
<b>Benzyl alcohol</b>	<b>2.03</b>	<b>H B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 17:08	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 17:08	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 17:08	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 17:08	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 17:08	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 17:08	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 17:08	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 17:08	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 17:08	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 17:08	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 17:08	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 17:08	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 17:08	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 17:08	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 17:08	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 17:08	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 17:08	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 17:08	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:08	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 17:08	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 17:08	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 17:08	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 17:08	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 17:08	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 17:08	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 17:08	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 17:08	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 17:08	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 17:08	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 17:08	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 17:08	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 17:08	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Acetylaminofluorene	<1.26	U ** H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 17:08	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 17:08	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 17:08	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 17:08	1
3-Methylcholanthrene	<0.104	U H *	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 17:08	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 17:08	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 17:08	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 17:08	1
Aramite Peak 1	<0.0785	U H **	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 17:08	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 17:08	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 17:08	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 17:08	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 17:08	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 17:08	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 17:08	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 17:08	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 17:08	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 17:08	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 17:08	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-10**

**Lab Sample ID: 860-74285-5**

**Date Collected: 05/14/24 11:29**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 17:08	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 17:08	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 17:08	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 17:08	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 17:08	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 17:08	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 17:08	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 17:08	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 17:08	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 17:08	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 17:08	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:08	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:08	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 17:08	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 17:08	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:08	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 17:08	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 17:08	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	125		35 - 130	05/24/24 05:36	05/24/24 17:08	1
2-Fluorobiphenyl	91		43 - 130	05/24/24 05:36	05/24/24 17:08	1
2-Fluorophenol (Surr)	99		19 - 120	05/24/24 05:36	05/24/24 17:08	1
Nitrobenzene-d5 (Surr)	157	S1+	37 - 133	05/24/24 05:36	05/24/24 17:08	1
Phenol-d5 (Surr)	71		8 - 124	05/24/24 05:36	05/24/24 17:08	1
p-Terphenyl-d14	75		47 - 130	05/24/24 05:36	05/24/24 17:08	1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

**Date Collected: 05/14/24 13:41**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 14:35	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 14:35	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 14:35	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 14:35	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 14:35	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 14:35	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 14:35	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 14:35	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 14:35	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 14:35	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

**Date Collected: 05/14/24 13:41**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 14:35	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 14:35	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 14:35	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 14:35	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 14:35	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 14:35	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 14:35	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 14:35	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 14:35	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 14:35	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 14:35	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 14:35	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 14:35	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 14:35	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 14:35	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 14:35	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 14:35	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 14:35	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 14:35	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 14:35	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 14:35	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 14:35	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 14:35	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 14:35	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 14:35	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 14:35	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 14:35	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 14:35	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 14:35	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 14:35	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 14:35	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 14:35	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 14:35	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 14:35	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 14:35	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 14:35	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 14:35	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 14:35	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 14:35	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 14:35	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 14:35	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 14:35	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 14:35	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 14:35	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 14:35	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 14:35	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 14:35	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 14:35	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 14:35	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

**Date Collected: 05/14/24 13:41**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 14:35	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 14:35	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 14:35	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 14:35	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 14:35	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 14:35	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 14:35	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 14:35	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 14:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					05/18/24 14:35	1
4-Bromofluorobenzene (Surr)	101		74 - 124					05/18/24 14:35	1
Dibromofluoromethane (Surr)	102		75 - 131					05/18/24 14:35	1
Toluene-d8 (Surr)	101		80 - 120					05/18/24 14:35	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 20:21	1
<b>1,4-Dioxane</b>	<b>0.158</b>	<b>J I</b>	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 20:21	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 20:21	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 20:21	1
4,6-Dinitro-2-methylphenol	<0.201	U *	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 20:21	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 20:21	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 20:21	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 20:21	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 20:21	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 20:21	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 20:21	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

**Date Collected: 05/14/24 13:41**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 20:21	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 20:21	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 20:21	1
<b>Benzy alcohol</b>	<b>1.35</b>	<b>I B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 20:21	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 20:21	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 20:21	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 20:21	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 20:21	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 20:21	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 20:21	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 20:21	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 20:21	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 20:21	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 20:21	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 20:21	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 20:21	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 20:21	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 20:21	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 20:21	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 20:21	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 20:21	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:21	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 20:21	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 20:21	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 20:21	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 20:21	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 20:21	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 20:21	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 20:21	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 20:21	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 20:21	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 20:21	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 20:21	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 20:21	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 20:21	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 20:21	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

**Date Collected: 05/14/24 13:41**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 20:21	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 20:21	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 20:21	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 20:21	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 20:21	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 20:21	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 20:21	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 20:21	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 20:21	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 20:21	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 20:21	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 20:21	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 20:21	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 20:21	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 20:21	1
Dinoseb	<0.570	U *+	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 20:21	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 20:21	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 20:21	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 20:21	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 20:21	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 20:21	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 20:21	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 20:21	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 20:21	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 20:21	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 20:21	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 20:21	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 20:21	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 20:21	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 20:21	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:21	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:21	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 20:21	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 20:21	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:21	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 20:21	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 20:21	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	131	S1+	35 - 130	05/20/24 16:16	05/21/24 20:21	1
2-Fluorobiphenyl	88		43 - 130	05/20/24 16:16	05/21/24 20:21	1
2-Fluorophenol (Surr)	88		19 - 120	05/20/24 16:16	05/21/24 20:21	1
Nitrobenzene-d5 (Surr)	159	S1+	37 - 133	05/20/24 16:16	05/21/24 20:21	1
Phenol-d5 (Surr)	60		8 - 124	05/20/24 16:16	05/21/24 20:21	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

Date Collected: 05/14/24 13:41

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	87		47 - 130	05/20/24 16:16	05/21/24 20:21	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 17:37	1
<b>1,4-Dioxane</b>	<b>0.142</b>	<b>J H I</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 17:37	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 17:37	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 17:37	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 17:37	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 17:37	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 17:37	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 17:37	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 17:37	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 17:37	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 17:37	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 17:37	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 17:37	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 17:37	1
<b>Benzyl alcohol</b>	<b>0.789</b>	<b>J H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 17:37	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 17:37	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 17:37	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 17:37	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 17:37	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 17:37	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 17:37	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 17:37	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 17:37	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 17:37	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

**Date Collected: 05/14/24 13:41**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 17:37	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 17:37	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 17:37	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 17:37	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 17:37	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 17:37	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 17:37	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 17:37	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:37	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 17:37	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 17:37	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 17:37	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 17:37	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 17:37	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 17:37	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 17:37	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 17:37	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 17:37	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 17:37	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *-	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 17:37	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 17:37	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 17:37	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Acetylaminofluorene	<1.26	U ** H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 17:37	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 17:37	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 17:37	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 17:37	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 17:37	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 17:37	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 17:37	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 17:37	1
Aramite Peak 1	<0.0785	U H *-	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 17:37	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 17:37	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 17:37	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 17:37	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 17:37	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-11**

**Lab Sample ID: 860-74285-6**

Date Collected: 05/14/24 13:41

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 17:37	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 17:37	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 17:37	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 17:37	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 17:37	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 17:37	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 17:37	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 17:37	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 17:37	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 17:37	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 17:37	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 17:37	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 17:37	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 17:37	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 17:37	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 17:37	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 17:37	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:37	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:37	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 17:37	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 17:37	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 17:37	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 17:37	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 17:37	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	163	S1+	35 - 130	05/24/24 05:36	05/24/24 17:37	1
2-Fluorobiphenyl	112		43 - 130	05/24/24 05:36	05/24/24 17:37	1
2-Fluorophenol (Surr)	72		19 - 120	05/24/24 05:36	05/24/24 17:37	1
Nitrobenzene-d5 (Surr)	181	S1+	37 - 133	05/24/24 05:36	05/24/24 17:37	1
Phenol-d5 (Surr)	48		8 - 124	05/24/24 05:36	05/24/24 17:37	1
p-Terphenyl-d14	123		47 - 130	05/24/24 05:36	05/24/24 17:37	1

**Client Sample ID: RB-01**

**Lab Sample ID: 860-74285-7**

Date Collected: 05/14/24 13:55

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 14:55	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 14:55	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 14:55	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 14:55	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**

**Lab Sample ID: 860-74285-7**

**Date Collected: 05/14/24 13:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 14:55	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 14:55	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 14:55	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 14:55	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 14:55	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 14:55	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 14:55	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 14:55	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 14:55	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 14:55	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 14:55	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 14:55	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 14:55	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 14:55	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 14:55	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 14:55	1
<b>Acetone</b>	<b>6.40</b>	<b>J</b>	100	3.07	ug/L			05/18/24 14:55	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 14:55	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 14:55	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 14:55	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 14:55	1
<b>Benzene</b>	<b>0.742</b>	<b>J</b>	1.00	0.460	ug/L			05/18/24 14:55	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 14:55	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 14:55	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 14:55	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 14:55	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 14:55	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 14:55	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 14:55	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 14:55	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 14:55	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 14:55	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 14:55	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 14:55	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 14:55	1
<b>Cumene (isopropylbenzene)</b>	<b>6.43</b>		1.00	0.592	ug/L			05/18/24 14:55	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 14:55	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 14:55	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 14:55	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 14:55	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 14:55	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 14:55	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 14:55	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 14:55	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 14:55	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 14:55	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 14:55	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 14:55	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 14:55	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**

**Lab Sample ID: 860-74285-7**

Date Collected: 05/14/24 13:55

Matrix: Water

Date Received: 05/15/24 09:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 14:55	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 14:55	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 14:55	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 14:55	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 14:55	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 14:55	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 14:55	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 14:55	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 14:55	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 14:55	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 14:55	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 14:55	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 14:55	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 14:55	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 14:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					05/18/24 14:55	1
4-Bromofluorobenzene (Surr)	99		74 - 124					05/18/24 14:55	1
Dibromofluoromethane (Surr)	98		75 - 131					05/18/24 14:55	1
Toluene-d8 (Surr)	98		80 - 120					05/18/24 14:55	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 17:57	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 17:57	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 17:57	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 17:57	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**  
**Date Collected: 05/14/24 13:55**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-7**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 17:57	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 17:57	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 17:57	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 17:57	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 17:57	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 17:57	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 17:57	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 17:57	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 17:57	1
<b>Benzyl alcohol</b>	<b>1.32</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 17:57	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 17:57	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 17:57	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 17:57	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 17:57	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 17:57	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 17:57	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 17:57	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 17:57	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 17:57	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 17:57	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 17:57	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 17:57	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 17:57	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 17:57	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 17:57	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 17:57	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 17:57	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 17:57	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 17:57	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 17:57	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 17:57	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 17:57	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 17:57	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 17:57	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 17:57	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 17:57	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 17:57	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 17:57	1
<b>Diphenyl ether</b>	<b>0.0956</b>	<b>J</b>	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 17:57	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 17:57	1

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**  
**Date Collected: 05/14/24 13:55**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-7**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 17:57	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 17:57	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 17:57	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 17:57	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 17:57	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 17:57	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 17:57	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 17:57	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 17:57	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 17:57	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 17:57	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 17:57	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 17:57	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 17:57	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 17:57	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 17:57	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 17:57	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 17:57	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 17:57	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 17:57	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 17:57	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 17:57	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 17:57	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 17:57	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 17:57	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 17:57	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 17:57	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 17:57	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 17:57	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 17:57	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 17:57	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 17:57	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 17:57	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 17:57	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 17:57	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 17:57	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 17:57	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 17:57	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 17:57	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 17:57	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**  
**Date Collected: 05/14/24 13:55**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-7**  
**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	136	S1+	35 - 130	05/20/24 16:16	05/21/24 17:57	1
2-Fluorobiphenyl	114		43 - 130	05/20/24 16:16	05/21/24 17:57	1
2-Fluorophenol (Surr)	75		19 - 120	05/20/24 16:16	05/21/24 17:57	1
Nitrobenzene-d5 (Surr)	179	S1+	37 - 133	05/20/24 16:16	05/21/24 17:57	1
Phenol-d5 (Surr)	73		8 - 124	05/20/24 16:16	05/21/24 17:57	1
p-Terphenyl-d14	113		47 - 130	05/20/24 16:16	05/21/24 17:57	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,4-Dioxane	<0.0890	U H	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 18:06	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 18:06	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 18:06	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 18:06	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 18:06	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 18:06	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 18:06	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 18:06	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 18:06	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 18:06	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 18:06	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 18:06	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 18:06	1
<b>Benzyl alcohol</b>	<b>1.31</b>	<b>H B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 18:06	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 18:06	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 18:06	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 18:06	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 18:06	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 18:06	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**

**Lab Sample ID: 860-74285-7**

Date Collected: 05/14/24 13:55

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 18:06	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 18:06	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 18:06	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 18:06	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 18:06	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 18:06	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 18:06	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 18:06	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 18:06	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 18:06	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 18:06	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 18:06	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:06	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 18:06	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 18:06	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 18:06	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 18:06	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 18:06	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 18:06	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 18:06	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 18:06	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 18:06	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 18:06	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *-	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 18:06	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 18:06	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 18:06	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 18:06	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 18:06	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 18:06	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 18:06	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 18:06	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 18:06	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 18:06	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 18:06	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 18:06	1

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: RB-01**  
Date Collected: 05/14/24 13:55  
Date Received: 05/15/24 09:30

**Lab Sample ID: 860-74285-7**  
Matrix: Water

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 18:06	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 18:06	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 18:06	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 18:06	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 18:06	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 18:06	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 18:06	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 18:06	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 18:06	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 18:06	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 18:06	1
Hexachloropropene	<0.300	U H *	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 18:06	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 18:06	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 18:06	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 18:06	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 18:06	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 18:06	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 18:06	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 18:06	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 18:06	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 18:06	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:06	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:06	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 18:06	1
p-Phenylene diamine	<0.500	U H *	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 18:06	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:06	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 18:06	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 18:06	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119		35 - 130	05/24/24 05:36	05/24/24 18:06	1
2-Fluorobiphenyl	91		43 - 130	05/24/24 05:36	05/24/24 18:06	1
2-Fluorophenol (Surr)	65		19 - 120	05/24/24 05:36	05/24/24 18:06	1
Nitrobenzene-d5 (Surr)	155	S1+	37 - 133	05/24/24 05:36	05/24/24 18:06	1
Phenol-d5 (Surr)	62		8 - 124	05/24/24 05:36	05/24/24 18:06	1
p-Terphenyl-d14	93		47 - 130	05/24/24 05:36	05/24/24 18:06	1

**Client Sample ID: MW-12**  
Date Collected: 05/14/24 14:37  
Date Received: 05/15/24 09:30

**Lab Sample ID: 860-74285-8**  
Matrix: Water

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 15:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

**Date Collected: 05/14/24 14:37**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 15:16	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 15:16	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 15:16	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 15:16	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 15:16	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 15:16	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 15:16	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 15:16	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 15:16	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 15:16	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 15:16	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 15:16	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 15:16	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 15:16	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 15:16	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 15:16	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 15:16	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 15:16	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 15:16	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 15:16	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 15:16	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 15:16	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 15:16	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 15:16	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 15:16	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 15:16	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 15:16	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 15:16	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 15:16	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 15:16	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 15:16	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 15:16	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 15:16	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 15:16	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 15:16	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 15:16	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 15:16	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 15:16	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 15:16	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 15:16	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 15:16	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 15:16	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 15:16	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 15:16	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 15:16	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 15:16	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 15:16	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 15:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

**Date Collected: 05/14/24 14:37**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 15:16	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 15:16	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 15:16	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 15:16	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 15:16	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 15:16	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 15:16	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 15:16	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 15:16	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 15:16	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 15:16	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 15:16	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 15:16	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 15:16	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 15:16	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 15:16	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 15:16	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 15:16	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		05/18/24 15:16	1
4-Bromofluorobenzene (Surr)	102		74 - 124		05/18/24 15:16	1
Dibromofluoromethane (Surr)	99		75 - 131		05/18/24 15:16	1
Toluene-d8 (Surr)	101		80 - 120		05/18/24 15:16	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 20:49	1
<b>1,4-Dioxane</b>	<b>0.141</b>	<b>J</b>	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 20:49	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 20:49	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 20:49	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 20:49	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:49	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

Date Collected: 05/14/24 14:37

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 20:49	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 20:49	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 20:49	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 20:49	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 20:49	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 20:49	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 20:49	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 20:49	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 20:49	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 20:49	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 20:49	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 20:49	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 20:49	1
<b>Benzyl alcohol</b>	<b>1.35</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 20:49	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 20:49	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 20:49	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 20:49	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 20:49	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 20:49	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 20:49	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 20:49	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 20:49	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 20:49	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 20:49	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 20:49	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 20:49	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 20:49	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 20:49	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 20:49	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 20:49	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 20:49	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:49	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 20:49	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 20:49	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 20:49	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 20:49	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 20:49	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 20:49	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 20:49	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 20:49	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 20:49	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 20:49	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 20:49	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

**Date Collected: 05/14/24 14:37**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 20:49	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 20:49	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 20:49	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 20:49	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 20:49	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 20:49	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 20:49	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 20:49	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 20:49	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 20:49	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 20:49	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 20:49	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 20:49	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 20:49	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 20:49	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 20:49	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 20:49	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 20:49	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 20:49	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 20:49	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 20:49	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 20:49	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 20:49	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 20:49	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 20:49	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 20:49	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 20:49	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 20:49	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 20:49	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 20:49	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 20:49	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 20:49	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 20:49	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:49	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:49	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 20:49	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 20:49	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

**Date Collected: 05/14/24 14:37**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 20:49	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 20:49	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 20:49	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 20:49	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	212	S1+	35 - 130				05/20/24 16:16	05/21/24 20:49	1
2-Fluorobiphenyl	168	S1+	43 - 130				05/20/24 16:16	05/21/24 20:49	1
2-Fluorophenol (Surr)	144	S1+	19 - 120				05/20/24 16:16	05/21/24 20:49	1
Nitrobenzene-d5 (Surr)	248	S1+	37 - 133				05/20/24 16:16	05/21/24 20:49	1
Phenol-d5 (Surr)	99		8 - 124				05/20/24 16:16	05/21/24 20:49	1
p-Terphenyl-d14	150	S1+	47 - 130				05/20/24 16:16	05/21/24 20:49	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 18:34	1
<b>1,4-Dioxane</b>	<b>0.144</b>	<b>J H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 18:34	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 18:34	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 18:34	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 18:34	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 18:34	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 18:34	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 18:34	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 18:34	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 18:34	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 18:34	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 18:34	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 18:34	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 18:34	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

Date Collected: 05/14/24 14:37

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzyl alcohol</b>	<b>1.07</b>	<b>J H B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 18:34	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 18:34	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 18:34	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 18:34	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 18:34	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 18:34	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 18:34	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 18:34	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 18:34	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 18:34	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 18:34	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 18:34	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 18:34	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 18:34	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 18:34	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 18:34	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 18:34	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 18:34	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:34	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 18:34	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 18:34	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 18:34	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 18:34	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 18:34	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 18:34	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 18:34	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 18:34	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 18:34	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 18:34	1
Diphenyl ether	<0.0910	U H	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 18:34	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 18:34	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 18:34	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 18:34	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 18:34	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 18:34	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-12**

**Lab Sample ID: 860-74285-8**

Date Collected: 05/14/24 14:37

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 18:34	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 18:34	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 18:34	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 18:34	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 18:34	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 18:34	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 18:34	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 18:34	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 18:34	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 18:34	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 18:34	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 18:34	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 18:34	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 18:34	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 18:34	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 18:34	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 18:34	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 18:34	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 18:34	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 18:34	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 18:34	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 18:34	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 18:34	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 18:34	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 18:34	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 18:34	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 18:34	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:34	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:34	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 18:34	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 18:34	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 18:34	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 18:34	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 18:34	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	142	S1+	35 - 130	05/24/24 05:36	05/24/24 18:34	1
2-Fluorobiphenyl	113		43 - 130	05/24/24 05:36	05/24/24 18:34	1
2-Fluorophenol (Surr)	87		19 - 120	05/24/24 05:36	05/24/24 18:34	1
Nitrobenzene-d5 (Surr)	174	S1+	37 - 133	05/24/24 05:36	05/24/24 18:34	1
Phenol-d5 (Surr)	58		8 - 124	05/24/24 05:36	05/24/24 18:34	1
p-Terphenyl-d14	81		47 - 130	05/24/24 05:36	05/24/24 18:34	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 15:36	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 15:36	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 15:36	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 15:36	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 15:36	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 15:36	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 15:36	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 15:36	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 15:36	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 15:36	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 15:36	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 15:36	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 15:36	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 15:36	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 15:36	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 15:36	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 15:36	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 15:36	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 15:36	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 15:36	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 15:36	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 15:36	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 15:36	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 15:36	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 15:36	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 15:36	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 15:36	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 15:36	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 15:36	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 15:36	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 15:36	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 15:36	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 15:36	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 15:36	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 15:36	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 15:36	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 15:36	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 15:36	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 15:36	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 15:36	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 15:36	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 15:36	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 15:36	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 15:36	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 15:36	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 15:36	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 15:36	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 15:36	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 15:36	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 15:36	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 15:36	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 15:36	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 15:36	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 15:36	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 15:36	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 15:36	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 15:36	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 15:36	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 15:36	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 15:36	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 15:36	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 15:36	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 15:36	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 15:36	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 15:36	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 15:36	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 15:36	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/18/24 15:36	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/18/24 15:36	1
Dibromofluoromethane (Surr)	102		75 - 131		05/18/24 15:36	1
Toluene-d8 (Surr)	98		80 - 120		05/18/24 15:36	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 21:18	1
<b>1,4-Dioxane</b>	<b>0.246</b>	<b>J</b>	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 21:18	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 21:18	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 21:18	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 21:18	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 21:18	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 21:18	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 21:18	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 21:18	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 21:18	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 21:18	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 21:18	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 21:18	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 21:18	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 21:18	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 21:18	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 21:18	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 21:18	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 21:18	1
<b>Benzyl alcohol</b>	<b>1.28</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 21:18	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 21:18	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 21:18	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 21:18	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 21:18	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 21:18	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 21:18	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 21:18	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 21:18	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 21:18	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 21:18	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 21:18	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 21:18	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 21:18	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 21:18	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 21:18	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 21:18	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 21:18	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 21:18	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 21:18	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 21:18	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 21:18	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 21:18	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 21:18	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 21:18	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 21:18	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 21:18	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 21:18	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 21:18	1
<b>Diphenyl ether</b>	<b>0.125</b>	<b>J</b>	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 21:18	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 21:18	1
4-Aminobiphenyl	<0.394	U *	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 21:18	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 21:18	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 21:18	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Naphthylamine	<0.288	U *	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 21:18	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 21:18	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 21:18	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 21:18	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 21:18	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 21:18	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 21:18	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 21:18	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 21:18	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 21:18	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 21:18	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 21:18	1
Diallate Peak 1	<0.0835	U *	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 21:18	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 21:18	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 21:18	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 21:18	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 21:18	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 21:18	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 21:18	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 21:18	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 21:18	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 21:18	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 21:18	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 21:18	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 21:18	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 21:18	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 21:18	1
N-Nitrosopyrrolidine	<0.268	U *	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 21:18	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 21:18	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 21:18	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 21:18	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 21:18	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 21:18	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 21:18	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 21:18	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 21:18	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 21:18	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 21:18	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130				05/20/24 16:16	05/21/24 21:18	1
2-Fluorobiphenyl	118		43 - 130				05/20/24 16:16	05/21/24 21:18	1
2-Fluorophenol (Surr)	103		19 - 120				05/20/24 16:16	05/21/24 21:18	1
Nitrobenzene-d5 (Surr)	172	S1+	37 - 133				05/20/24 16:16	05/21/24 21:18	1
Phenol-d5 (Surr)	62		8 - 124				05/20/24 16:16	05/21/24 21:18	1
p-Terphenyl-d14	105		47 - 130				05/20/24 16:16	05/21/24 21:18	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 19:03	1
<b>1,4-Dioxane</b>	<b>0.254</b>	<b>J H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 19:03	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 19:03	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 19:03	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 19:03	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 19:03	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 19:03	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 19:03	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 19:03	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 19:03	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 19:03	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 19:03	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 19:03	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 19:03	1
<b>Benzy alcohol</b>	<b>1.19</b>	<b>H B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 19:03	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 19:03	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 19:03	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 19:03	1
Butyl benzy phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 19:03	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 19:03	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 19:03	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 19:03	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 19:03	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 19:03	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 19:03	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 19:03	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 19:03	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 19:03	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 19:03	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 19:03	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 19:03	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 19:03	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:03	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 19:03	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 19:03	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 19:03	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 19:03	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 19:03	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 19:03	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 19:03	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 19:03	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 19:03	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 19:03	1
<b>Diphenyl ether</b>	<b>0.134</b>	<b>J H</b>	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 19:03	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 19:03	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 19:03	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 19:03	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 19:03	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-24**

**Lab Sample ID: 860-74285-9**

**Date Collected: 05/13/24 12:54**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 19:03	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 19:03	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 19:03	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 19:03	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 19:03	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 19:03	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 19:03	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 19:03	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 19:03	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 19:03	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 19:03	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 19:03	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 19:03	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 19:03	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 19:03	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 19:03	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 19:03	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 19:03	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 19:03	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 19:03	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 19:03	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 19:03	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 19:03	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 19:03	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 19:03	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 19:03	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 19:03	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 19:03	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:03	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:03	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 19:03	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 19:03	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:03	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 19:03	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 19:03	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130	05/24/24 05:36	05/24/24 19:03	1
2-Fluorobiphenyl	103		43 - 130	05/24/24 05:36	05/24/24 19:03	1
2-Fluorophenol (Surr)	90		19 - 120	05/24/24 05:36	05/24/24 19:03	1
Nitrobenzene-d5 (Surr)	167	S1+	37 - 133	05/24/24 05:36	05/24/24 19:03	1
Phenol-d5 (Surr)	61		8 - 124	05/24/24 05:36	05/24/24 19:03	1
p-Terphenyl-d14	82		47 - 130	05/24/24 05:36	05/24/24 19:03	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

Date Collected: 05/13/24 14:03

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 17:19	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 17:19	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 17:19	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 17:19	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 17:19	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 17:19	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 17:19	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 17:19	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 17:19	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 17:19	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 17:19	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 17:19	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 17:19	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 17:19	1
<b>2,2,4-Trimethylpentane</b>	<b>19.9</b>		5.00	0.500	ug/L			05/18/24 17:19	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 17:19	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 17:19	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 17:19	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 17:19	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 17:19	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 17:19	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 17:19	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 17:19	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 17:19	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 17:19	1
<b>Benzene</b>	<b>0.623</b>	<b>J</b>	1.00	0.460	ug/L			05/18/24 17:19	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 17:19	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 17:19	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 17:19	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 17:19	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 17:19	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 17:19	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 17:19	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 17:19	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 17:19	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 17:19	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 17:19	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 17:19	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 17:19	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 17:19	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 17:19	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 17:19	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 17:19	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 17:19	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 17:19	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 17:19	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 17:19	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 17:19	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 17:19	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 17:19	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 17:19	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 17:19	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 17:19	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 17:19	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 17:19	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 17:19	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 17:19	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 17:19	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 17:19	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 17:19	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 17:19	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 17:19	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 17:19	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 17:19	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 17:19	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 17:19	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 17:19	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/18/24 17:19	1
4-Bromofluorobenzene (Surr)	103		74 - 124		05/18/24 17:19	1
Dibromofluoromethane (Surr)	98		75 - 131		05/18/24 17:19	1
Toluene-d8 (Surr)	101		80 - 120		05/18/24 17:19	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>1,2-Dichlorobenzene</b>	<b>0.349</b>	<b>J</b>	0.571	0.0941	ug/L		05/20/24 16:16	05/22/24 07:14	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>1,4-Dichlorobenzene</b>	<b>0.111</b>	<b>J</b>	0.571	0.0779	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>1,4-Dioxane</b>	<b>2.46</b>		0.571	0.0890	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>2-Methylnaphthalene</b>	<b>1.06</b>		0.571	0.0603	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/22/24 07:14	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/22/24 07:14	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/22/24 07:14	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/22/24 07:14	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:14	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 07:14	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 07:14	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/22/24 07:14	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/22/24 07:14	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 07:14	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/22/24 07:14	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/22/24 07:14	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/22/24 07:14	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/22/24 07:14	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/22/24 07:14	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/22/24 07:14	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/22/24 07:14	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>Benzyl alcohol</b>	<b>1.41</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/28/24 14:44	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/22/24 07:14	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/22/24 07:14	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/22/24 07:14	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 07:14	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/22/24 07:14	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>Dibenzofuran</b>	<b>3.97</b>		0.571	0.107	ug/L		05/20/24 16:16	05/22/24 07:14	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/22/24 07:14	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/22/24 07:14	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/22/24 07:14	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/22/24 07:14	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>Fluorene</b>	<b>0.172</b>	<b>J</b>	0.571	0.0948	ug/L		05/20/24 16:16	05/22/24 07:14	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/22/24 07:14	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/22/24 07:14	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/22/24 07:14	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 07:14	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:14	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>Naphthalene</b>	<b>19.5</b>		0.571	0.0944	ug/L		05/20/24 16:16	05/22/24 07:14	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/22/24 07:14	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/22/24 07:14	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/22/24 07:14	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/22/24 07:14	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/22/24 07:14	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/22/24 07:14	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/22/24 07:14	1
<b>Diphenyl ether</b>	<b>9430</b>	<b>H</b>	286	45.5	ug/L		05/24/24 05:36	05/28/24 13:47	500
<b>1,1'-Biphenyl</b>	<b>2090</b>	<b>H</b>	286	49.1	ug/L		05/24/24 05:36	05/28/24 13:47	500

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/22/24 07:14	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/22/24 07:14	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 07:14	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/22/24 07:14	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/22/24 07:14	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 07:14	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Acetylaminofluorene	<1.26	U **+	2.86	1.26	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/22/24 07:14	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/22/24 07:14	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/22/24 07:14	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/22/24 07:14	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 07:14	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/22/24 07:14	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 07:14	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/22/24 07:14	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/22/24 07:14	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 07:14	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 07:14	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 07:14	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 07:14	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 07:14	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/22/24 07:14	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/22/24 07:14	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/22/24 07:14	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/22/24 07:14	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/22/24 07:14	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/22/24 07:14	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 07:14	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/22/24 07:14	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 07:14	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/22/24 07:14	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/22/24 07:14	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/22/24 07:14	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/22/24 07:14	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/22/24 07:14	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/20/24 16:16	05/22/24 07:14	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:14	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:14	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/22/24 07:14	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 07:14	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:14	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/22/24 07:14	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/22/24 07:14	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/22/24 07:14	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	157	S1+	35 - 130				05/20/24 16:16	05/22/24 07:14	1
2,4,6-Tribromophenol (Surr)	44858	S1+	35 - 130				05/24/24 05:36	05/28/24 13:47	500
2,4,6-Tribromophenol (Surr)	197	S1+	35 - 130				05/20/24 16:16	05/28/24 14:44	1
2-Fluorobiphenyl	114		43 - 130				05/20/24 16:16	05/22/24 07:14	1
2-Fluorobiphenyl	651	S1+	43 - 130				05/24/24 05:36	05/28/24 13:47	500
2-Fluorobiphenyl	106		43 - 130				05/20/24 16:16	05/28/24 14:44	1
2-Fluorophenol (Surr)	100		19 - 120				05/20/24 16:16	05/22/24 07:14	1
2-Fluorophenol (Surr)	765	S1+	19 - 120				05/24/24 05:36	05/28/24 13:47	500
2-Fluorophenol (Surr)	86		19 - 120				05/20/24 16:16	05/28/24 14:44	1
Nitrobenzene-d5 (Surr)	170	S1+	37 - 133				05/20/24 16:16	05/22/24 07:14	1
Nitrobenzene-d5 (Surr)	1174	S1+	37 - 133				05/24/24 05:36	05/28/24 13:47	500
Nitrobenzene-d5 (Surr)	133		37 - 133				05/20/24 16:16	05/28/24 14:44	1
Phenol-d5 (Surr)	68		8 - 124				05/20/24 16:16	05/22/24 07:14	1
Phenol-d5 (Surr)	1045	S1+	8 - 124				05/24/24 05:36	05/28/24 13:47	500
Phenol-d5 (Surr)	64		8 - 124				05/20/24 16:16	05/28/24 14:44	1
p-Terphenyl-d14	125		47 - 130				05/20/24 16:16	05/22/24 07:14	1
p-Terphenyl-d14	109		47 - 130				05/24/24 05:36	05/28/24 13:47	500
p-Terphenyl-d14	113		47 - 130				05/20/24 16:16	05/28/24 14:44	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	35.4		28.6	4.48	ug/L		05/20/24 16:16	05/23/24 19:28	10

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		35 - 130				05/20/24 16:16	05/23/24 19:28	10
2-Fluorobiphenyl	105		43 - 130				05/20/24 16:16	05/23/24 19:28	10
2-Fluorophenol (Surr)	89		19 - 120				05/20/24 16:16	05/23/24 19:28	10
Nitrobenzene-d5 (Surr)	127		37 - 133				05/20/24 16:16	05/23/24 19:28	10
Phenol-d5 (Surr)	71		8 - 124				05/20/24 16:16	05/23/24 19:28	10
p-Terphenyl-d14	107		47 - 130				05/20/24 16:16	05/23/24 19:28	10

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	8240		571	91.0	ug/L		05/20/24 16:16	05/22/24 10:48	1000
1,1'-Biphenyl	1990		571	98.1	ug/L		05/20/24 16:16	05/22/24 10:48	1000

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		35 - 130				05/20/24 16:16	05/22/24 10:48	1000
2-Fluorobiphenyl	272	S1+	43 - 130				05/20/24 16:16	05/22/24 10:48	1000
2-Fluorophenol (Surr)	520	S1+	19 - 120				05/20/24 16:16	05/22/24 10:48	1000
Nitrobenzene-d5 (Surr)	466	S1+	37 - 133				05/20/24 16:16	05/22/24 10:48	1000
Phenol-d5 (Surr)	734	S1+	8 - 124				05/20/24 16:16	05/22/24 10:48	1000
p-Terphenyl-d14	68		47 - 130				05/20/24 16:16	05/22/24 10:48	1000

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/20/24 16:16	05/23/24 13:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	184	S1+	35 - 130				05/20/24 16:16	05/23/24 13:17	1
2-Fluorobiphenyl	110		43 - 130				05/20/24 16:16	05/23/24 13:17	1
2-Fluorophenol (Surr)	99		19 - 120				05/20/24 16:16	05/23/24 13:17	1
Nitrobenzene-d5 (Surr)	173	S1+	37 - 133				05/20/24 16:16	05/23/24 13:17	1
Phenol-d5 (Surr)	64		8 - 124				05/20/24 16:16	05/23/24 13:17	1
p-Terphenyl-d14	122		47 - 130				05/20/24 16:16	05/23/24 13:17	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>1,2-Dichlorobenzene</b>	<b>0.335</b>	<b>J H</b>	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 19:31	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>1,4-Dichlorobenzene</b>	<b>0.116</b>	<b>J H</b>	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>1,4-Dioxane</b>	<b>2.29</b>	<b>H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>2-Methylnaphthalene</b>	<b>1.09</b>	<b>H</b>	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 19:31	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 19:31	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 19:31	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 19:31	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 19:31	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 19:31	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 19:31	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 19:31	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 19:31	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 19:31	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 19:31	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 19:31	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>Benzyl alcohol</b>	<b>1.50</b>	<b>H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 19:31	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 19:31	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 19:31	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 19:31	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 19:31	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 19:31	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>Dibenzofuran</b>	<b>3.55</b>	<b>H</b>	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 19:31	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 19:31	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 19:31	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 19:31	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 19:31	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>Fluorene</b>	<b>0.159</b>	<b>J H</b>	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 19:31	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 19:31	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 19:31	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 19:31	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 19:31	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:31	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 19:31	1
<b>Naphthalene</b>	<b>20.7</b>	<b>H</b>	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 19:31	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 19:31	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 19:31	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 19:31	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 19:31	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 19:31	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 19:31	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 19:31	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *-	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 19:31	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 19:31	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 19:31	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 19:31	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 19:31	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 19:31	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 19:31	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 19:31	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 19:31	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 19:31	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 19:31	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 19:31	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 19:31	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 19:31	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Lab Sample ID: 860-74285-10**

**Date Collected: 05/13/24 14:03**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 19:31	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 19:31	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 19:31	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 19:31	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 19:31	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 19:31	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 19:31	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 19:31	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 19:31	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 19:31	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 19:31	1
Hexachloropropene	<0.300	U H *	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 19:31	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 19:31	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 19:31	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 19:31	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 19:31	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 19:31	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 19:31	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 19:31	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 19:31	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 19:31	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:31	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:31	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 19:31	1
p-Phenylene diamine	<0.500	U H *	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 19:31	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 19:31	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 19:31	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 19:31	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	171	S1+	35 - 130	05/24/24 05:36	05/24/24 19:31	1
2-Fluorobiphenyl	99		43 - 130	05/24/24 05:36	05/24/24 19:31	1
2-Fluorophenol (Surr)	91		19 - 120	05/24/24 05:36	05/24/24 19:31	1
Nitrobenzene-d5 (Surr)	192	S1+	37 - 133	05/24/24 05:36	05/24/24 19:31	1
Phenol-d5 (Surr)	61		8 - 124	05/24/24 05:36	05/24/24 19:31	1
p-Terphenyl-d14	134	S1+	47 - 130	05/24/24 05:36	05/24/24 19:31	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	37.5	H	28.6	4.48	ug/L		05/24/24 05:36	05/24/24 15:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	2158	S1+	35 - 130	05/24/24 05:36	05/24/24 15:29	10
2-Fluorobiphenyl	111		43 - 130	05/24/24 05:36	05/24/24 15:29	10

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**

**Date Collected: 05/13/24 14:03**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-10**

**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	124	S1+	19 - 120	05/24/24 05:36	05/24/24 15:29	10
Nitrobenzene-d5 (Surr)	192	S1+	37 - 133	05/24/24 05:36	05/24/24 15:29	10
Phenol-d5 (Surr)	93		8 - 124	05/24/24 05:36	05/24/24 15:29	10
p-Terphenyl-d14	118		47 - 130	05/24/24 05:36	05/24/24 15:29	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1'-Biphenyl</b>	<b>1860</b>	<b>H</b>	57.1	9.81	ug/L		05/24/24 05:36	05/24/24 15:58	100
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
2,4,6-Tribromophenol (Surr)	13998	S1+	35 - 130	05/24/24 05:36	05/24/24 15:58	100			
2-Fluorobiphenyl	327	S1+	43 - 130	05/24/24 05:36	05/24/24 15:58	100			
2-Fluorophenol (Surr)	282	S1+	19 - 120	05/24/24 05:36	05/24/24 15:58	100			
Nitrobenzene-d5 (Surr)	723	S1+	37 - 133	05/24/24 05:36	05/24/24 15:58	100			
Phenol-d5 (Surr)	326	S1+	8 - 124	05/24/24 05:36	05/24/24 15:58	100			
p-Terphenyl-d14	118		47 - 130	05/24/24 05:36	05/24/24 15:58	100			

**Client Sample ID: MW-20**

**Date Collected: 05/13/24 14:55**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-11**

**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 17:39	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 17:39	1
1,1,1,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 17:39	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 17:39	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 17:39	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 17:39	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 17:39	1
<b>1,2,4-Trimethylbenzene</b>	<b>6.27</b>		1.00	0.417	ug/L			05/18/24 17:39	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 17:39	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 17:39	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 17:39	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 17:39	1
<b>1,3,5-Trimethylbenzene</b>	<b>2.06</b>		1.00	0.411	ug/L			05/18/24 17:39	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 17:39	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 17:39	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 17:39	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 17:39	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 17:39	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 17:39	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 17:39	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 17:39	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 17:39	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 17:39	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 17:39	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 17:39	1
<b>Benzene</b>	<b>29.9</b>		1.00	0.460	ug/L			05/18/24 17:39	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 17:39	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 17:39	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 17:39	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 17:39	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 17:39	1
<b>Chlorobenzene</b>	<b>5.08</b>		1.00	0.455	ug/L			05/18/24 17:39	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 17:39	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 17:39	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 17:39	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 17:39	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 17:39	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 17:39	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 17:39	1
<b>Cumene (isopropylbenzene)</b>	<b>2.76</b>		1.00	0.592	ug/L			05/18/24 17:39	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 17:39	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 17:39	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 17:39	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 17:39	1
<b>Ethylbenzene</b>	<b>2.87</b>		1.00	0.385	ug/L			05/18/24 17:39	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 17:39	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 17:39	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 17:39	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 17:39	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 17:39	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 17:39	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 17:39	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 17:39	1
<b>Propylbenzene</b>	<b>2.24</b>		1.00	0.429	ug/L			05/18/24 17:39	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 17:39	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 17:39	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 17:39	1
<b>Toluene</b>	<b>3.30</b>		1.00	0.475	ug/L			05/18/24 17:39	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 17:39	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 17:39	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 17:39	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 17:39	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 17:39	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 17:39	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 17:39	1
<b>Xylenes, Total</b>	<b>7.63</b>	<b>J</b>	10.0	1.24	ug/L			05/18/24 17:39	1
<b>m,p-Xylenes</b>	<b>0.00641</b>	<b>J</b>	0.0100	0.00124	mg/L			05/18/24 17:39	1
<b>o-Xylene</b>	<b>0.00122</b>		0.00100	0.000502	mg/L			05/18/24 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/18/24 17:39	1
4-Bromofluorobenzene (Surr)	94		74 - 124		05/18/24 17:39	1
Dibromofluoromethane (Surr)	99		75 - 131		05/18/24 17:39	1
Toluene-d8 (Surr)	99		80 - 120		05/18/24 17:39	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>2,4-Dimethylphenol</b>	<b>0.646</b>		0.571	0.192	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/22/24 07:42	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/22/24 07:42	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/22/24 07:42	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>Acenaphthene</b>	<b>1.01</b>		0.571	0.107	ug/L		05/20/24 16:16	05/22/24 07:42	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/22/24 07:42	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/22/24 07:42	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/22/24 07:42	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/22/24 07:42	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/22/24 07:42	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/22/24 07:42	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/22/24 07:42	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>Benzyl alcohol</b>	<b>1.80</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/28/24 15:13	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/22/24 07:42	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/22/24 07:42	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/22/24 07:42	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 07:42	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/22/24 07:42	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>Dibenzofuran</b>	<b>0.318</b>	<b>J</b>	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 07:42	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/22/24 07:42	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/22/24 07:42	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/22/24 07:42	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/22/24 07:42	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>Fluorene</b>	<b>0.217</b>	<b>J</b>	0.571	0.0948	ug/L		05/20/24 16:16	05/22/24 07:42	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/22/24 07:42	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/22/24 07:42	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/22/24 07:42	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 07:42	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:42	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>Naphthalene</b>	<b>0.697</b>		0.571	0.0944	ug/L		05/20/24 16:16	05/22/24 07:42	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/22/24 07:42	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/22/24 07:42	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/22/24 07:42	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/22/24 07:42	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/22/24 07:42	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/22/24 07:42	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/22/24 07:42	1
<b>1,1'-Biphenyl</b>	<b>9.79</b>		0.571	0.0981	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/22/24 07:42	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/22/24 07:42	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 07:42	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/22/24 07:42	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/22/24 07:42	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/22/24 07:42	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/22/24 07:42	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 07:42	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/22/24 07:42	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 07:42	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/22/24 07:42	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/22/24 07:42	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 07:42	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 07:42	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 07:42	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 07:42	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 07:42	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/22/24 07:42	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/22/24 07:42	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/22/24 07:42	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/22/24 07:42	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/22/24 07:42	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/22/24 07:42	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 07:42	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/22/24 07:42	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 07:42	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/22/24 07:42	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/22/24 07:42	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/22/24 07:42	1
N-Nitrosopyrrolidine	<0.268	U *	0.571	0.268	ug/L		05/20/24 16:16	05/22/24 07:42	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/22/24 07:42	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/20/24 16:16	05/22/24 07:42	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:42	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:42	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/22/24 07:42	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 07:42	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 07:42	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/22/24 07:42	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/22/24 07:42	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/22/24 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	151	S1+	35 - 130	05/20/24 16:16	05/22/24 07:42	1
2,4,6-Tribromophenol (Surr)	165	S1+	35 - 130	05/20/24 16:16	05/28/24 15:13	1
2-Fluorobiphenyl	103		43 - 130	05/20/24 16:16	05/22/24 07:42	1
2-Fluorobiphenyl	95		43 - 130	05/20/24 16:16	05/28/24 15:13	1
2-Fluorophenol (Surr)	115		19 - 120	05/20/24 16:16	05/22/24 07:42	1
2-Fluorophenol (Surr)	94		19 - 120	05/20/24 16:16	05/28/24 15:13	1
Nitrobenzene-d5 (Surr)	170	S1+	37 - 133	05/20/24 16:16	05/22/24 07:42	1
Nitrobenzene-d5 (Surr)	129		37 - 133	05/20/24 16:16	05/28/24 15:13	1
Phenol-d5 (Surr)	82		8 - 124	05/20/24 16:16	05/22/24 07:42	1
Phenol-d5 (Surr)	70		8 - 124	05/20/24 16:16	05/28/24 15:13	1
p-Terphenyl-d14	126		47 - 130	05/20/24 16:16	05/22/24 07:42	1
p-Terphenyl-d14	109		47 - 130	05/20/24 16:16	05/28/24 15:13	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	65.9		11.4	1.78	ug/L		05/20/24 16:16	05/22/24 11:17	20
Phenol	19.6	J	28.6	4.48	ug/L		05/20/24 16:16	05/23/24 19:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	108		35 - 130	05/20/24 16:16	05/22/24 11:17	20
2,4,6-Tribromophenol (Surr)	143	S1+	35 - 130	05/20/24 16:16	05/23/24 19:57	10
2-Fluorobiphenyl	93		43 - 130	05/20/24 16:16	05/22/24 11:17	20
2-Fluorobiphenyl	110		43 - 130	05/20/24 16:16	05/23/24 19:57	10
2-Fluorophenol (Surr)	95		19 - 120	05/20/24 16:16	05/22/24 11:17	20
2-Fluorophenol (Surr)	92		19 - 120	05/20/24 16:16	05/23/24 19:57	10
Nitrobenzene-d5 (Surr)	135	S1+	37 - 133	05/20/24 16:16	05/22/24 11:17	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	119		37 - 133	05/20/24 16:16	05/23/24 19:57	10
Phenol-d5 (Surr)	73		8 - 124	05/20/24 16:16	05/22/24 11:17	20
Phenol-d5 (Surr)	84		8 - 124	05/20/24 16:16	05/23/24 19:57	10
p-Terphenyl-d14	99		47 - 130	05/20/24 16:16	05/22/24 11:17	20
p-Terphenyl-d14	107		47 - 130	05/20/24 16:16	05/23/24 19:57	10

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	1380		286	45.5	ug/L		05/20/24 16:16	05/22/24 11:45	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/20/24 16:16	05/22/24 11:45	500
2-Fluorobiphenyl	280	S1+	43 - 130	05/20/24 16:16	05/22/24 11:45	500
2-Fluorophenol (Surr)	437	S1+	19 - 120	05/20/24 16:16	05/22/24 11:45	500
Nitrobenzene-d5 (Surr)	479	S1+	37 - 133	05/20/24 16:16	05/22/24 11:45	500
Phenol-d5 (Surr)	327	S1+	8 - 124	05/20/24 16:16	05/22/24 11:45	500
p-Terphenyl-d14	105		47 - 130	05/20/24 16:16	05/22/24 11:45	500

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/20/24 16:16	05/23/24 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	182	S1+	35 - 130	05/20/24 16:16	05/23/24 13:46	1
2-Fluorobiphenyl	106		43 - 130	05/20/24 16:16	05/23/24 13:46	1
2-Fluorophenol (Surr)	109		19 - 120	05/20/24 16:16	05/23/24 13:46	1
Nitrobenzene-d5 (Surr)	179	S1+	37 - 133	05/20/24 16:16	05/23/24 13:46	1
Phenol-d5 (Surr)	77		8 - 124	05/20/24 16:16	05/23/24 13:46	1
p-Terphenyl-d14	124		47 - 130	05/20/24 16:16	05/23/24 13:46	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>2,4-Dimethylphenol</b>	<b>0.738</b>	<b>H</b>	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>2-Methylnaphthalene</b>	<b>0.0641</b>	<b>J H I</b>	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 20:00	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 20:00	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 20:00	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Acenaphthene</b>	<b>1.08</b>	<b>H</b>	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 20:00	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 20:00	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Anthracene</b>	<b>0.0989</b>	<b>J H</b>	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 20:00	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 20:00	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 20:00	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 20:00	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 20:00	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Benzyl alcohol</b>	<b>1.43</b>	<b>H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 20:00	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 20:00	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 20:00	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 20:00	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 20:00	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 20:00	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Dibenzofuran</b>	<b>0.309</b>	<b>J H</b>	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 20:00	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 20:00	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 20:00	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 20:00	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 20:00	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Fluorene</b>	<b>0.211</b>	<b>J H</b>	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 20:00	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 20:00	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 20:00	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 20:00	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 20:00	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:00	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Naphthalene</b>	<b>0.641</b>	<b>H</b>	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 20:00	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 20:00	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 20:00	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>Phenol</b>	<b>17.3</b>	<b>H</b>	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 20:00	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 20:00	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 20:00	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 20:00	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 20:00	1
<b>1,1'-Biphenyl</b>	<b>2.95</b>	<b>H</b>	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *-	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 20:00	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 20:00	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 20:00	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 20:00	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 20:00	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 20:00	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 20:00	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 20:00	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 20:00	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 20:00	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 20:00	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 20:00	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 20:00	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 20:00	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 20:00	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 20:00	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 20:00	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 20:00	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 20:00	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 20:00	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 20:00	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 20:00	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 20:00	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 20:00	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 20:00	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 20:00	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 20:00	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 20:00	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 20:00	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 20:00	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 20:00	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 20:00	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 20:00	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:00	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-20**

**Lab Sample ID: 860-74285-11**

**Date Collected: 05/13/24 14:55**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 20:00	1
p-Phenylene diamine	<0.500	U H *	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 20:00	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:00	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 20:00	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 20:00	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	176	S1+	35 - 130	05/24/24 05:36	05/24/24 20:00	1
2-Fluorobiphenyl	87		43 - 130	05/24/24 05:36	05/24/24 20:00	1
2-Fluorophenol (Surr)	98		19 - 120	05/24/24 05:36	05/24/24 20:00	1
Nitrobenzene-d5 (Surr)	180	S1+	37 - 133	05/24/24 05:36	05/24/24 20:00	1
Phenol-d5 (Surr)	67		8 - 124	05/24/24 05:36	05/24/24 20:00	1
p-Terphenyl-d14	110		47 - 130	05/24/24 05:36	05/24/24 20:00	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	68.6	H	5.71	0.890	ug/L		05/24/24 05:36	05/24/24 17:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	609	S1+	35 - 130	05/24/24 05:36	05/24/24 17:54	10
2-Fluorobiphenyl	111		43 - 130	05/24/24 05:36	05/24/24 17:54	10
2-Fluorophenol (Surr)	124	S1+	19 - 120	05/24/24 05:36	05/24/24 17:54	10
Nitrobenzene-d5 (Surr)	222	S1+	37 - 133	05/24/24 05:36	05/24/24 17:54	10
Phenol-d5 (Surr)	94		8 - 124	05/24/24 05:36	05/24/24 17:54	10
p-Terphenyl-d14	102		47 - 130	05/24/24 05:36	05/24/24 17:54	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	1820	H	57.1	9.10	ug/L		05/24/24 05:36	05/24/24 18:23	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	4006	S1+	35 - 130	05/24/24 05:36	05/24/24 18:23	100
2-Fluorobiphenyl	332	S1+	43 - 130	05/24/24 05:36	05/24/24 18:23	100
2-Fluorophenol (Surr)	416	S1+	19 - 120	05/24/24 05:36	05/24/24 18:23	100
Nitrobenzene-d5 (Surr)	945	S1+	37 - 133	05/24/24 05:36	05/24/24 18:23	100
Phenol-d5 (Surr)	343	S1+	8 - 124	05/24/24 05:36	05/24/24 18:23	100
p-Terphenyl-d14	95		47 - 130	05/24/24 05:36	05/24/24 18:23	100

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 18:00	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 18:00	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 18:00	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 18:00	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 18:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 18:00	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 18:00	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 18:00	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 18:00	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 18:00	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 18:00	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 18:00	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 18:00	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 18:00	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 18:00	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 18:00	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 18:00	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 18:00	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 18:00	1
<b>4-Methyl-2-pentanone</b>	<b>23.2</b>	<b>J</b>	50.0	7.49	ug/L			05/18/24 18:00	1
<b>Acetone</b>	<b>12.7</b>	<b>J</b>	100	3.07	ug/L			05/18/24 18:00	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 18:00	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 18:00	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 18:00	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 18:00	1
<b>Benzene</b>	<b>43.2</b>		1.00	0.460	ug/L			05/18/24 18:00	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 18:00	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 18:00	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 18:00	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 18:00	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 18:00	1
<b>Chlorobenzene</b>	<b>7.44</b>		1.00	0.455	ug/L			05/18/24 18:00	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 18:00	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 18:00	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 18:00	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 18:00	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 18:00	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 18:00	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 18:00	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 18:00	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 18:00	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 18:00	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 18:00	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 18:00	1
<b>Ethylbenzene</b>	<b>0.478</b>	<b>J</b>	1.00	0.385	ug/L			05/18/24 18:00	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 18:00	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 18:00	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 18:00	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 18:00	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 18:00	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 18:00	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 18:00	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 18:00	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 18:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 18:00	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 18:00	1
<b>Tetrahydrofuran</b>	<b>3.13</b>	<b>J</b>	10.0	1.83	ug/L			05/18/24 18:00	1
<b>Toluene</b>	<b>0.851</b>	<b>J</b>	1.00	0.475	ug/L			05/18/24 18:00	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 18:00	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 18:00	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 18:00	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 18:00	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 18:00	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 18:00	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 18:00	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 18:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 18:00	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 18:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	104		63 - 144					05/18/24 18:00	1
4-Bromofluorobenzene (Surr)	98		74 - 124					05/18/24 18:00	1
Dibromofluoromethane (Surr)	98		75 - 131					05/18/24 18:00	1
Toluene-d8 (Surr)	100		80 - 120					05/18/24 18:00	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>1,2-Dichlorobenzene</b>	<b>0.0963</b>	<b>J</b>	0.571	0.0941	ug/L		05/20/24 16:16	05/22/24 08:11	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 08:11	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>2,4-Dichlorophenol</b>	<b>0.162</b>	<b>J</b>	0.571	0.140	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>1,4-Dioxane</b>	<b>4.63</b>		0.571	0.0890	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/22/24 08:11	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>2-Methylnaphthalene</b>	<b>0.650</b>		0.571	0.0603	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>2-Methylphenol</b>	<b>0.646</b>		0.571	0.105	ug/L		05/20/24 16:16	05/22/24 08:11	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 08:11	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>3 &amp; 4 Methylphenol</b>	<b>1.93</b>		0.571	0.139	ug/L		05/20/24 16:16	05/28/24 15:41	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/22/24 08:11	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/22/24 08:11	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:11	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 08:11	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 08:11	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/22/24 08:11	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/20/24 16:16	05/22/24 08:11	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 08:11	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/22/24 08:11	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/22/24 08:11	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/22/24 08:11	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/22/24 08:11	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/22/24 08:11	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/22/24 08:11	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/22/24 08:11	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/22/24 08:11	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/20/24 16:16	05/28/24 15:41	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/22/24 08:11	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/22/24 08:11	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/22/24 08:11	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 08:11	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/22/24 08:11	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>Dibenzofuran</b>	<b>4.46</b>		0.571	0.107	ug/L		05/20/24 16:16	05/22/24 08:11	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/22/24 08:11	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/22/24 08:11	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/22/24 08:11	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/22/24 08:11	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>Fluorene</b>	<b>0.127</b>	<b>J</b>	0.571	0.0948	ug/L		05/20/24 16:16	05/22/24 08:11	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/22/24 08:11	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/22/24 08:11	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/22/24 08:11	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 08:11	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:11	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 08:11	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/22/24 08:11	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/22/24 08:11	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/22/24 08:11	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/22/24 08:11	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>Acetophenone</b>	<b>0.941</b>	<b>J</b>	1.14	0.624	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/22/24 08:11	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>Diphenyl ether</b>	<b>10400</b>	<b>H</b>	571	91.0	ug/L		05/24/24 05:36	05/28/24 14:16	1000
<b>1,1'-Biphenyl</b>	<b>3310</b>	<b>H</b>	571	98.1	ug/L		05/24/24 05:36	05/28/24 14:16	1000
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/22/24 08:11	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/22/24 08:11	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 08:11	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/22/24 08:11	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/22/24 08:11	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 08:11	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/22/24 08:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

Date Collected: 05/14/24 11:15

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/20/24 16:16	05/22/24 08:11	1
<b>2-Chlorophenol</b>	<b>0.199</b>	<b>J</b>	0.571	0.0756	ug/L		05/20/24 16:16	05/22/24 08:11	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/22/24 08:11	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/22/24 08:11	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/22/24 08:11	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/22/24 08:11	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/22/24 08:11	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 08:11	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/22/24 08:11	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 08:11	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/22/24 08:11	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/22/24 08:11	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 08:11	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 08:11	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 08:11	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 08:11	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 08:11	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/22/24 08:11	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/22/24 08:11	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/22/24 08:11	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/22/24 08:11	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/22/24 08:11	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/22/24 08:11	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 08:11	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/22/24 08:11	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 08:11	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/22/24 08:11	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/22/24 08:11	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/22/24 08:11	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/22/24 08:11	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/22/24 08:11	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/20/24 16:16	05/22/24 08:11	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:11	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:11	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/22/24 08:11	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 08:11	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:11	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/22/24 08:11	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/22/24 08:11	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/22/24 08:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	164	S1+	35 - 130	05/20/24 16:16	05/22/24 08:11	1
2,4,6-Tribromophenol (Surr)	48357	S1+	35 - 130	05/24/24 05:36	05/28/24 14:16	1000
2,4,6-Tribromophenol (Surr)	180	S1+	35 - 130	05/20/24 16:16	05/28/24 15:41	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Date Collected: 05/14/24 11:15**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-12**

**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 130	05/20/24 16:16	05/22/24 08:11	1
2-Fluorobiphenyl	728	S1+	43 - 130	05/24/24 05:36	05/28/24 14:16	1000
2-Fluorobiphenyl	93		43 - 130	05/20/24 16:16	05/28/24 15:41	1
2-Fluorophenol (Surr)	93		19 - 120	05/20/24 16:16	05/22/24 08:11	1
2-Fluorophenol (Surr)	1127	S1+	19 - 120	05/24/24 05:36	05/28/24 14:16	1000
2-Fluorophenol (Surr)	85		19 - 120	05/20/24 16:16	05/28/24 15:41	1
Nitrobenzene-d5 (Surr)	158	S1+	37 - 133	05/20/24 16:16	05/22/24 08:11	1
Nitrobenzene-d5 (Surr)	1508	S1+	37 - 133	05/24/24 05:36	05/28/24 14:16	1000
Nitrobenzene-d5 (Surr)	120		37 - 133	05/20/24 16:16	05/28/24 15:41	1
Phenol-d5 (Surr)	68		8 - 124	05/20/24 16:16	05/22/24 08:11	1
Phenol-d5 (Surr)	1421	S1+	8 - 124	05/24/24 05:36	05/28/24 14:16	1000
Phenol-d5 (Surr)	63		8 - 124	05/20/24 16:16	05/28/24 15:41	1
p-Terphenyl-d14	115		47 - 130	05/20/24 16:16	05/22/24 08:11	1
p-Terphenyl-d14	154	S1+	47 - 130	05/24/24 05:36	05/28/24 14:16	1000
p-Terphenyl-d14	103		47 - 130	05/20/24 16:16	05/28/24 15:41	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	27.0		5.71	0.944	ug/L		05/20/24 16:16	05/23/24 20:26	10
Phenol	43.4		28.6	4.48	ug/L		05/20/24 16:16	05/23/24 20:26	10
Diphenyl ether	10500		571	91.0	ug/L		05/20/24 16:16	05/22/24 12:14	1000
1,1'-Biphenyl	3370		571	98.1	ug/L		05/20/24 16:16	05/22/24 12:14	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	4038	S1+	35 - 130	05/20/24 16:16	05/22/24 12:14	1000
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130	05/20/24 16:16	05/23/24 20:26	10
2-Fluorobiphenyl	2099	S1+	43 - 130	05/20/24 16:16	05/22/24 12:14	1000
2-Fluorobiphenyl	110		43 - 130	05/20/24 16:16	05/23/24 20:26	10
2-Fluorophenol (Surr)	3518	S1+	19 - 120	05/20/24 16:16	05/22/24 12:14	1000
2-Fluorophenol (Surr)	98		19 - 120	05/20/24 16:16	05/23/24 20:26	10
Nitrobenzene-d5 (Surr)	1578	S1+	37 - 133	05/20/24 16:16	05/22/24 12:14	1000
Nitrobenzene-d5 (Surr)	142	S1+	37 - 133	05/20/24 16:16	05/23/24 20:26	10
Phenol-d5 (Surr)	4349	S1+	8 - 124	05/20/24 16:16	05/22/24 12:14	1000
Phenol-d5 (Surr)	79		8 - 124	05/20/24 16:16	05/23/24 20:26	10
p-Terphenyl-d14	31063	S1+	47 - 130	05/20/24 16:16	05/22/24 12:14	1000
p-Terphenyl-d14	115		47 - 130	05/20/24 16:16	05/23/24 20:26	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/20/24 16:16	05/23/24 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	186	S1+	35 - 130	05/20/24 16:16	05/23/24 14:15	1
2-Fluorobiphenyl	93		43 - 130	05/20/24 16:16	05/23/24 14:15	1
2-Fluorophenol (Surr)	100		19 - 120	05/20/24 16:16	05/23/24 14:15	1
Nitrobenzene-d5 (Surr)	167	S1+	37 - 133	05/20/24 16:16	05/23/24 14:15	1
Phenol-d5 (Surr)	72		8 - 124	05/20/24 16:16	05/23/24 14:15	1
p-Terphenyl-d14	119		47 - 130	05/20/24 16:16	05/23/24 14:15	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>1,2-Dichlorobenzene</b>	<b>0.100</b>	<b>J H</b>	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 20:28	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 20:28	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>2,4-Dichlorophenol</b>	<b>0.201</b>	<b>J H</b>	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>2,4-Dimethylphenol</b>	<b>1.79</b>	<b>H</b>	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>1,4-Dioxane</b>	<b>4.32</b>	<b>H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>2-Methylnaphthalene</b>	<b>0.604</b>	<b>I H</b>	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>2-Methylphenol</b>	<b>1.17</b>	<b>H</b>	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 20:28	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 20:28	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 20:28	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 20:28	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>Aniline</b>	<b>1.21</b>	<b>I H</b>	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 20:28	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 20:28	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 20:28	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 20:28	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 20:28	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 20:28	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>Benzyl alcohol</b>	<b>1.59</b>	<b>I H B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 20:28	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 20:28	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 20:28	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 20:28	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 20:28	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 20:28	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>Dibenzofuran</b>	<b>3.70</b>	<b>H</b>	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 20:28	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 20:28	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 20:28	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 20:28	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 20:28	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 20:28	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 20:28	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 20:28	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 20:28	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 20:28	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 20:28	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:28	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 20:28	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 20:28	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 20:28	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 20:28	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 20:28	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>Acetophenone</b>	<b>1.00</b>	<b>J H</b>	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 20:28	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 20:28	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 20:28	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 20:28	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 20:28	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 20:28	1
1-Naphthylamine	<0.149	U H *	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 20:28	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Acetylaminofluorene	<1.26	U H *+	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 20:28	1
<b>2-Chlorophenol</b>	<b>0.135</b>	<b>J H</b>	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 20:28	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 20:28	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 20:28	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 20:28	1
3-Methylcholanthrene	<0.104	U H *	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 20:28	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 20:28	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 20:28	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 20:28	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 20:28	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 20:28	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 20:28	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 20:28	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 20:28	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 20:28	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 20:28	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 20:28	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 20:28	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 20:28	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 20:28	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 20:28	1
Hexachloropropene	<0.300	U H *	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 20:28	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 20:28	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**

**Lab Sample ID: 860-74285-12**

**Date Collected: 05/14/24 11:15**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 20:28	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 20:28	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 20:28	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 20:28	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 20:28	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 20:28	1
o,o',o"-Triethylphosphorothioate	<0.138	U H	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 20:28	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 20:28	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:28	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:28	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 20:28	1
p-Phenylene diamine	<0.500	U H *	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 20:28	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 20:28	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 20:28	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 20:28	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	184	S1+	35 - 130	05/24/24 05:36	05/24/24 20:28	1
2-Fluorobiphenyl	75		43 - 130	05/24/24 05:36	05/24/24 20:28	1
2-Fluorophenol (Surr)	90		19 - 120	05/24/24 05:36	05/24/24 20:28	1
Nitrobenzene-d5 (Surr)	188	S1+	37 - 133	05/24/24 05:36	05/24/24 20:28	1
Phenol-d5 (Surr)	61		8 - 124	05/24/24 05:36	05/24/24 20:28	1
p-Terphenyl-d14	97		47 - 130	05/24/24 05:36	05/24/24 20:28	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	23.2	H	5.71	0.944	ug/L		05/24/24 05:36	05/24/24 18:52	10
Phenol	50.7	H	28.6	4.48	ug/L		05/24/24 05:36	05/24/24 18:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	501	S1+	35 - 130	05/24/24 05:36	05/24/24 18:52	10
2-Fluorobiphenyl	88		43 - 130	05/24/24 05:36	05/24/24 18:52	10
2-Fluorophenol (Surr)	111		19 - 120	05/24/24 05:36	05/24/24 18:52	10
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133	05/24/24 05:36	05/24/24 18:52	10
Phenol-d5 (Surr)	79		8 - 124	05/24/24 05:36	05/24/24 18:52	10
p-Terphenyl-d14	87		47 - 130	05/24/24 05:36	05/24/24 18:52	10

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

**Date Collected: 05/14/24 13:26**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 13:54	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 13:54	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

**Date Collected: 05/14/24 13:26**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 13:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 13:54	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 13:54	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 13:54	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 13:54	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 13:54	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 13:54	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 13:54	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 13:54	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 13:54	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 13:54	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 13:54	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 13:54	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 13:54	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 13:54	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 13:54	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 13:54	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 13:54	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 13:54	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 13:54	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 13:54	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 13:54	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 13:54	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 13:54	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 13:54	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 13:54	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 13:54	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 13:54	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 13:54	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 13:54	1
<b>Chlorobenzene</b>	<b>16.9</b>		1.00	0.455	ug/L			05/18/24 13:54	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 13:54	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 13:54	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 13:54	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 13:54	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 13:54	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 13:54	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 13:54	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 13:54	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 13:54	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 13:54	1
Dichlorodifluoromethane	<0.785	U F1	1.00	0.785	ug/L			05/18/24 13:54	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 13:54	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 13:54	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 13:54	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 13:54	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 13:54	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 13:54	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 13:54	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

**Date Collected: 05/14/24 13:26**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 13:54	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 13:54	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 13:54	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 13:54	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 13:54	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 13:54	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 13:54	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 13:54	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 13:54	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 13:54	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 13:54	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 13:54	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 13:54	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 13:54	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 13:54	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 13:54	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 13:54	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144					05/18/24 13:54	1
4-Bromofluorobenzene (Surr)	100		74 - 124					05/18/24 13:54	1
Dibromofluoromethane (Surr)	99		75 - 131					05/18/24 13:54	1
Toluene-d8 (Surr)	100		80 - 120					05/18/24 13:54	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U F1	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>1,2-Dichlorobenzene</b>	<b>0.197</b>	<b>J F1</b>	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 16:30	1
1,3-Dichlorobenzene	<0.102	U F1	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>1,4-Dichlorobenzene</b>	<b>0.364</b>	<b>J F1</b>	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,4,5-Trichlorophenol	<0.143	U F1	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>1,4-Dioxane</b>	<b>11.4</b>		0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,4-Dinitrotoluene	<0.205	U F1	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,6-Dinitrotoluene	<0.116	U F1	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Chloronaphthalene	<0.378	U F1	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Nitroaniline	<0.149	U F1	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 16:30	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 16:30	1
3-Nitroaniline	<0.0853	U F2	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 16:30	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 16:30	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 16:30	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 16:30	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

Date Collected: 05/14/24 13:26

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.0385	U F2	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 16:30	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 16:30	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>Acenaphthene</b>	<b>0.914</b>		0.571	0.107	ug/L		05/20/24 16:16	05/21/24 16:30	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 16:30	1
Aniline	<0.0580	U F2	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 16:30	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 16:30	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 16:30	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 16:30	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 16:30	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 16:30	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>Benzyl alcohol</b>	<b>1.26</b>	<b>B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 16:30	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>Bis(2-chloroethyl)ether</b>	<b>0.645</b>	<b>I</b>	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 16:30	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 16:30	1
Butyl benzyl phthalate	<0.500	U F1	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 16:30	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 16:30	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 16:30	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 16:30	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 16:30	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 16:30	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 16:30	1
Di-n-octyl phthalate	<0.269	U F1	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 16:30	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>Fluorene</b>	<b>0.140</b>	<b>J</b>	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 16:30	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 16:30	1
Hexachlorobutadiene	<0.103	U F1 F2	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 16:30	1
Hexachlorocyclopentadiene	<0.0512	U F1 F2	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 16:30	1
Hexachloroethane	<0.102	U F1	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 16:30	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 16:30	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 16:30	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 16:30	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 16:30	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 16:30	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 16:30	1
Phenol	<0.448	U F1	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 16:30	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 16:30	1
Pyridine	<1.44	U F1 *1	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,3,4,6-Tetrachlorophenol	<0.211	U F1	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 16:30	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 16:30	1
Pentachlorobenzene	<0.266	U F1	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>Diphenyl ether</b>	<b>0.956</b>	<b>F1</b>	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>1,1'-Biphenyl</b>	<b>0.120</b>	<b>J F1</b>	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 16:30	1
4-Aminobiphenyl	<0.394	U F1 *- F2	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 16:30	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

**Date Collected: 05/14/24 13:26**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.0957	U F1	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 16:30	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 16:30	1
1,3-Dinitrobenzene	<0.0773	U F1	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 16:30	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 16:30	1
1-Naphthylamine	<0.149	U F1 *- F2	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 16:30	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Acetylaminofluorene	<1.26	U F1 **	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Naphthylamine	<0.288	U F1 *- F2	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Picoline	<0.123	U F1 *1 F2	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 16:30	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 16:30	1
3,3'-Dichlorobenzidine	<0.183	U F1 F2	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 16:30	1
3,3'-Dimethylbenzidine	<0.142	U F1 *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 16:30	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 16:30	1
4-Nitroquinoline-1-oxide	<0.730	U F2	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 16:30	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 16:30	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 16:30	1
Aramite Peak 1	<0.0785	U F1 F2	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 16:30	1
Aramite Peak 2	<0.0954	U F1	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 16:30	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 16:30	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 16:30	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 16:30	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 16:30	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 16:30	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 16:30	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 16:30	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 16:30	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 16:30	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 16:30	1
Hexachloropropene	<0.300	U F1 F2	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 16:30	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 16:30	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 16:30	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 16:30	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 16:30	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 16:30	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 16:30	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 16:30	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>1.21</b>		0.571	0.138	ug/L		05/20/24 16:16	05/21/24 16:30	1
p-Dimethylamino azobenzene	<0.0238	U *- F1	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 16:30	1
Pentachloronitrobenzene	<0.100	U F1	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 16:30	1
Phenacetin	<0.100	U F1	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 16:30	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 16:30	1
p-Phenylene diamine	<0.500	U F1 *-	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 16:30	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 16:30	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

Date Collected: 05/14/24 13:26

Matrix: Water

Date Received: 05/15/24 09:30

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 16:30	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 16:30	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 16:30	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	217	S1+	35 - 130				05/20/24 16:16	05/21/24 16:30	1
2-Fluorobiphenyl	102		43 - 130				05/20/24 16:16	05/21/24 16:30	1
2-Fluorophenol (Surr)	93		19 - 120				05/20/24 16:16	05/21/24 16:30	1
Nitrobenzene-d5 (Surr)	172	S1+	37 - 133				05/20/24 16:16	05/21/24 16:30	1
Phenol-d5 (Surr)	52		8 - 124				05/20/24 16:16	05/21/24 16:30	1
p-Terphenyl-d14	122		47 - 130				05/20/24 16:16	05/21/24 16:30	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H F1	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>1,2-Dichlorobenzene</b>	<b>0.174</b>	<b>J H F1</b>	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 13:48	1
1,3-Dichlorobenzene	<0.102	U H F1	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>1,4-Dichlorobenzene</b>	<b>0.327</b>	<b>J H F1</b>	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>1,4-Dioxane</b>	<b>10.1</b>	<b>H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Chloronaphthalene	<0.378	U H F1	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Nitroaniline	<0.149	U H F1	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 13:48	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 13:48	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 13:48	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 13:48	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 13:48	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 13:48	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 13:48	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 13:48	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>Acenaphthene</b>	<b>0.833</b>	<b>H</b>	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 13:48	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 13:48	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 13:48	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 13:48	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 13:48	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 13:48	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 13:48	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 13:48	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>Benzyl alcohol</b>	<b>0.894</b>	<b>J H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 13:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

Date Collected: 05/14/24 13:26

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>Bis(2-chloroethyl)ether</b>	<b>0.559</b>	<b>J H I</b>	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 13:48	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 13:48	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 13:48	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 13:48	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 13:48	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 13:48	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 13:48	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 13:48	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 13:48	1
Di-n-octyl phthalate	<0.269	U H F1	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 13:48	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>Fluorene</b>	<b>0.128</b>	<b>J H</b>	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 13:48	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 13:48	1
Hexachlorobutadiene	<0.103	U H F1	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 13:48	1
Hexachlorocyclopentadiene	<0.0512	U H F1	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 13:48	1
Hexachloroethane	<0.102	U H F1	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 13:48	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 13:48	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 13:48	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 13:48	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 13:48	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 13:48	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>Phenol</b>	<b>8.99</b>	<b>H F1</b>	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 13:48	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 13:48	1
Pyridine	<1.44	U H F1	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 13:48	1
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 13:48	1
Pentachlorobenzene	<0.266	U H F1	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>1,1'-Biphenyl</b>	<b>8.54</b>	<b>H F1</b>	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 13:48	1
4-Aminobiphenyl	<0.394	U H F1	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 13:48	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *- F1	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 13:48	1
1,3,5-Trinitrobenzene	<0.119	U H F2	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 13:48	1
1,3-Dinitrobenzene	<0.0773	U H F1	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 13:48	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 13:48	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 13:48	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Acetylaminofluorene	<1.26	U *+ H F1	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>2-Chlorophenol</b>	<b>0.163</b>	<b>J H</b>	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Picoline	<0.123	U H F1	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 13:48	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 13:48	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 13:48	1
3,3'-Dimethylbenzidine	<0.142	U H F1	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 13:48	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 13:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-18**

**Lab Sample ID: 860-74285-13**

**Date Collected: 05/14/24 13:26**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 13:48	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 13:48	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 13:48	1
Aramite Peak 1	<0.0785	U H F1 *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 13:48	1
Aramite Peak 2	<0.0954	U H F1	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 13:48	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 13:48	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 13:48	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 13:48	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 13:48	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 13:48	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 13:48	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 13:48	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 13:48	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 13:48	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 13:48	1
Hexachloropropene	<0.300	U H * - F1	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 13:48	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 13:48	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 13:48	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 13:48	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 13:48	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 13:48	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosodimethylamine	<0.100	U H F1	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 13:48	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 13:48	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>1.22</b>	<b>H</b>	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 13:48	1
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 13:48	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 13:48	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 13:48	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 13:48	1
p-Phenylene diamine	<0.500	U H * - F1	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 13:48	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 13:48	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 13:48	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 13:48	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	202	S1+	35 - 130	05/24/24 05:36	05/24/24 13:48	1
2-Fluorobiphenyl	113		43 - 130	05/24/24 05:36	05/24/24 13:48	1
2-Fluorophenol (Surr)	83		19 - 120	05/24/24 05:36	05/24/24 13:48	1
Nitrobenzene-d5 (Surr)	178	S1+	37 - 133	05/24/24 05:36	05/24/24 13:48	1
Phenol-d5 (Surr)	53		8 - 124	05/24/24 05:36	05/24/24 13:48	1
p-Terphenyl-d14	103		47 - 130	05/24/24 05:36	05/24/24 13:48	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - REDL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	710	H	28.6	4.55	ug/L		05/24/24 05:36	05/28/24 16:38	50

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

**Date Collected: 05/14/24 14:51**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 15:57	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 15:57	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 15:57	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 15:57	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 15:57	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 15:57	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 15:57	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 15:57	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 15:57	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 15:57	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 15:57	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 15:57	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 15:57	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 15:57	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 15:57	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 15:57	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 15:57	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 15:57	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 15:57	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 15:57	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 15:57	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 15:57	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 15:57	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 15:57	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 15:57	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 15:57	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 15:57	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 15:57	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 15:57	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 15:57	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 15:57	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 15:57	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 15:57	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 15:57	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 15:57	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 15:57	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 15:57	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 15:57	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 15:57	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 15:57	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 15:57	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 15:57	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 15:57	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 15:57	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 15:57	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 15:57	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 15:57	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 15:57	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

**Date Collected: 05/14/24 14:51**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 15:57	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 15:57	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 15:57	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 15:57	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 15:57	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 15:57	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 15:57	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 15:57	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 15:57	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 15:57	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 15:57	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 15:57	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 15:57	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 15:57	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 15:57	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 15:57	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 15:57	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 15:57	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 15:57	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/18/24 15:57	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/18/24 15:57	1
Dibromofluoromethane (Surr)	97		75 - 131		05/18/24 15:57	1
Toluene-d8 (Surr)	101		80 - 120		05/18/24 15:57	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/22/24 08:39	1
<b>1,4-Dioxane</b>	<b>8.88</b>		0.571	0.0890	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/22/24 08:39	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/22/24 08:39	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/22/24 08:39	1
4,6-Dinitro-2-methylphenol	<0.201	U *1	1.14	0.201	ug/L		05/20/24 16:16	05/22/24 08:39	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

Date Collected: 05/14/24 14:51

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:39	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 08:39	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 08:39	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/22/24 08:39	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 16:16	05/22/24 08:39	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 08:39	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/22/24 08:39	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/22/24 08:39	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/22/24 08:39	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/22/24 08:39	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/22/24 08:39	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/22/24 08:39	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/22/24 08:39	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/22/24 08:39	1
<b>Benzyl alcohol</b>	<b>1.13</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 16:16	05/28/24 16:10	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/22/24 08:39	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/22/24 08:39	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/22/24 08:39	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 08:39	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/22/24 08:39	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/22/24 08:39	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 08:39	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/22/24 08:39	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/22/24 08:39	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/22/24 08:39	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/22/24 08:39	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/22/24 08:39	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/22/24 08:39	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/22/24 08:39	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/22/24 08:39	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/22/24 08:39	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/22/24 08:39	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:39	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/22/24 08:39	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/22/24 08:39	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/22/24 08:39	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/22/24 08:39	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/22/24 08:39	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/22/24 08:39	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/22/24 08:39	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/22/24 08:39	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/22/24 08:39	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/22/24 08:39	1
<b>Diphenyl ether</b>	<b>1.05</b>		0.571	0.0910	ug/L		05/20/24 16:16	05/22/24 08:39	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

Date Collected: 05/14/24 14:51

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1'-Biphenyl</b>	<b>0.257</b>	<b>J</b>	0.571	0.0981	ug/L		05/20/24 16:16	05/22/24 08:39	1
4-Aminobiphenyl	<0.394	U *-	0.571	0.394	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/22/24 08:39	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/22/24 08:39	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 16:16	05/22/24 08:39	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Acetylaminofluorene	<1.26	U *+	2.86	1.26	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Naphthylamine	<0.288	U *-	0.571	0.288	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 16:16	05/22/24 08:39	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/22/24 08:39	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/22/24 08:39	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 16:16	05/22/24 08:39	1
3-Methylcholanthrene	<0.104	U *-	0.571	0.104	ug/L		05/20/24 16:16	05/22/24 08:39	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/22/24 08:39	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 08:39	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 16:16	05/22/24 08:39	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/22/24 08:39	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 08:39	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/22/24 08:39	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 08:39	1
Diallate Peak 1	<0.0835	U *-	0.571	0.0835	ug/L		05/20/24 16:16	05/22/24 08:39	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/22/24 08:39	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/22/24 08:39	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/22/24 08:39	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/22/24 08:39	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/22/24 08:39	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/22/24 08:39	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/22/24 08:39	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 08:39	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/22/24 08:39	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/20/24 16:16	05/22/24 08:39	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/22/24 08:39	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/22/24 08:39	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/22/24 08:39	1
N-Nitrosopyrrolidine	<0.268	U *-	0.571	0.268	ug/L		05/20/24 16:16	05/22/24 08:39	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.264</b>	<b>J</b>	0.571	0.138	ug/L		05/20/24 16:16	05/22/24 08:39	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/20/24 16:16	05/22/24 08:39	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:39	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:39	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/22/24 08:39	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 16:16	05/22/24 08:39	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

Date Collected: 05/14/24 14:51

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/22/24 08:39	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/22/24 08:39	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/22/24 08:39	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/22/24 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	156	S1+	35 - 130	05/20/24 16:16	05/22/24 08:39	1
2,4,6-Tribromophenol (Surr)	155	S1+	35 - 130	05/20/24 16:16	05/28/24 16:10	1
2-Fluorobiphenyl	111		43 - 130	05/20/24 16:16	05/22/24 08:39	1
2-Fluorobiphenyl	101		43 - 130	05/20/24 16:16	05/28/24 16:10	1
2-Fluorophenol (Surr)	98		19 - 120	05/20/24 16:16	05/22/24 08:39	1
2-Fluorophenol (Surr)	89		19 - 120	05/20/24 16:16	05/28/24 16:10	1
Nitrobenzene-d5 (Surr)	173	S1+	37 - 133	05/20/24 16:16	05/22/24 08:39	1
Nitrobenzene-d5 (Surr)	126		37 - 133	05/20/24 16:16	05/28/24 16:10	1
Phenol-d5 (Surr)	67		8 - 124	05/20/24 16:16	05/22/24 08:39	1
Phenol-d5 (Surr)	59		8 - 124	05/20/24 16:16	05/28/24 16:10	1
p-Terphenyl-d14	96		47 - 130	05/20/24 16:16	05/22/24 08:39	1
p-Terphenyl-d14	91		47 - 130	05/20/24 16:16	05/28/24 16:10	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/20/24 16:16	05/23/24 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	181	S1+	35 - 130	05/20/24 16:16	05/23/24 14:43	1
2-Fluorobiphenyl	115		43 - 130	05/20/24 16:16	05/23/24 14:43	1
2-Fluorophenol (Surr)	97		19 - 120	05/20/24 16:16	05/23/24 14:43	1
Nitrobenzene-d5 (Surr)	180	S1+	37 - 133	05/20/24 16:16	05/23/24 14:43	1
Phenol-d5 (Surr)	68		8 - 124	05/20/24 16:16	05/23/24 14:43	1
p-Terphenyl-d14	93		47 - 130	05/20/24 16:16	05/23/24 14:43	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U H	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,2-Dichlorobenzene	<0.0941	U H	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,3-Dichlorobenzene	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,4-Dichlorobenzene	<0.0779	U H	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,2'-oxybis[1-chloropropane]	<1.43	U H	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,4,5-Trichlorophenol	<0.143	U H	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,4,6-Trichlorophenol	<0.231	U H	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,4-Dichlorophenol	<0.140	U H	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,4-Dimethylphenol	<0.192	U H	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 15:14	1
<b>1,4-Dioxane</b>	<b>7.41</b>	<b>H</b>	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,4-Dinitrophenol	<0.104	U H	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,4-Dinitrotoluene	<0.205	U H	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,6-Dinitrotoluene	<0.116	U H	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Chloronaphthalene	<0.378	U H	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Methylnaphthalene	<0.0603	U H	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Methylphenol	<0.105	U H	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Nitroaniline	<0.149	U H	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 15:14	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

**Date Collected: 05/14/24 14:51**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<0.136	U H	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 15:14	1
3 & 4 Methylphenol	<0.139	U H	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 15:14	1
3-Nitroaniline	<0.0853	U H	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 15:14	1
4,6-Dinitro-2-methylphenol	<0.201	U H	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Bromophenyl phenyl ether	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Chloro-3-methylphenol	<0.104	U H	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Chloroaniline	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Chlorophenyl phenyl ether	<0.130	U H	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Nitroaniline	<0.109	U H	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 15:14	1
Acenaphthene	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 15:14	1
Acenaphthylene	<0.0996	U H	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 15:14	1
Aniline	<0.0580	U H	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 15:14	1
Anthracene	<0.0938	U H	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 15:14	1
Benzo[a]anthracene	<0.0286	U H	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 15:14	1
Benzo[a]pyrene	<0.0100	U H	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 15:14	1
Benzo[b]fluoranthene	<0.0664	U H	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 15:14	1
Benzo[g,h,i]perylene	<0.0345	U H	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 15:14	1
Benzo[k]fluoranthene	<0.0473	U H	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 15:14	1
<b>Benzy alcohol</b>	<b>1.01</b>	<b>J H I B</b>	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 15:14	1
Bis(2-chloroethoxy)methane	<0.0974	U H	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 15:14	1
Bis(2-chloroethyl)ether	<0.214	U H	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 15:14	1
Bis(2-ethylhexyl) phthalate	<0.900	U H	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 15:14	1
Butyl benzyl phthalate	<0.500	U H	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 15:14	1
Chrysene	<0.0815	U H	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 15:14	1
Dibenz(a,h)anthracene	<0.0509	U H	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 15:14	1
Dibenzofuran	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 15:14	1
Diethyl phthalate	<0.155	U H	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 15:14	1
Dimethyl phthalate	<0.108	U H	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 15:14	1
Di-n-butyl phthalate	<0.765	U H	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 15:14	1
Di-n-octyl phthalate	<0.269	U H	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 15:14	1
Fluoranthene	<0.0883	U H	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 15:14	1
Fluorene	<0.0948	U H	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 15:14	1
Hexachlorobenzene	<0.0975	U H	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 15:14	1
Hexachlorobutadiene	<0.103	U H	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 15:14	1
Hexachlorocyclopentadiene	<0.0512	U H	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 15:14	1
Hexachloroethane	<0.102	U H	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 15:14	1
Indeno[1,2,3-cd]pyrene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:14	1
Isophorone	<0.107	U H	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 15:14	1
Naphthalene	<0.0944	U H	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 15:14	1
Nitrobenzene	<0.0736	U H	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosodi-n-propylamine	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosodiphenylamine	<0.145	U H	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 15:14	1
Pentachlorophenol	<1.04	U H	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 15:14	1
Phenanthrene	<0.134	U H	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 15:14	1
Phenol	<0.448	U H	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 15:14	1
Pyrene	<0.0849	U H	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 15:14	1
Pyridine	<1.44	U H	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitro-o-toluidine	<0.520	U H	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,3,4,6-Tetrachlorophenol	<0.211	U H	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 15:14	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

Date Collected: 05/14/24 14:51

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<0.624	U H	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosopiperidine	<0.467	U H	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 15:14	1
Pentachlorobenzene	<0.266	U H	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 15:14	1
<b>Diphenyl ether</b>	<b>0.427</b>	<b>J H</b>	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,1'-Biphenyl	<0.0981	U H	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Aminobiphenyl	<0.394	U H	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U H *-	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,3,5-Trinitrobenzene	<0.119	U H	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,3-Dinitrobenzene	<0.0773	U H	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 15:14	1
1,4-Naphthoquinone	<0.314	U H	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 15:14	1
1-Naphthylamine	<0.149	U H *-	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 15:14	1
2,6-Dichlorophenol	<0.118	U H	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Acetylaminofluorene	<1.26	U *+ H	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Chlorophenol	<0.0756	U H	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Naphthylamine	<0.288	U H	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Picoline	<0.123	U H	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 15:14	1
2-Toluidine	<0.306	U H	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 15:14	1
3,3'-Dichlorobenzidine	<0.183	U H	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 15:14	1
3,3'-Dimethylbenzidine	<0.142	U H	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 15:14	1
3-Methylcholanthrene	<0.104	U H *-	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 15:14	1
4-Nitroquinoline-1-oxide	<0.730	U H	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 15:14	1
7,12-Dimethylbenz(a)anthracene	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 15:14	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U H *1	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 15:14	1
Aramite Peak 1	<0.0785	U H *+	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 15:14	1
Aramite Peak 2	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 15:14	1
Aramite, Total	<0.0954	U H	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 15:14	1
Diallate	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 15:14	1
Diallate Peak 1	<0.0835	U H	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 15:14	1
Diallate Peak 2	<0.0385	U H	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 15:14	1
Dimethoate	<0.122	U H	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 15:14	1
Dinoseb	<0.570	U H	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 15:14	1
Disulfoton	<0.203	U H	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 15:14	1
Ethyl methanesulfonate	<0.227	U H	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 15:14	1
Ethyl Parathion	<0.0502	U H	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 15:14	1
Famphur	<0.151	U H	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 15:14	1
Hexachloropropene	<0.300	U H *-	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 15:14	1
Isosafrole	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 15:14	1
Isosafrole Peak 1	<0.0463	U H	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 15:14	1
Isosafrole Peak 2	<0.241	U H	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 15:14	1
Methapyrilene	<1.00	U H	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 15:14	1
Methyl methanesulfonate	<0.120	U H	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 15:14	1
Methyl parathion	<0.319	U H	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosodiethylamine	<0.538	U H	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosodimethylamine	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosodi-n-butylamine	<0.516	U H	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosomethylethylamine	<0.294	U H	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosomorpholine	<0.220	U H	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 15:14	1
N-Nitrosopyrrolidine	<0.268	U H	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 15:14	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.281</b>	<b>J H</b>	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 15:14	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-9**

**Lab Sample ID: 860-74285-14**

**Date Collected: 05/14/24 14:51**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Dimethylamino azobenzene	<0.0238	U H	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 15:14	1
Pentachloronitrobenzene	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:14	1
Phenacetin	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:14	1
Phorate	<0.221	U H	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 15:14	1
p-Phenylene diamine	<0.500	U H *-	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 15:14	1
Pronamide	<0.100	U H	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 15:14	1
Safrole, Total	<0.0571	U H	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 15:14	1
Sulfotepp	<0.147	U H	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 15:14	1
Thionazin	<0.208	U H	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	170	S1+	35 - 130	05/24/24 05:36	05/24/24 15:14	1
2-Fluorobiphenyl	109		43 - 130	05/24/24 05:36	05/24/24 15:14	1
2-Fluorophenol (Surr)	93		19 - 120	05/24/24 05:36	05/24/24 15:14	1
Nitrobenzene-d5 (Surr)	193	S1+	37 - 133	05/24/24 05:36	05/24/24 15:14	1
Phenol-d5 (Surr)	64		8 - 124	05/24/24 05:36	05/24/24 15:14	1
p-Terphenyl-d14	96		47 - 130	05/24/24 05:36	05/24/24 15:14	1

# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-74285-1	MW-1	103	99	98	100
860-74285-2	MW-2	102	98	100	99
860-74285-3	MW-3	103	98	99	100
860-74285-4	TB-07 051324	103	101	97	100
860-74285-5	MW-10	102	99	98	101
860-74285-6	MW-11	103	101	102	101
860-74285-7	RB-01	103	99	98	98
860-74285-8	MW-12	105	102	99	101
860-74285-9	MW-24	103	100	102	98
860-74285-10	MW-19	101	103	98	101
860-74285-11	MW-20	103	94	99	99
860-74285-12	MW-22	104	98	98	100
860-74285-13	MW-18	104	100	99	100
860-74285-13 MS	MW-18	99	100	101	101
860-74285-13 MSD	MW-18	98	101	102	99
860-74285-14	MW-9	104	99	97	101
LCS 860-160971/3	Lab Control Sample	98	101	101	101
LCS 860-160971/4	Lab Control Sample Dup	101	102	101	100
MB 860-160971/10	Method Blank	104	103	99	100

### Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74285-1	MW-1	148 S1+	96	88	157 S1+	59	89
860-74285-1 - RE	MW-1	137 S1+	93	115	170 S1+	89	87
860-74285-2	MW-2	166 S1+	114	103	171 S1+	76	100
860-74285-2 - RE	MW-2	153 S1+	94	108	177 S1+	77	91
860-74285-3	MW-3	133 S1+	112	98	155 S1+	68	110
860-74285-3 - RE	MW-3	154 S1+	112	87	175 S1+	61	112
860-74285-5	MW-10	134 S1+	100	96	154 S1+	65	92
860-74285-5 - RE	MW-10	125	91	99	157 S1+	71	75
860-74285-6	MW-11	131 S1+	88	88	159 S1+	60	87
860-74285-6 - RE	MW-11	163 S1+	112	72	181 S1+	48	123
860-74285-7	RB-01	136 S1+	114	75	179 S1+	73	113
860-74285-7 - RE	RB-01	119	91	65	155 S1+	62	93
860-74285-8	MW-12	212 S1+	168 S1+	144 S1+	248 S1+	99	150 S1+
860-74285-8 - RE	MW-12	142 S1+	113	87	174 S1+	58	81
860-74285-9	MW-24	153 S1+	118	103	172 S1+	62	105
860-74285-9 - RE	MW-24	145 S1+	103	90	167 S1+	61	82
860-74285-10	MW-19	157 S1+	114	100	170 S1+	68	125
860-74285-10 - DL2	MW-19	110	272 S1+	520 S1+	466 S1+	734 S1+	68

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# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHD14 (47-130)
860-74285-10 - DL	MW-19	77	105	89	127	71	107
860-74285-10 - RA	MW-19	184 S1+	110	99	173 S1+	64	122
860-74285-10 - REDL	MW-19	2158 S1+	111	124 S1+	192 S1+	93	118
860-74285-10 - REDL2	MW-19	13998 S1+	327 S1+	282 S1+	723 S1+	326 S1+	118
860-74285-10 - RE	MW-19	171 S1+	99	91	192 S1+	61	134 S1+
860-74285-10	MW-19	44858 S1+	651 S1+	765 S1+	1174 S1+	1045 S1+	109
860-74285-10	MW-19	197 S1+	106	86	133	64	113
860-74285-11	MW-20	151 S1+	103	115	170 S1+	82	126
860-74285-11 - DL	MW-20	108	93	95	135 S1+	73	99
860-74285-11 - DL2	MW-20	0 S1-	280 S1+	437 S1+	479 S1+	327 S1+	105
860-74285-11 - DL	MW-20	143 S1+	110	92	119	84	107
860-74285-11 - RA	MW-20	182 S1+	106	109	179 S1+	77	124
860-74285-11 - REDL	MW-20	609 S1+	111	124 S1+	222 S1+	94	102
860-74285-11 - REDL2	MW-20	4006 S1+	332 S1+	416 S1+	945 S1+	343 S1+	95
860-74285-11 - RE	MW-20	176 S1+	87	98	180 S1+	67	110
860-74285-11	MW-20	165 S1+	95	94	129	70	109
860-74285-12	MW-22	164 S1+	101	93	158 S1+	68	115
860-74285-12 - DL	MW-22	4038 S1+	2099 S1+	3518 S1+	1578 S1+	4349 S1+	31063 S1+
860-74285-12 - DL	MW-22	150 S1+	110	98	142 S1+	79	115
860-74285-12 - RA	MW-22	186 S1+	93	100	167 S1+	72	119
860-74285-12 - REDL	MW-22	501 S1+	88	111	182 S1+	79	87
860-74285-12 - RE	MW-22	184 S1+	75	90	188 S1+	61	97
860-74285-12	MW-22	48357 S1+	728 S1+	1127 S1+	1508 S1+	1421 S1+	154 S1+
860-74285-12	MW-22	180 S1+	93	85	120	63	103
860-74285-13	MW-18	217 S1+	102	93	172 S1+	52	122
860-74285-13 - RE	MW-18	202 S1+	113	83	178 S1+	53	103
860-74285-13 MS	MW-18	178 S1+	93	101	152 S1+	78	102
860-74285-13 MS - RE	MW-18	174 S1+	107	86	176 S1+	58	105
860-74285-13 MSD	MW-18	194 S1+	106	105	175 S1+	81	118
860-74285-13 MSD - RE	MW-18	191 S1+	108	96	179 S1+	61	113
860-74285-14	MW-9	156 S1+	111	98	173 S1+	67	96
860-74285-14 - RA	MW-9	181 S1+	115	97	180 S1+	68	93
860-74285-14 - RE	MW-9	170 S1+	109	93	193 S1+	64	96
860-74285-14	MW-9	155 S1+	101	89	126	59	91
LCS 860-161269/2-A	Lab Control Sample	104	98	77	127	51	84
LCS 860-161269/4-A	Lab Control Sample	114	109	75	143 S1+	48	102
LCS 860-162111/2-A	Lab Control Sample	145 S1+	106	82	166 S1+	64	90
LCS 860-162111/4-A	Lab Control Sample	96	106	56	168 S1+	59	104
LCSD 860-161269/3-A	Lab Control Sample Dup	114	106	80	137 S1+	55	94
LCSD 860-161269/5-A	Lab Control Sample Dup	117	110	81	146 S1+	55	94
LCSD 860-162111/3-A	Lab Control Sample Dup	123	95	77	157 S1+	59	94
LCSD 860-162111/5-A	Lab Control Sample Dup	111	109	53	181 S1+	55	94
MB 860-161269/1-A	Method Blank	91	97	70	118	47	83
MB 860-162111/1-A	Method Blank	148 S1+	120	87	174 S1+	71	127

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)

# Surrogate Summary

Client: Ashland LLC

Project/Site: Hercules Hattiesburg, MS

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

Job ID: 860-74285-1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-160971/10**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/18/24 12:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/18/24 12:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/18/24 12:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/18/24 12:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/18/24 12:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/18/24 12:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/18/24 12:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/18/24 12:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/18/24 12:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/18/24 12:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/18/24 12:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/18/24 12:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/18/24 12:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/18/24 12:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/18/24 12:08	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/18/24 12:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/18/24 12:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/18/24 12:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/18/24 12:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/18/24 12:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/18/24 12:08	1
Acetone	<3.07	U	100	3.07	ug/L			05/18/24 12:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/18/24 12:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/18/24 12:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/18/24 12:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/18/24 12:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/18/24 12:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/18/24 12:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/18/24 12:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/18/24 12:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/18/24 12:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/18/24 12:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/18/24 12:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/18/24 12:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/18/24 12:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/18/24 12:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/18/24 12:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/18/24 12:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/18/24 12:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/18/24 12:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/18/24 12:08	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/18/24 12:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/18/24 12:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/18/24 12:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/18/24 12:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/18/24 12:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/18/24 12:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/18/24 12:08	1

Eurofins Houston

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-160971/10**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/18/24 12:08	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/18/24 12:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/18/24 12:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/18/24 12:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/18/24 12:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/18/24 12:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/18/24 12:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/18/24 12:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/18/24 12:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/18/24 12:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/18/24 12:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/18/24 12:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/18/24 12:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/18/24 12:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/18/24 12:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/18/24 12:08	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/18/24 12:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/18/24 12:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/18/24 12:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/18/24 12:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/18/24 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		05/18/24 12:08	1
4-Bromofluorobenzene (Surr)	103		74 - 124		05/18/24 12:08	1
Dibromofluoromethane (Surr)	99		75 - 131		05/18/24 12:08	1
Toluene-d8 (Surr)	100		80 - 120		05/18/24 12:08	1

**Lab Sample ID: LCS 860-160971/3**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	55.31		ug/L		111	72 - 125
1,1,1-Trichloroethane	50.0	56.53		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	55.70		ug/L		111	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.17		ug/L		114	60 - 140
1,1,2-Trichloroethane	50.0	55.02		ug/L		110	75 - 130
1,1-Dichloroethane	50.0	55.61		ug/L		111	71 - 130
1,1-Dichloroethene	50.0	56.37		ug/L		113	50 - 150
1,2,3-Trichloropropane	50.0	54.69		ug/L		109	75 - 125
1,2,4-Trimethylbenzene	50.0	57.19		ug/L		114	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	57.28		ug/L		115	59 - 125
1,2-Dibromoethane	50.0	54.83		ug/L		110	73 - 125
1,2-Dichloroethane	50.0	52.85		ug/L		106	72 - 130
1,2-Dichloropropane	50.0	53.55		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	56.19		ug/L		112	60 - 140
1,3-Butadiene	50.0	53.86		ug/L		108	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160971/3**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	56.50		ug/L		113	70 - 130
2-Butanone (MEK)	250	283.8		ug/L		114	60 - 140
2-Hexanone (MBK)	250	286.0		ug/L		114	60 - 140
2-Propanol	500	494.6		ug/L		99	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	56.15		ug/L		112	70 - 130
4-Methyl-2-pentanone	250	276.0		ug/L		110	60 - 140
Acetone	250	295.2		ug/L		118	60 - 140
Acetonitrile	500	524.9		ug/L		105	60 - 140
Acrolein	250	250.8		ug/L		100	60 - 140
Acrylonitrile	500	552.6		ug/L		111	60 - 140
alpha-Chlorotoluene	50.0	62.51		ug/L		125	75 - 125
Benzene	50.0	54.90		ug/L		110	75 - 125
Bromodichloromethane	50.0	54.57		ug/L		109	75 - 125
Bromoform	50.0	55.69		ug/L		111	70 - 130
Bromomethane	50.0	48.06		ug/L		96	60 - 140
Carbon disulfide	50.0	57.25		ug/L		114	60 - 140
Carbon tetrachloride	50.0	55.60		ug/L		111	70 - 125
Chlorobenzene	50.0	54.36		ug/L		109	82 - 135
Chlorodibromomethane	50.0	53.99		ug/L		108	73 - 125
Chloroethane	50.0	52.82		ug/L		106	60 - 140
Chloroform	50.0	53.78		ug/L		108	70 - 121
Chloromethane	50.0	46.22		ug/L		92	60 - 140
Chloroprene	50.0	56.68		ug/L		113	70 - 130
cis-1,2-Dichloroethene	50.0	55.53		ug/L		111	75 - 125
cis-1,3-Dichloropropene	50.0	54.18		ug/L		108	74 - 125
Cumene (isopropylbenzene)	50.0	56.77		ug/L		114	75 - 125
Cyclohexane	50.0	57.23		ug/L		114	70 - 130
Dibromomethane	50.0	52.85		ug/L		106	69 - 127
Dichlorodifluoromethane	50.0	46.83		ug/L		94	50 - 150
Ethyl methacrylate	50.0	57.75		ug/L		116	70 - 130
Ethylbenzene	50.0	56.33		ug/L		113	75 - 125
Hexane	50.0	60.41		ug/L		121	72 - 125
Iodomethane	50.0	45.39		ug/L		91	75 - 125
Isobutanol	1240	1365		ug/L		110	60 - 140
Methacrylonitrile	500	537.6		ug/L		108	70 - 130
Methyl methacrylate	100	117.0		ug/L		117	70 - 130
Methyl tert-butyl ether	50.0	54.84		ug/L		110	65 - 135
Methylene Chloride	50.0	51.29		ug/L		103	71 - 125
Propionitrile	500	556.1		ug/L		111	70 - 130
Propylbenzene	50.0	57.07		ug/L		114	75 - 125
Styrene	50.0	56.43		ug/L		113	75 - 125
Tetrachloroethene	50.0	54.51		ug/L		109	71 - 125
Tetrahydrofuran	100	118.9		ug/L		119	75 - 125
Toluene	50.0	55.08		ug/L		110	75 - 130
trans-1,2-Dichloroethene	50.0	55.86		ug/L		112	75 - 125
trans-1,3-Dichloropropene	50.0	56.37		ug/L		113	66 - 125
trans-1,4-Dichloro-2-butene	50.0	56.23		ug/L		112	70 - 130
Trichloroethene	50.0	53.54		ug/L		107	75 - 135
Trichlorofluoromethane	50.0	52.38		ug/L		105	60 - 140

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-160971/3**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	289.0		ug/L		116	60 - 140
Vinyl chloride	50.0	52.40		ug/L		105	60 - 140
Xylenes, Total	100	113.7		ug/L		114	75 - 125
m,p-Xylenes	0.0500	0.05674		mg/L		113	75 - 125
o-Xylene	0.0500	0.05694		mg/L		114	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: LCSD 860-160971/4**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.17		ug/L		106	72 - 125	4	25
1,1,1-Trichloroethane	50.0	54.62		ug/L		109	70 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	54.66		ug/L		109	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.01		ug/L		112	60 - 140	2	25
1,1,2-Trichloroethane	50.0	52.28		ug/L		105	75 - 130	5	25
1,1-Dichloroethane	50.0	53.80		ug/L		108	71 - 130	3	25
1,1-Dichloroethene	50.0	55.44		ug/L		111	50 - 150	2	25
1,2,3-Trichloropropane	50.0	55.74		ug/L		111	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	56.71		ug/L		113	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	57.12		ug/L		114	59 - 125	0	25
1,2-Dibromoethane	50.0	52.81		ug/L		106	73 - 125	4	25
1,2-Dichloroethane	50.0	53.15		ug/L		106	72 - 130	1	25
1,2-Dichloropropane	50.0	54.42		ug/L		109	74 - 125	2	25
1,3,5-Trimethylbenzene	50.0	54.85		ug/L		110	60 - 140	2	25
1,3-Butadiene	50.0	53.15		ug/L		106	60 - 150	1	25
2,2,4-Trimethylpentane	50.0	55.19		ug/L		110	70 - 130	2	25
2-Butanone (MEK)	250	277.5		ug/L		111	60 - 140	2	25
2-Hexanone (MBK)	250	275.1		ug/L		110	60 - 140	4	25
2-Propanol	500	515.0		ug/L		103	70 - 120	4	25
3-Chloropropene (Allyl Chloride)	50.0	52.48		ug/L		105	70 - 130	7	25
4-Methyl-2-pentanone	250	274.8		ug/L		110	60 - 140	0	25
Acetone	250	278.4		ug/L		111	60 - 140	6	25
Acetonitrile	500	508.5		ug/L		102	60 - 140	3	25
Acrolein	250	246.5		ug/L		99	60 - 140	2	25
Acrylonitrile	500	528.8		ug/L		106	60 - 140	4	25
alpha-Chlorotoluene	50.0	62.72		ug/L		125	75 - 125	0	25
Benzene	50.0	54.49		ug/L		109	75 - 125	1	25
Bromodichloromethane	50.0	54.40		ug/L		109	75 - 125	0	25
Bromoform	50.0	54.28		ug/L		109	70 - 130	3	25
Bromomethane	50.0	48.14		ug/L		96	60 - 140	0	25
Carbon disulfide	50.0	54.94		ug/L		110	60 - 140	4	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-160971/4**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	52.86		ug/L		106	70 - 125	5	25
Chlorobenzene	50.0	52.83		ug/L		106	82 - 135	3	25
Chlorodibromomethane	50.0	52.99		ug/L		106	73 - 125	2	25
Chloroethane	50.0	52.22		ug/L		104	60 - 140	1	25
Chloroform	50.0	52.26		ug/L		105	70 - 121	3	25
Chloromethane	50.0	47.45		ug/L		95	60 - 140	3	25
Chloroprene	50.0	55.84		ug/L		112	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	54.58		ug/L		109	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	54.29		ug/L		109	74 - 125	0	25
Cumene (isopropylbenzene)	50.0	54.37		ug/L		109	75 - 125	4	25
Cyclohexane	50.0	54.65		ug/L		109	70 - 130	5	25
Dibromomethane	50.0	53.77		ug/L		108	69 - 127	2	25
Dichlorodifluoromethane	50.0	46.64		ug/L		93	50 - 150	0	25
Ethyl methacrylate	50.0	55.64		ug/L		111	70 - 130	4	25
Ethylbenzene	50.0	54.38		ug/L		109	75 - 125	4	25
Hexane	50.0	56.03		ug/L		112	72 - 125	8	25
Iodomethane	50.0	45.55		ug/L		91	75 - 125	0	25
Isobutanol	1240	1440		ug/L		116	60 - 140	5	25
Methacrylonitrile	500	529.9		ug/L		106	70 - 130	1	25
Methyl methacrylate	100	117.6		ug/L		118	70 - 130	0	25
Methyl tert-butyl ether	50.0	53.50		ug/L		107	65 - 135	2	25
Methylene Chloride	50.0	49.86		ug/L		100	71 - 125	3	25
Propionitrile	500	543.9		ug/L		109	70 - 130	2	25
Propylbenzene	50.0	55.57		ug/L		111	75 - 125	3	25
Styrene	50.0	54.95		ug/L		110	75 - 125	3	25
Tetrachloroethene	50.0	52.18		ug/L		104	71 - 125	4	25
Tetrahydrofuran	100	116.5		ug/L		117	75 - 125	2	25
Toluene	50.0	53.21		ug/L		106	75 - 130	3	25
trans-1,2-Dichloroethene	50.0	54.27		ug/L		109	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	55.25		ug/L		110	66 - 125	2	25
trans-1,4-Dichloro-2-butene	50.0	53.93		ug/L		108	70 - 130	4	25
Trichloroethene	50.0	54.41		ug/L		109	75 - 135	2	25
Trichlorofluoromethane	50.0	54.45		ug/L		109	60 - 140	4	25
Vinyl acetate	250	281.6		ug/L		113	60 - 140	3	25
Vinyl chloride	50.0	51.87		ug/L		104	60 - 140	1	25
Xylenes, Total	100	109.5		ug/L		109	75 - 125	4	25
m,p-Xylenes	0.0500	0.05480		mg/L		110	75 - 125	3	25
o-Xylene	0.0500	0.05468		mg/L		109	75 - 125	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	100		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	53.21		ug/L		106	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	52.21		ug/L		104	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	53.10		ug/L		106	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.05		ug/L		82	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	52.60		ug/L		105	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	51.51		ug/L		103	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	51.61		ug/L		103	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	53.30		ug/L		107	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	53.76		ug/L		108	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	57.19		ug/L		114	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	52.70		ug/L		105	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	50.60		ug/L		101	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	51.43		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	52.27		ug/L		105	70 - 125
1,3-Butadiene	<0.568	U	50.0	35.22		ug/L		70	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	39.01		ug/L		78	70 - 130
2-Butanone (MEK)	<8.28	U	250	273.2		ug/L		109	60 - 140
2-Hexanone (MBK)	<7.45	U	250	277.8		ug/L		111	60 - 140
2-Propanol	<5.23	U	500	493.8		ug/L		99	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	47.44		ug/L		95	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	271.3		ug/L		109	60 - 140
Acetone	<3.07	U	250	262.0		ug/L		105	60 - 140
Acetonitrile	<14.6	U	500	491.0		ug/L		98	60 - 140
Acrolein	<11.1	U	250	229.8		ug/L		92	50 - 150
Acrylonitrile	<14.3	U	500	522.4		ug/L		104	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	55.26		ug/L		111	70 - 130
Benzene	<0.460	U	50.0	51.11		ug/L		102	66 - 142
Bromodichloromethane	<0.552	U	50.0	52.20		ug/L		104	75 - 125
Bromoform	<0.633	U	50.0	53.47		ug/L		107	75 - 125
Bromomethane	<1.42	U	50.0	40.05		ug/L		80	60 - 140
Carbon disulfide	<1.65	U	50.0	49.10		ug/L		98	60 - 140
Carbon tetrachloride	<0.896	U	50.0	51.91		ug/L		104	62 - 125
Chlorobenzene	16.9		50.0	68.92		ug/L		104	60 - 133
Chlorodibromomethane	<0.547	U	50.0	51.69		ug/L		103	73 - 125
Chloroethane	<1.98	U	50.0	44.60		ug/L		89	60 - 140
Chloroform	<0.464	U	50.0	50.78		ug/L		102	70 - 130
Chloromethane	<2.04	U	50.0	32.90		ug/L		66	60 - 140
Chloroprene	<0.598	U	50.0	54.45		ug/L		109	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	52.82		ug/L		106	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	52.06		ug/L		104	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	53.36		ug/L		107	75 - 125
Cyclohexane	<1.29	U	50.0	44.45		ug/L		89	70 - 130
Dibromomethane	<0.357	U	50.0	51.64		ug/L		103	69 - 127
Dichlorodifluoromethane	<0.785	U F1	50.0	17.83	F1	ug/L		36	70 - 130
Ethyl methacrylate	<1.12	U	50.0	56.17		ug/L		112	70 - 130
Ethylbenzene	<0.385	U	50.0	52.74		ug/L		105	75 - 125
Hexane	<0.517	U	50.0	36.34		ug/L		73	72 - 125
Iodomethane	<6.52	U	50.0	40.05		ug/L		80	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1365		ug/L		110	60 - 140
Methacrylonitrile	<2.72	U	500	528.6		ug/L		106	70 - 130
Methyl methacrylate	<2.25	U	100	107.2		ug/L		107	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	53.24		ug/L		106	65 - 135
Methylene Chloride	<1.73	U	50.0	46.61		ug/L		93	75 - 125
Propionitrile	<3.34	U	500	526.5		ug/L		105	70 - 130
Propylbenzene	<0.429	U	50.0	52.93		ug/L		106	75 - 125
Styrene	<0.619	U	50.0	53.39		ug/L		107	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.31		ug/L		99	71 - 125
Tetrahydrofuran	<1.83	U	100	113.3		ug/L		113	75 - 125
Toluene	<0.475	U	50.0	51.41		ug/L		103	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	49.63		ug/L		99	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	53.51		ug/L		107	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	50.72		ug/L		101	70 - 130
Trichloroethene	<1.50	U	50.0	51.34		ug/L		103	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	41.25		ug/L		82	60 - 140
Vinyl acetate	<2.14	U	250	275.2		ug/L		110	60 - 140
Vinyl chloride	<0.428	U	50.0	36.95		ug/L		74	60 - 140
Xylenes, Total	<1.24	U	100	106.9		ug/L		107	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05351		mg/L		107	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05334		mg/L		107	75 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: 860-74285-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	51.29		ug/L		103	72 - 125	4	25
1,1,1-Trichloroethane	<0.585	U	50.0	51.86		ug/L		104	75 - 125	1	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	50.11		ug/L		100	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	44.18		ug/L		88	60 - 140	7	25
1,1,2-Trichloroethane	<0.411	U	50.0	50.34		ug/L		101	75 - 127	4	25
1,1-Dichloroethane	<0.635	U	50.0	50.59		ug/L		101	72 - 125	2	25
1,1-Dichloroethene	<0.738	U	50.0	49.90		ug/L		100	59 - 172	3	25
1,2,3-Trichloropropane	<0.470	U	50.0	50.73		ug/L		101	75 - 125	5	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	51.00		ug/L		102	75 - 125	5	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	53.21		ug/L		106	59 - 125	7	25
1,2-Dibromoethane	<0.999	U	50.0	51.33		ug/L		103	73 - 125	3	25
1,2-Dichloroethane	<0.372	U	50.0	48.49		ug/L		97	68 - 127	4	25
1,2-Dichloropropane	<0.556	U	50.0	49.63		ug/L		99	74 - 125	4	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	49.33		ug/L		99	70 - 125	6	25
1,3-Butadiene	<0.568	U	50.0	36.29		ug/L		73	70 - 150	3	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74285-13 MSD**

**Client Sample ID: MW-18**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 160971**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	41.40		ug/L		83	70 - 130	6	25
2-Butanone (MEK)	<8.28	U	250	260.2		ug/L		104	60 - 140	5	25
2-Hexanone (MBK)	<7.45	U	250	267.4		ug/L		107	60 - 140	4	25
2-Propanol	<5.23	U	500	517.9		ug/L		104	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	45.75		ug/L		91	70 - 130	4	25
4-Methyl-2-pentanone	<7.49	U	250	263.4		ug/L		105	60 - 140	3	25
Acetone	<3.07	U	250	264.8		ug/L		106	60 - 140	1	25
Acetonitrile	<14.6	U	500	477.2		ug/L		95	60 - 140	3	25
Acrolein	<11.1	U	250	217.4		ug/L		87	50 - 150	6	25
Acrylonitrile	<14.3	U	500	506.0		ug/L		101	50 - 150	3	25
alpha-Chlorotoluene	<2.26	U	50.0	52.70		ug/L		105	70 - 130	5	25
Benzene	<0.460	U	50.0	50.18		ug/L		100	66 - 142	2	25
Bromodichloromethane	<0.552	U	50.0	50.75		ug/L		102	75 - 125	3	25
Bromoform	<0.633	U	50.0	51.99		ug/L		104	75 - 125	3	25
Bromomethane	<1.42	U	50.0	39.09		ug/L		78	60 - 140	2	25
Carbon disulfide	<1.65	U	50.0	48.14		ug/L		96	60 - 140	2	25
Carbon tetrachloride	<0.896	U	50.0	50.12		ug/L		100	62 - 125	4	25
Chlorobenzene	16.9		50.0	66.31		ug/L		99	60 - 133	4	25
Chlorodibromomethane	<0.547	U	50.0	50.18		ug/L		100	73 - 125	3	25
Chloroethane	<1.98	U	50.0	44.43		ug/L		89	60 - 140	0	25
Chloroform	<0.464	U	50.0	49.35		ug/L		99	70 - 130	3	25
Chloromethane	<2.04	U	50.0	32.27		ug/L		65	60 - 140	2	25
Chloroprene	<0.598	U	50.0	53.33		ug/L		107	70 - 130	2	25
cis-1,2-Dichloroethene	<0.457	U	50.0	51.89		ug/L		104	75 - 125	2	25
cis-1,3-Dichloropropene	<1.07	U	50.0	50.15		ug/L		100	74 - 125	4	25
Cumene (isopropylbenzene)	<0.592	U	50.0	52.32		ug/L		105	75 - 125	2	25
Cyclohexane	<1.29	U	50.0	45.24		ug/L		90	70 - 130	2	25
Dibromomethane	<0.357	U	50.0	49.04		ug/L		98	69 - 127	5	25
Dichlorodifluoromethane	<0.785	U F1	50.0	19.92	F1	ug/L		40	70 - 130	11	25
Ethyl methacrylate	<1.12	U	50.0	54.28		ug/L		109	70 - 130	3	25
Ethylbenzene	<0.385	U	50.0	51.33		ug/L		103	75 - 125	3	25
Hexane	<0.517	U	50.0	38.76		ug/L		78	72 - 125	6	25
Iodomethane	<6.52	U	50.0	41.89		ug/L		84	75 - 125	4	25
Isobutanol	<17.1	U	1240	1403		ug/L		113	60 - 140	3	25
Methacrylonitrile	<2.72	U	500	513.8		ug/L		103	70 - 130	3	25
Methyl methacrylate	<2.25	U	100	102.5		ug/L		102	70 - 130	4	25
Methyl tert-butyl ether	<1.39	U	50.0	51.60		ug/L		103	65 - 135	3	25
Methylene Chloride	<1.73	U	50.0	46.62		ug/L		93	75 - 125	0	25
Propionitrile	<3.34	U	500	517.6		ug/L		104	70 - 130	2	25
Propylbenzene	<0.429	U	50.0	50.18		ug/L		100	75 - 125	5	25
Styrene	<0.619	U	50.0	51.84		ug/L		104	75 - 125	3	25
Tetrachloroethene	<0.655	U	50.0	48.97		ug/L		98	71 - 125	1	25
Tetrahydrofuran	<1.83	U	100	108.6		ug/L		109	75 - 125	4	25
Toluene	<0.475	U	50.0	49.47		ug/L		99	59 - 139	4	25
trans-1,2-Dichloroethene	<0.368	U	50.0	49.29		ug/L		99	75 - 125	1	25
trans-1,3-Dichloropropene	<1.27	U	50.0	51.93		ug/L		104	66 - 125	3	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	49.02		ug/L		98	70 - 130	3	25
Trichloroethene	<1.50	U	50.0	50.01		ug/L		100	62 - 137	3	25
Trichlorofluoromethane	<0.560	U	50.0	42.00		ug/L		84	60 - 140	2	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74285-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 160971**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Vinyl acetate	<2.14	U	250	266.2		ug/L		106	60 - 140	3	25
Vinyl chloride	<0.428	U	50.0	38.23		ug/L		76	60 - 140	3	25
Xylenes, Total	<1.24	U	100	103.3		ug/L		103	75 - 125	3	25
m,p-Xylenes	<0.00124	U	0.0500	0.05149		mg/L		103	75 - 125	4	25
o-Xylene	<0.000502	U	0.0500	0.05181		mg/L		104	75 - 125	3	25
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>	<b>Qualifier</b>	<b>Limits</b>							
1,2-Dichloroethane-d4 (Surr)	98			63 - 144							
4-Bromofluorobenzene (Surr)	101			74 - 124							
Dibromofluoromethane (Surr)	102			75 - 131							
Toluene-d8 (Surr)	99			80 - 120							

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-161269/1-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 16:16	05/21/24 12:33	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 16:16	05/21/24 12:33	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 16:16	05/21/24 12:33	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/20/24 16:16	05/21/24 12:33	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 12:33	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 16:16	05/21/24 12:33	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 16:16	05/21/24 12:33	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 16:16	05/21/24 12:33	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161269/1-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 16:16	05/21/24 12:33	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 16:16	05/21/24 12:33	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 16:16	05/21/24 12:33	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 16:16	05/21/24 12:33	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 16:16	05/21/24 12:33	1
Benzyl alcohol	0.8226	J	1.14	0.600	ug/L		05/20/24 16:16	05/21/24 12:33	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 16:16	05/21/24 12:33	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 16:16	05/21/24 12:33	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 16:16	05/21/24 12:33	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 12:33	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 16:16	05/21/24 12:33	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 16:16	05/21/24 12:33	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 12:33	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 16:16	05/21/24 12:33	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 16:16	05/21/24 12:33	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 16:16	05/21/24 12:33	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 16:16	05/21/24 12:33	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 16:16	05/21/24 12:33	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 16:16	05/21/24 12:33	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 16:16	05/21/24 12:33	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 16:16	05/21/24 12:33	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 16:16	05/21/24 12:33	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 16:16	05/21/24 12:33	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 12:33	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 16:16	05/21/24 12:33	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 16:16	05/21/24 12:33	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 16:16	05/21/24 12:33	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 16:16	05/21/24 12:33	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 16:16	05/21/24 12:33	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 16:16	05/21/24 12:33	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 16:16	05/21/24 12:33	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 16:16	05/21/24 12:33	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 16:16	05/21/24 12:33	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 16:16	05/21/24 12:33	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 16:16	05/21/24 12:33	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 16:16	05/21/24 12:33	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/20/24 16:16	05/21/24 12:33	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 16:16	05/21/24 12:33	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161269/1-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/20/24 16:16	05/21/24 12:33	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 16:16	05/21/24 12:33	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 16:16	05/21/24 12:33	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/20/24 16:16	05/21/24 12:33	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/20/24 16:16	05/21/24 12:33	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 16:16	05/21/24 12:33	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 12:33	1
alpha, alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/20/24 16:16	05/21/24 12:33	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 16:16	05/21/24 12:33	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 12:33	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 16:16	05/21/24 12:33	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 12:33	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 16:16	05/21/24 12:33	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 16:16	05/21/24 12:33	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 16:16	05/21/24 12:33	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/20/24 16:16	05/21/24 12:33	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 16:16	05/21/24 12:33	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 16:16	05/21/24 12:33	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 16:16	05/21/24 12:33	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 16:16	05/21/24 12:33	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 16:16	05/21/24 12:33	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 12:33	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 16:16	05/21/24 12:33	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 16:16	05/21/24 12:33	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 16:16	05/21/24 12:33	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 16:16	05/21/24 12:33	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 16:16	05/21/24 12:33	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 16:16	05/21/24 12:33	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 16:16	05/21/24 12:33	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 16:16	05/21/24 12:33	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 12:33	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 12:33	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 16:16	05/21/24 12:33	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/20/24 16:16	05/21/24 12:33	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 16:16	05/21/24 12:33	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 16:16	05/21/24 12:33	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 16:16	05/21/24 12:33	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 16:16	05/21/24 12:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	91		35 - 130	05/20/24 16:16	05/21/24 12:33	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161269/1-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	97		43 - 130	05/20/24 16:16	05/21/24 12:33	1
2-Fluorophenol (Surr)	70		19 - 120	05/20/24 16:16	05/21/24 12:33	1
Nitrobenzene-d5 (Surr)	118		37 - 133	05/20/24 16:16	05/21/24 12:33	1
Phenol-d5 (Surr)	47		8 - 124	05/20/24 16:16	05/21/24 12:33	1
p-Terphenyl-d14	83		47 - 130	05/20/24 16:16	05/21/24 12:33	1

**Lab Sample ID: LCS 860-161269/2-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	1.586		ug/L		55	32 - 130
1,2-Dichlorobenzene	2.86	1.727		ug/L		60	32 - 130
1,3-Dichlorobenzene	2.86	1.586		ug/L		55	26 - 130
1,4-Dichlorobenzene	2.86	1.609		ug/L		56	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.582	J I	ug/L		90	10 - 173
2,4,5-Trichlorophenol	2.86	2.629		ug/L		92	35 - 130
2,4,6-Trichlorophenol	2.86	2.061		ug/L		72	52 - 129
2,4-Dichlorophenol	2.86	2.309		ug/L		81	53 - 122
2,4-Dimethylphenol	2.86	1.616		ug/L		57	42 - 120
1,4-Dioxane	2.86	0.8889		ug/L		31	27 - 130
2,4-Dinitrophenol	2.86	1.444	J	ug/L		51	12 - 173
2,4-Dinitrotoluene	2.86	2.546		ug/L		89	48 - 127
2,6-Dinitrotoluene	2.86	2.525		ug/L		88	68 - 137
2-Chloronaphthalene	2.86	1.753		ug/L		61	10 - 130
2-Methylnaphthalene	2.86	1.981		ug/L		69	25 - 175
2-Methylphenol	2.86	2.091		ug/L		73	14 - 176
2-Nitroaniline	2.86	1.974		ug/L		69	59 - 130
2-Nitrophenol	2.86	2.921		ug/L		102	45 - 167
3 & 4 Methylphenol	2.86	2.009		ug/L		70	22 - 130
3-Nitroaniline	2.86	1.095		ug/L		38	30 - 130
4,6-Dinitro-2-methylphenol	2.86	1.393		ug/L		49	10 - 130
4-Bromophenyl phenyl ether	2.86	2.233		ug/L		78	65 - 120
4-Chloro-3-methylphenol	2.86	2.391		ug/L		84	41 - 128
4-Chloroaniline	2.86	1.063		ug/L		37	30 - 130
4-Chlorophenyl phenyl ether	2.86	1.958		ug/L		69	38 - 145
4-Nitroaniline	2.86	1.007	*-	ug/L		35	42 - 125
Acenaphthene	2.86	2.279		ug/L		80	60 - 132
Acenaphthylene	2.86	2.165		ug/L		76	54 - 126
Aniline	2.86	0.7068		ug/L		25	15 - 130
Anthracene	2.86	1.985		ug/L		69	43 - 135
Benzo[a]anthracene	2.86	2.500		ug/L		87	42 - 133
Benzo[a]pyrene	2.86	2.484		ug/L		87	32 - 148
Benzo[b]fluoranthene	2.86	2.390		ug/L		84	42 - 140
Benzo[g,h,i]perylene	2.86	2.353		ug/L		82	25 - 195
Benzo[k]fluoranthene	2.86	2.688		ug/L		94	25 - 146
Benzyl alcohol	2.86	2.406		ug/L		84	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.426		ug/L		85	49 - 165

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161269/2-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	2.86	2.604		ug/L		91	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	2.605		ug/L		91	29 - 137
Butyl benzyl phthalate	2.86	2.390		ug/L		84	28 - 130
Chrysene	2.86	2.701		ug/L		95	47 - 130
Dibenz(a,h)anthracene	2.86	2.330		ug/L		82	32 - 200
Dibenzofuran	2.86	2.163		ug/L		76	48 - 130
Diethyl phthalate	2.86	2.258		ug/L		79	53 - 120
Dimethyl phthalate	2.86	2.225		ug/L		78	67 - 120
Di-n-butyl phthalate	2.86	2.232		ug/L		78	8 - 120
Di-n-octyl phthalate	2.86	2.348		ug/L		82	19 - 200
Fluoranthene	2.86	2.451		ug/L		86	43 - 130
Fluorene	2.86	2.128		ug/L		74	70 - 130
Hexachlorobenzene	2.86	2.560		ug/L		90	8 - 142
Hexachlorobutadiene	2.86	1.083		ug/L		38	10 - 130
Hexachlorocyclopentadiene	2.86	1.053		ug/L		37	10 - 130
Hexachloroethane	2.86	1.161		ug/L		41	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	2.326		ug/L		81	29 - 151
Isophorone	2.86	2.409		ug/L		84	47 - 180
Naphthalene	2.86	2.160		ug/L		76	36 - 120
Nitrobenzene	2.86	2.522		ug/L		88	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.258		ug/L		79	14 - 198
N-Nitrosodiphenylamine	2.86	2.086		ug/L		73	40 - 127
Pentachlorophenol	2.86	2.489		ug/L		87	38 - 152
Phenanthrene	2.86	2.353		ug/L		82	65 - 120
Phenol	2.86	1.319	J	ug/L		46	17 - 120
Pyrene	2.86	2.206		ug/L		77	70 - 130
Pyridine	2.86	<1.44	U	ug/L		14	1 - 126
N-Nitro-o-toluidine	2.86	1.201	*-	ug/L		42	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.467		ug/L		86	33 - 132
Acetophenone	2.86	2.475		ug/L		87	58 - 130
N-Nitrosopiperidine	2.86	2.086		ug/L		73	54 - 130
Pentachlorobenzene	2.86	1.823		ug/L		64	47 - 130
Diphenyl ether	2.86	2.137		ug/L		75	61 - 130
1,1'-Biphenyl	2.86	2.035		ug/L		71	52 - 130
4-Aminobiphenyl	2.86	0.9377	*-	ug/L		33	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.504		ug/L		53	52 - 130
1,3,5-Trinitrobenzene	2.86	2.659		ug/L		93	42 - 130
1,3-Dinitrobenzene	2.86	2.532		ug/L		89	54 - 130
1,4-Naphthoquinone	2.86	2.310		ug/L		81	34 - 130
1-Naphthylamine	2.86	0.5260	J *-	ug/L		18	40 - 130
2,6-Dichlorophenol	2.86	2.170		ug/L		76	40 - 130
2-Acetylaminofluorene	2.86	4.089		ug/L		143	50 - 150
2-Chlorophenol	2.86	2.433		ug/L		85	36 - 120
2-Naphthylamine	2.86	0.7898	*-	ug/L		28	30 - 130
2-Picoline	2.86	0.6864		ug/L		24	22 - 130
2-Toluidine	2.86	1.180		ug/L		41	30 - 130
3,3'-Dichlorobenzidine	2.86	0.9514		ug/L		33	20 - 150
3,3'-Dimethylbenzidine	2.86	0.1980	J *-	ug/L		7	30 - 130
3-Methylcholanthrene	2.86	1.451	*-	ug/L		51	53 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161269/2-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroquinoline-1-oxide	2.86	3.004		ug/L		105	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	2.471		ug/L		86	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *	ug/L		0	20 - 130
Aramite Peak 1	1.43	1.208		ug/L		85	69 - 130
Aramite Peak 2	1.43	1.192		ug/L		83	65 - 130
Diallate Peak 1	2.11	1.410	*-	ug/L		67	69 - 130
Diallate Peak 2	0.743	0.5900		ug/L		79	67 - 130
Ethyl methanesulfonate	2.86	1.949		ug/L		68	54 - 130
Hexachloropropene	2.86	1.201		ug/L		42	37 - 130
Isosafrole Peak 1	0.457	0.2835	J	ug/L		62	54 - 130
Isosafrole Peak 2	2.40	1.312	*-	ug/L		55	62 - 130
Methyl methanesulfonate	2.86	0.9699	I	ug/L		34	30 - 130
N-Nitrosodiethylamine	2.86	2.193		ug/L		77	54 - 130
N-Nitrosodimethylamine	2.86	0.7189	*-	ug/L		25	28 - 126
N-Nitrosodi-n-butylamine	2.86	2.147		ug/L		75	58 - 130
N-Nitrosomethylethylamine	2.86	1.536		ug/L		54	45 - 130
N-Nitrosomorpholine	2.86	1.092		ug/L		38	37 - 130
N-Nitrosopyrrolidine	2.86	1.316	*-	ug/L		46	47 - 130
p-Dimethylamino azobenzene	2.86	1.526	*-	ug/L		53	61 - 130
Pentachloronitrobenzene	2.86	2.496		ug/L		87	56 - 130
Phenacetin	2.86	2.361		ug/L		83	70 - 130
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120
Pronamide	2.86	2.307		ug/L		81	70 - 130
Safrole, Total	2.86	2.210		ug/L		77	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	104		35 - 130
2-Fluorobiphenyl	98		43 - 130
2-Fluorophenol (Surr)	77		19 - 120
Nitrobenzene-d5 (Surr)	127		37 - 133
Phenol-d5 (Surr)	51		8 - 124
p-Terphenyl-d14	84		47 - 130

**Lab Sample ID: LCS 860-161269/4-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	3.817		ug/L		67	45 - 138
Dinoseb	5.71	5.879		ug/L		103	49 - 130
Disulfoton	5.71	3.999		ug/L		70	38 - 134
Ethyl Parathion	5.71	4.968		ug/L		87	25 - 173
Famphur	2.86	2.552		ug/L		89	43 - 142
Methapyrilene	5.71	6.716		ug/L		118	70 - 183
Methyl parathion	5.71	4.923		ug/L		86	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.349		ug/L		82	43 - 130
Phorate	5.71	4.343		ug/L		76	37 - 140
Sulfotepp	5.71	4.047		ug/L		71	28 - 158

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161269/4-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thionazin	2.86	1.996		ug/L		70	50 - 150
<b>Surrogate</b>							
	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
2,4,6-Tribromophenol (Surr)	114		35 - 130				
2-Fluorobiphenyl	109		43 - 130				
2-Fluorophenol (Surr)	75		19 - 120				
Nitrobenzene-d5 (Surr)	143	S1+	37 - 133				
Phenol-d5 (Surr)	48		8 - 124				
p-Terphenyl-d14	102		47 - 130				

**Lab Sample ID: LCSD 860-161269/3-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,2,4-Trichlorobenzene	2.86	1.750		ug/L		61	32 - 130	10	30
1,2-Dichlorobenzene	2.86	1.757		ug/L		62	32 - 130	2	30
1,3-Dichlorobenzene	2.86	1.600		ug/L		56	26 - 130	1	30
1,4-Dichlorobenzene	2.86	1.624		ug/L		57	28 - 130	1	30
2,2'-oxybis[1-chloropropane]	2.86	2.842	J	ug/L		99	10 - 173	10	30
2,4,5-Trichlorophenol	2.86	2.925		ug/L		102	35 - 130	11	30
2,4,6-Trichlorophenol	2.86	2.651		ug/L		93	52 - 129	25	30
2,4-Dichlorophenol	2.86	2.880		ug/L		101	53 - 122	22	30
2,4-Dimethylphenol	2.86	1.809		ug/L		63	42 - 120	11	30
1,4-Dioxane	2.86	1.007		ug/L		35	27 - 130	12	30
2,4-Dinitrophenol	2.86	1.695	J	ug/L		59	12 - 173	16	30
2,4-Dinitrotoluene	2.86	2.979		ug/L		104	48 - 127	16	30
2,6-Dinitrotoluene	2.86	3.139		ug/L		110	68 - 137	22	30
2-Chloronaphthalene	2.86	1.983		ug/L		69	10 - 130	12	30
2-Methylnaphthalene	2.86	2.209		ug/L		77	25 - 175	11	30
2-Methylphenol	2.86	2.303		ug/L		81	14 - 176	10	30
2-Nitroaniline	2.86	2.210		ug/L		77	59 - 130	11	30
2-Nitrophenol	2.86	3.501		ug/L		123	45 - 167	18	30
3 & 4 Methylphenol	2.86	2.281		ug/L		80	22 - 130	13	30
3-Nitroaniline	2.86	1.348		ug/L		47	30 - 130	21	30
4,6-Dinitro-2-methylphenol	2.86	1.939	*1	ug/L		68	10 - 130	33	30
4-Bromophenyl phenyl ether	2.86	2.658		ug/L		93	65 - 120	17	30
4-Chloro-3-methylphenol	2.86	2.911		ug/L		102	41 - 128	20	30
4-Chloroaniline	2.86	1.320		ug/L		46	30 - 130	22	30
4-Chlorophenyl phenyl ether	2.86	2.380		ug/L		83	38 - 145	19	30
4-Nitroaniline	2.86	1.179	*-	ug/L		41	42 - 125	16	30
Acenaphthene	2.86	2.567		ug/L		90	60 - 132	12	30
Acenaphthylene	2.86	2.566		ug/L		90	54 - 126	17	30
Aniline	2.86	0.9003		ug/L		32	15 - 130	24	30
Anthracene	2.86	2.300		ug/L		81	43 - 135	15	30
Benzo[a]anthracene	2.86	2.894		ug/L		101	42 - 133	15	30
Benzo[a]pyrene	2.86	2.578		ug/L		90	32 - 148	4	30
Benzo[b]fluoranthene	2.86	2.674		ug/L		94	42 - 140	11	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161269/3-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[g,h,i]perylene	2.86	2.344		ug/L		82	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	2.576		ug/L		90	25 - 146	4	30	
Benzyl alcohol	2.86	2.780		ug/L		97	57 - 130	14	30	
Bis(2-chloroethoxy)methane	2.86	2.895		ug/L		101	49 - 165	18	30	
Bis(2-chloroethyl)ether	2.86	2.820		ug/L		99	43 - 126	8	30	
Bis(2-ethylhexyl) phthalate	2.86	3.091		ug/L		108	29 - 137	17	30	
Butyl benzyl phthalate	2.86	2.878		ug/L		101	28 - 130	19	30	
Chrysene	2.86	3.008		ug/L		105	47 - 130	11	30	
Dibenz(a,h)anthracene	2.86	2.460		ug/L		86	32 - 200	5	30	
Dibenzofuran	2.86	2.544		ug/L		89	48 - 130	16	30	
Diethyl phthalate	2.86	2.812		ug/L		98	53 - 120	22	30	
Dimethyl phthalate	2.86	2.647		ug/L		93	67 - 120	17	30	
Di-n-butyl phthalate	2.86	2.651		ug/L		93	8 - 120	17	30	
Di-n-octyl phthalate	2.86	2.821		ug/L		99	19 - 200	18	30	
Fluoranthene	2.86	2.850		ug/L		100	43 - 130	15	30	
Fluorene	2.86	2.557		ug/L		89	70 - 130	18	30	
Hexachlorobenzene	2.86	2.778		ug/L		97	8 - 142	8	30	
Hexachlorobutadiene	2.86	1.044		ug/L		37	10 - 130	4	30	
Hexachlorocyclopentadiene	2.86	1.019		ug/L		36	10 - 130	3	30	
Hexachloroethane	2.86	1.193		ug/L		42	10 - 130	3	30	
Indeno[1,2,3-cd]pyrene	2.86	2.390		ug/L		84	29 - 151	3	30	
Isophorone	2.86	2.975		ug/L		104	47 - 180	21	30	
Naphthalene	2.86	2.367		ug/L		83	36 - 120	9	30	
Nitrobenzene	2.86	3.135		ug/L		110	54 - 130	22	30	
N-Nitrosodi-n-propylamine	2.86	2.605		ug/L		91	14 - 198	14	30	
N-Nitrosodiphenylamine	2.86	2.600		ug/L		91	40 - 127	22	30	
Pentachlorophenol	2.86	2.744		ug/L		96	38 - 152	10	30	
Phenanthrene	2.86	2.728		ug/L		95	65 - 120	15	30	
Phenol	2.86	1.427	J	ug/L		50	17 - 120	8	30	
Pyrene	2.86	2.470		ug/L		86	70 - 130	11	30	
Pyridine	2.86	<1.44	U *1	ug/L		26	1 - 126	60	30	
N-Nitro-o-toluidine	2.86	1.577		ug/L		55	47 - 130	27	30	
2,3,4,6-Tetrachlorophenol	2.86	2.861		ug/L		100	33 - 132	15	30	
Acetophenone	2.86	2.943		ug/L		103	58 - 130	17	30	
N-Nitrosopiperidine	2.86	2.362		ug/L		83	54 - 130	12	30	
Pentachlorobenzene	2.86	2.205		ug/L		77	47 - 130	19	30	
Diphenyl ether	2.86	2.414		ug/L		84	61 - 130	12	30	
1,1'-Biphenyl	2.86	2.356		ug/L		82	52 - 130	15	30	
4-Aminobiphenyl	2.86	1.099		ug/L		38	35 - 130	16	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.631		ug/L		57	52 - 130	8	30	
1,3,5-Trinitrobenzene	2.86	3.065		ug/L		107	42 - 130	14	30	
1,3-Dinitrobenzene	2.86	3.190		ug/L		112	54 - 130	23	30	
1,4-Naphthoquinone	2.86	2.822		ug/L		99	34 - 130	20	30	
1-Naphthylamine	2.86	0.7123	*-	ug/L		25	40 - 130	30	30	
2,6-Dichlorophenol	2.86	2.579		ug/L		90	40 - 130	17	30	
2-Acetylaminofluorene	2.86	4.908	*+	ug/L		172	50 - 150	18	30	
2-Chlorophenol	2.86	2.754		ug/L		96	36 - 120	12	30	
2-Naphthylamine	2.86	1.016		ug/L		36	30 - 130	25	30	
2-Picoline	2.86	1.068	*1	ug/L		37	22 - 130	44	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161269/3-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
2-Toluidine	2.86	0.9015		ug/L		32	30 - 130	27	30	
3,3'-Dichlorobenzidine	2.86	1.087		ug/L		38	20 - 150	13	30	
3,3'-Dimethylbenzidine	2.86	0.4651	J * - *1	ug/L		16	30 - 130	81	30	
3-Methylcholanthrene	2.86	1.453	*-	ug/L		51	53 - 130	0	30	
4-Nitroquinoline-1-oxide	2.86	3.275		ug/L		115	39 - 130	9	30	
7,12-Dimethylbenz(a)anthracene	2.86	2.555		ug/L		89	63 - 130	3	30	
alpha,alpha-Dimethylphenethylamine	2.86	<3.67	U * -	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	1.516		ug/L		106	69 - 130	23	30	
Aramite Peak 2	1.43	1.542		ug/L		108	65 - 130	26	30	
Diallate Peak 1	2.11	1.757		ug/L		83	69 - 130	22	30	
Diallate Peak 2	0.743	0.7007		ug/L		94	67 - 130	17	30	
Ethyl methanesulfonate	2.86	2.211		ug/L		77	54 - 130	13	30	
Hexachloropropene	2.86	1.280		ug/L		45	37 - 130	6	30	
Isosafrole Peak 1	0.457	0.2957	J	ug/L		65	54 - 130	4	30	
Isosafrole Peak 2	2.40	1.490		ug/L		62	62 - 130	13	30	
Methyl methanesulfonate	2.86	1.104		ug/L		39	30 - 130	13	30	
N-Nitrosodiethylamine	2.86	2.470		ug/L		86	54 - 130	12	30	
N-Nitrosodimethylamine	2.86	0.8730		ug/L		31	28 - 126	19	30	
N-Nitrosodi-n-butylamine	2.86	2.678		ug/L		94	58 - 130	22	30	
N-Nitrosomethylethylamine	2.86	1.825		ug/L		64	45 - 130	17	30	
N-Nitrosomorpholine	2.86	1.325		ug/L		46	37 - 130	19	30	
N-Nitrosopyrrolidine	2.86	1.554		ug/L		54	47 - 130	17	30	
p-Dimethylamino azobenzene	2.86	1.797		ug/L		63	61 - 130	16	30	
Pentachloronitrobenzene	2.86	3.161		ug/L		111	56 - 130	24	30	
Phenacetin	2.86	2.815		ug/L		99	70 - 130	18	30	
p-Phenylene diamine	2.86	<0.500	U * -	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	2.757		ug/L		96	70 - 130	18	30	
Safrole, Total	2.86	2.610		ug/L		91	70 - 130	17	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	114		35 - 130
2-Fluorobiphenyl	106		43 - 130
2-Fluorophenol (Surr)	80		19 - 120
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133
Phenol-d5 (Surr)	55		8 - 124
p-Terphenyl-d14	94		47 - 130

**Lab Sample ID: LCSD 860-161269/5-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Dimethoate	5.71	5.016		ug/L		88	45 - 138	27	30	
Dinoseb	5.71	7.845	*+	ug/L		137	49 - 130	29	30	
Disulfoton	5.71	5.092		ug/L		89	38 - 134	24	30	
Ethyl Parathion	5.71	6.260		ug/L		110	25 - 173	23	30	
Famphur	2.86	3.231		ug/L		113	43 - 142	23	30	
Methapyrilene	5.71	8.651		ug/L		151	70 - 183	25	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161269/5-A**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Methyl parathion	5.71	6.349		ug/L		111	26 - 159	25	30	
o,o',o"-Triethylphosphorothioate	2.86	2.512		ug/L		88	43 - 130	7	30	
Phorate	5.71	5.145		ug/L		90	37 - 140	17	30	
Sulfotepp	5.71	4.807		ug/L		84	28 - 158	17	30	
Thionazin	2.86	2.261		ug/L		79	50 - 150	12	30	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	110		43 - 130
2-Fluorophenol (Surr)	81		19 - 120
Nitrobenzene-d5 (Surr)	146	S1+	37 - 133
Phenol-d5 (Surr)	55		8 - 124
p-Terphenyl-d14	94		47 - 130

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1,2,4-Trichlorobenzene	<0.0766	U F1	2.86	1.166	F1	ug/L		41	44 - 142	
1,2-Dichlorobenzene	0.197	J F1	2.86	1.448	F1	ug/L		44	51 - 130	
1,3-Dichlorobenzene	<0.102	U F1	2.86	1.191	F1	ug/L		42	47 - 130	
1,4-Dichlorobenzene	0.364	J F1	2.86	1.483	F1	ug/L		39	46 - 130	
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	2.544	J I	ug/L		89	36 - 166	
2,4,5-Trichlorophenol	<0.143	U F1	2.86	3.224		ug/L		113	35 - 130	
2,4,6-Trichlorophenol	<0.231	U	2.86	3.132		ug/L		110	37 - 144	
2,4-Dichlorophenol	<0.140	U	2.86	2.939		ug/L		103	39 - 135	
2,4-Dimethylphenol	<0.192	U	2.86	2.973		ug/L		104	32 - 120	
1,4-Dioxane	11.4		2.86	13.43		ug/L		71	28 - 130	
2,4-Dinitrophenol	<0.104	U	2.86	1.899	J	ug/L		66	26 - 191	
2,4-Dinitrotoluene	<0.205	U F1	2.86	3.449		ug/L		121	39 - 139	
2,6-Dinitrotoluene	<0.116	U F1	2.86	3.643		ug/L		128	50 - 158	
2-Chloronaphthalene	<0.378	U F1	2.86	1.465	F1	ug/L		51	60 - 120	
2-Methylnaphthalene	<0.0603	U	2.86	1.493		ug/L		52	25 - 175	
2-Methylphenol	<0.105	U	2.86	2.629		ug/L		92	14 - 176	
2-Nitroaniline	<0.149	U F1	2.86	3.816	F1	ug/L		134	59 - 130	
2-Nitrophenol	<0.136	U	2.86	4.005		ug/L		140	29 - 182	
3 & 4 Methylphenol	<0.139	U	2.86	3.067		ug/L		107	22 - 130	
3-Nitroaniline	<0.0853	U F2	2.86	1.463		ug/L		51	30 - 130	
4,6-Dinitro-2-methylphenol	<0.201	U *1	2.86	2.965		ug/L		104	25 - 181	
4-Bromophenyl phenyl ether	<0.100	U	2.86	2.023		ug/L		71	53 - 127	
4-Chloro-3-methylphenol	<0.104	U	2.86	3.178		ug/L		111	22 - 147	
4-Chloroaniline	<0.0385	U F2	2.86	1.021		ug/L		36	30 - 130	
4-Chlorophenyl phenyl ether	<0.130	U	2.86	1.557		ug/L		55	25 - 158	
4-Nitroaniline	<0.109	U *-	2.86	2.289	I	ug/L		80	53 - 130	
Acenaphthene	0.914		2.86	2.569		ug/L		58	47 - 145	
Acenaphthylene	<0.0996	U	2.86	2.289		ug/L		80	33 - 145	
Aniline	<0.0580	U F2	2.86	1.055	I	ug/L		37	20 - 130	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Anthracene	<0.0938	U	2.86	2.180		ug/L		76	27 - 133
Benzo[a]anthracene	<0.0286	U	2.86	2.568		ug/L		90	33 - 143
Benzo[a]pyrene	<0.0100	U	2.86	2.373		ug/L		83	17 - 163
Benzo[b]fluoranthene	<0.0664	U	2.86	2.184		ug/L		76	24 - 159
Benzo[g,h,i]perylene	<0.0345	U	2.86	1.994		ug/L		70	25 - 219
Benzo[k]fluoranthene	<0.0473	U	2.86	2.143		ug/L		75	11 - 162
Benzyl alcohol	1.26	B	2.86	3.493		ug/L		78	57 - 130
Bis(2-chloroethoxy)methane	<0.0974	U	2.86	2.520		ug/L		88	33 - 184
Bis(2-chloroethyl)ether	0.645	I	2.86	3.191		ug/L		89	12 - 158
Bis(2-ethylhexyl) phthalate	<0.900	U	2.86	3.620		ug/L		127	8 - 158
Butyl benzyl phthalate	<0.500	U F1	2.86	3.576		ug/L		125	70 - 152
Chrysene	<0.0815	U	2.86	2.675		ug/L		94	17 - 168
Dibenz(a,h)anthracene	<0.0509	U	2.86	2.129		ug/L		75	32 - 227
Dibenzofuran	<0.107	U	2.86	1.951		ug/L		68	48 - 130
Diethyl phthalate	<0.155	U	2.86	2.540		ug/L		89	25 - 120
Dimethyl phthalate	<0.108	U	2.86	2.385		ug/L		83	25 - 120
Di-n-butyl phthalate	<0.765	U	2.86	2.887		ug/L		101	1 - 120
Di-n-octyl phthalate	<0.269	U F1	2.86	4.550	F1	ug/L		159	4 - 146
Fluoranthene	<0.0883	U	2.86	2.584		ug/L		90	26 - 137
Fluorene	0.140	J	2.86	2.102		ug/L		69	59 - 121
Hexachlorobenzene	<0.0975	U	2.86	1.986		ug/L		70	8 - 152
Hexachlorobutadiene	<0.103	U F1 F2	2.86	0.6601	F1	ug/L		23	24 - 120
Hexachlorocyclopentadiene	<0.0512	U F1 F2	2.86	0.6475	F1	ug/L		23	30 - 130
Hexachloroethane	<0.102	U F1	2.86	0.9362	F1	ug/L		33	40 - 120
Indeno[1,2,3-cd]pyrene	<0.100	U	2.86	2.219		ug/L		78	29 - 171
Isophorone	<0.107	U	2.86	3.076		ug/L		108	21 - 196
Naphthalene	<0.0944	U	2.86	1.711		ug/L		60	21 - 133
Nitrobenzene	<0.0736	U	2.86	3.065		ug/L		107	35 - 180
N-Nitrosodi-n-propylamine	<0.119	U	2.86	2.835		ug/L		99	14 - 230
N-Nitrosodiphenylamine	<0.145	U	2.86	2.538		ug/L		89	60 - 130
Pentachlorophenol	<1.04	U	2.86	3.978		ug/L		139	14 - 176
Phenanthrene	<0.134	U	2.86	2.240		ug/L		78	54 - 120
Phenol	<0.448	U F1	2.86	9.939	F1	ug/L		348	5 - 120
Pyrene	<0.0849	U	2.86	2.303		ug/L		81	52 - 120
Pyridine	<1.44	U F1 *1	2.86	<1.44	U F1	ug/L		0	5 - 120
N-Nitro-o-toluidine	<0.520	U *-	2.86	2.516		ug/L		88	47 - 130
2,3,4,6-Tetrachlorophenol	<0.211	U F1	2.86	3.418		ug/L		120	33 - 132
Acetophenone	<0.624	U	2.86	2.485		ug/L		87	58 - 130
N-Nitrosopiperidine	<0.467	U	2.86	2.702		ug/L		95	54 - 130
Pentachlorobenzene	<0.266	U F1	2.86	1.227	F1	ug/L		43	47 - 130
Diphenyl ether	0.956	F1	2.86	117.0	E F1	ug/L		4060	61 - 130
1,1'-Biphenyl	0.120	J F1	2.86	1.542	F1	ug/L		50	52 - 130
4-Aminobiphenyl	<0.394	U F1 *- F2	2.86	0.4758	J F1	ug/L		17	35 - 130
1,2,4,5-Tetrachlorobenzene	<0.0957	U F1	2.86	0.9123	F1	ug/L		32	52 - 130
1,3,5-Trinitrobenzene	<0.119	U	2.86	2.353	I	ug/L		82	42 - 130
1,3-Dinitrobenzene	<0.0773	U F1	2.86	3.850	F1	ug/L		135	54 - 130
1,4-Naphthoquinone	<0.314	U	2.86	2.942		ug/L		103	34 - 130
1-Naphthylamine	<0.149	U F1 *- F2	2.86	0.8984	F1	ug/L		31	40 - 130
2,6-Dichlorophenol	<0.118	U	2.86	2.849		ug/L		100	40 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
2-Acetylaminofluorene	<1.26	U F1 **	2.86	5.366	F1	ug/L		188	50 - 150
2-Chlorophenol	<0.0756	U	2.86	3.064		ug/L		107	23 - 134
2-Naphthylamine	<0.288	U F1 *- F2	2.86	0.4792	J F1	ug/L		17	30 - 130
2-Picoline	<0.123	U F1 *1	2.86	0.5783	F1	ug/L		20	22 - 130
		F2							
2-Toluidine	<0.306	U	2.86	1.194		ug/L		42	30 - 130
3,3'-Dichlorobenzidine	<0.183	U F1 F2	2.86	0.3030	J F1	ug/L		11	25 - 200
3,3'-Dimethylbenzidine	<0.142	U F1 *- *1	2.86	<0.142	U F1	ug/L		0	30 - 130
3-Methylcholanthrene	<0.104	U *-	2.86	2.521		ug/L		88	53 - 130
4-Nitroquinoline-1-oxide	<0.730	U F2	2.86	2.475		ug/L		87	39 - 130
7,12-Dimethylbenz(a)anthracene	<0.241	U	2.86	2.341		ug/L		82	63 - 130
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	2.86	<3.67	U	ug/L		NC	20 - 130
Aramite Peak 1	<0.0785	U F1 F2	1.43	1.757		ug/L		123	69 - 130
Aramite Peak 2	<0.0954	U F1	1.43	1.802		ug/L		126	65 - 130
Diallate Peak 1	<0.0835	U *-	2.11	1.642		ug/L		78	69 - 130
Diallate Peak 2	<0.0385	U	0.743	0.6219		ug/L		84	67 - 130
Ethyl methanesulfonate	<0.227	U	2.86	2.227		ug/L		78	54 - 130
Hexachloropropene	<0.300	U F1 F2	2.86	0.7359	F1	ug/L		26	37 - 130
Isosafrole Peak 1	<0.0463	U	0.457	0.3767	J	ug/L		82	54 - 130
Isosafrole Peak 2	<0.241	U *-	2.40	2.026		ug/L		84	62 - 130
Methyl methanesulfonate	<0.120	U	2.86	1.174		ug/L		41	30 - 130
N-Nitrosodiethylamine	<0.538	U	2.86	2.534		ug/L		89	54 - 130
N-Nitrosodimethylamine	<0.100	U *-	2.86	0.9537		ug/L		33	30 - 130
N-Nitrosodi-n-butylamine	<0.516	U	2.86	2.796		ug/L		98	58 - 130
N-Nitrosomethylethylamine	<0.294	U	2.86	1.891		ug/L		66	45 - 130
N-Nitrosomorpholine	<0.220	U	2.86	1.602		ug/L		56	37 - 130
N-Nitrosopyrrolidine	<0.268	U *-	2.86	1.805		ug/L		63	47 - 130
p-Dimethylamino azobenzene	<0.0238	U *- F1	2.86	3.223		ug/L		113	61 - 130
Pentachloronitrobenzene	<0.100	U F1	2.86	3.232		ug/L		113	56 - 130
Phenacetin	<0.100	U F1	2.86	3.480		ug/L		122	70 - 130
p-Phenylene diamine	<0.500	U F1 *-	2.86	<0.500	U F1	ug/L		0	3 - 120
Pronamide	<0.100	U	2.86	2.850		ug/L		100	70 - 130
Safrole, Total	<0.0571	U	2.86	2.247		ug/L		79	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	178	S1+	35 - 130
2-Fluorobiphenyl	93		43 - 130
2-Fluorophenol (Surr)	101		19 - 120
Nitrobenzene-d5 (Surr)	152	S1+	37 - 133
Phenol-d5 (Surr)	78		8 - 124
p-Terphenyl-d14	102		47 - 130

**Lab Sample ID: 860-74285-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 161429**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 161269**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD
	Result	Qualifier		Added	Result					
1,2,4-Trichlorobenzene	<0.0766	U F1	2.86	1.371		ug/L		48	44 - 142	16 30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74285-13 MSD**

**Matrix: Water**

**Analysis Batch: 161429**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 161269**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dichlorobenzene	0.197	J F1	2.86	1.547	F1	ug/L		47	51 - 130	7	30
1,3-Dichlorobenzene	<0.102	U F1	2.86	1.302	F1	ug/L		46	47 - 130	9	30
1,4-Dichlorobenzene	0.364	J F1	2.86	1.558	F1	ug/L		42	46 - 130	5	30
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	2.564	J	ug/L		90	36 - 166	1	30
2,4,5-Trichlorophenol	<0.143	U F1	2.86	3.826	F1	ug/L		134	35 - 130	17	30
2,4,6-Trichlorophenol	<0.231	U	2.86	3.847		ug/L		135	37 - 144	20	30
2,4-Dichlorophenol	<0.140	U	2.86	3.462		ug/L		121	39 - 135	16	30
2,4-Dimethylphenol	<0.192	U	2.86	3.364		ug/L		118	32 - 120	12	30
1,4-Dioxane	11.4		2.86	14.88		ug/L		122	28 - 130	10	30
2,4-Dinitrophenol	<0.104	U	2.86	2.131	J	ug/L		75	26 - 191	12	30
2,4-Dinitrotoluene	<0.205	U F1	2.86	4.488	I F1	ug/L		157	39 - 139	26	30
2,6-Dinitrotoluene	<0.116	U F1	2.86	4.849	F1	ug/L		170	50 - 158	28	30
2-Chloronaphthalene	<0.378	U F1	2.86	1.823		ug/L		64	60 - 120	22	30
2-Methylnaphthalene	<0.0603	U	2.86	1.824		ug/L		64	25 - 175	20	30
2-Methylphenol	<0.105	U	2.86	2.893		ug/L		101	14 - 176	10	30
2-Nitroaniline	<0.149	U F1	2.86	4.858	F1	ug/L		170	59 - 130	24	30
2-Nitrophenol	<0.136	U	2.86	5.154		ug/L		180	29 - 182	25	30
3 & 4 Methylphenol	<0.139	U	2.86	3.379		ug/L		118	22 - 130	10	30
3-Nitroaniline	<0.0853	U F2	2.86	2.253	F2	ug/L		79	30 - 130	43	30
4,6-Dinitro-2-methylphenol	<0.201	U *1	2.86	3.522		ug/L		123	25 - 181	17	30
4-Bromophenyl phenyl ether	<0.100	U	2.86	2.413		ug/L		84	53 - 127	18	30
4-Chloro-3-methylphenol	<0.104	U	2.86	3.782		ug/L		132	22 - 147	17	30
4-Chloroaniline	<0.0385	U F2	2.86	1.570	F2	ug/L		55	30 - 130	42	30
4-Chlorophenyl phenyl ether	<0.130	U	2.86	2.029		ug/L		71	25 - 158	26	30
4-Nitroaniline	<0.109	U *-	2.86	3.084	I	ug/L		108	53 - 130	30	30
Acenaphthene	0.914		2.86	3.026		ug/L		74	47 - 145	16	30
Acenaphthylene	<0.0996	U	2.86	2.738		ug/L		96	33 - 145	18	30
Aniline	<0.0580	U F2	2.86	1.485	F2	ug/L		52	20 - 130	34	30
Anthracene	<0.0938	U	2.86	2.789		ug/L		98	27 - 133	25	30
Benzo[a]anthracene	<0.0286	U	2.86	3.193		ug/L		112	33 - 143	22	30
Benzo[a]pyrene	<0.0100	U	2.86	2.837		ug/L		99	17 - 163	18	30
Benzo[b]fluoranthene	<0.0664	U	2.86	2.634		ug/L		92	24 - 159	19	30
Benzo[g,h,i]perylene	<0.0345	U	2.86	2.397		ug/L		84	25 - 219	18	30
Benzo[k]fluoranthene	<0.0473	U	2.86	2.535		ug/L		89	11 - 162	17	30
Benzyl alcohol	1.26	B	2.86	4.405		ug/L		110	57 - 130	23	30
Bis(2-chloroethoxy)methane	<0.0974	U	2.86	2.932		ug/L		103	33 - 184	15	30
Bis(2-chloroethyl)ether	0.645	I	2.86	3.285		ug/L		92	12 - 158	3	30
Bis(2-ethylhexyl) phthalate	<0.900	U	2.86	4.466		ug/L		156	8 - 158	21	30
Butyl benzyl phthalate	<0.500	U F1	2.86	4.377	F1	ug/L		153	70 - 152	20	30
Chrysene	<0.0815	U	2.86	2.873		ug/L		101	17 - 168	7	30
Dibenz(a,h)anthracene	<0.0509	U	2.86	2.483		ug/L		87	32 - 227	15	30
Dibenzofuran	<0.107	U	2.86	2.514		ug/L		88	48 - 130	25	30
Diethyl phthalate	<0.155	U	2.86	3.082		ug/L		108	25 - 120	19	30
Dimethyl phthalate	<0.108	U	2.86	3.014		ug/L		106	25 - 120	23	30
Di-n-butyl phthalate	<0.765	U	2.86	3.425		ug/L		120	1 - 120	17	30
Di-n-octyl phthalate	<0.269	U F1	2.86	5.504	F1	ug/L		193	4 - 146	19	30
Fluoranthene	<0.0883	U	2.86	3.009		ug/L		105	26 - 137	15	30
Fluorene	0.140	J	2.86	2.613		ug/L		87	59 - 121	22	30
Hexachlorobenzene	<0.0975	U	2.86	2.485		ug/L		87	8 - 152	22	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74285-13 MSD**

**Matrix: Water**

**Analysis Batch: 161429**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 161269**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Hexachlorobutadiene	<0.103	U F1 F2	2.86	1.032	F2	ug/L		36	24 - 120	44	30
Hexachlorocyclopentadiene	<0.0512	U F1 F2	2.86	0.9889	F2	ug/L		35	30 - 130	42	30
Hexachloroethane	<0.102	U F1	2.86	1.039	F1	ug/L		36	40 - 120	10	30
Indeno[1,2,3-cd]pyrene	<0.100	U	2.86	2.634		ug/L		92	29 - 171	17	30
Isophorone	<0.107	U	2.86	3.774		ug/L		132	21 - 196	20	30
Naphthalene	<0.0944	U	2.86	2.041		ug/L		71	21 - 133	18	30
Nitrobenzene	<0.0736	U	2.86	3.663		ug/L		128	35 - 180	18	30
N-Nitrosodi-n-propylamine	<0.119	U	2.86	3.288		ug/L		115	14 - 230	15	30
N-Nitrosodiphenylamine	<0.145	U	2.86	3.152		ug/L		110	60 - 130	22	30
Pentachlorophenol	<1.04	U	2.86	4.751		ug/L		166	14 - 176	18	30
Phenanthrene	<0.134	U	2.86	2.703		ug/L		95	54 - 120	19	30
Phenol	<0.448	U F1	2.86	11.06	F1	ug/L		387	5 - 120	11	30
Pyrene	<0.0849	U	2.86	2.741		ug/L		96	52 - 120	17	30
Pyridine	<1.44	U F1 *1	2.86	<1.44	U F1	ug/L		0	5 - 120	NC	30
N-Nitro-o-toluidine	<0.520	U *-	2.86	3.305		ug/L		116	47 - 130	27	30
2,3,4,6-Tetrachlorophenol	<0.211	U F1	2.86	4.270	F1	ug/L		149	33 - 132	22	30
Acetophenone	<0.624	U	2.86	2.806		ug/L		98	58 - 130	12	30
N-Nitrosopiperidine	<0.467	U	2.86	3.322		ug/L		116	54 - 130	21	30
Pentachlorobenzene	<0.266	U F1	2.86	1.599		ug/L		56	47 - 130	26	30
Diphenyl ether	0.956	F1	2.86	122.5	E F1	ug/L		4254	61 - 130	5	30
1,1'-Biphenyl	0.120	J F1	2.86	2.020		ug/L		66	52 - 130	27	30
4-Aminobiphenyl	<0.394	U F1 *- F2	2.86	1.051	F2	ug/L		37	35 - 130	75	30
1,2,4,5-Tetrachlorobenzene	<0.0957	U F1	2.86	1.235	F1	ug/L		43	52 - 130	30	30
1,3,5-Trinitrobenzene	<0.119	U	2.86	3.077	I	ug/L		108	42 - 130	27	30
1,3-Dinitrobenzene	<0.0773	U F1	2.86	4.847	F1	ug/L		170	54 - 130	23	30
1,4-Naphthoquinone	<0.314	U	2.86	3.508		ug/L		123	34 - 130	18	30
1-Naphthylamine	<0.149	U F1 *- F2	2.86	1.564	F2	ug/L		55	40 - 130	54	30
2,6-Dichlorophenol	<0.118	U	2.86	3.412		ug/L		119	40 - 130	18	30
2-Acetylaminofluorene	<1.26	U F1 **	2.86	6.206	F1	ug/L		217	50 - 150	15	30
2-Chlorophenol	<0.0756	U	2.86	3.495		ug/L		122	23 - 134	13	30
2-Naphthylamine	<0.288	U F1 *- F2	2.86	1.027	F2	ug/L		36	30 - 130	73	30
2-Picoline	<0.123	U F1 *1	2.86	0.8127	F2	ug/L		28	22 - 130	34	30
2-Toluidine	<0.306	U	2.86	1.547		ug/L		54	30 - 130	26	30
3,3'-Dichlorobenzidine	<0.183	U F1 F2	2.86	0.5348	J F1 F2	ug/L		19	25 - 200	55	30
3,3'-Dimethylbenzidine	<0.142	U F1 *- *1	2.86	<0.142	U F1	ug/L		0	30 - 130	NC	30
3-Methylcholanthrene	<0.104	U *-	2.86	3.031		ug/L		106	53 - 130	18	30
4-Nitroquinoline-1-oxide	<0.730	U F2	2.86	3.571	F2	ug/L		125	39 - 130	36	30
7,12-Dimethylbenz(a)anthracene	<0.241	U	2.86	2.823		ug/L		99	63 - 130	19	30
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	2.86	<3.67	U	ug/L		NC	20 - 130	NC	30
Aramite Peak 1	<0.0785	U F1 F2	1.43	2.440	F1 F2	ug/L		171	69 - 130	33	30
Aramite Peak 2	<0.0954	U F1	1.43	2.369	F1	ug/L		166	65 - 130	27	30
Diallate Peak 1	<0.0835	U *-	2.11	2.125		ug/L		101	69 - 130	26	30
Diallate Peak 2	<0.0385	U	0.743	0.8097		ug/L		109	67 - 130	26	30
Ethyl methanesulfonate	<0.227	U	2.86	2.364		ug/L		83	54 - 130	6	30
Hexachloropropene	<0.300	U F1 F2	2.86	1.044	F2	ug/L		37	37 - 130	35	30
Isosafrole Peak 1	<0.0463	U	0.457	0.4418	J	ug/L		97	54 - 130	16	30
Isosafrole Peak 2	<0.241	U *-	2.40	2.442		ug/L		102	62 - 130	19	30

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 860-74285-13 MSD**

**Matrix: Water**

**Analysis Batch: 161429**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 161269**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Methyl methanesulfonate	<0.120	U	2.86	1.305		ug/L		46	30 - 130	11	30	
N-Nitrosodiethylamine	<0.538	U	2.86	2.862		ug/L		100	54 - 130	12	30	
N-Nitrosodimethylamine	<0.100	U *-	2.86	1.112		ug/L		39	30 - 130	15	30	
N-Nitrosodi-n-butylamine	<0.516	U	2.86	3.588		ug/L		126	58 - 130	25	30	
N-Nitrosomethylethylamine	<0.294	U	2.86	2.238		ug/L		78	45 - 130	17	30	
N-Nitrosomorpholine	<0.220	U	2.86	1.739		ug/L		61	37 - 130	8	30	
N-Nitrosopyrrolidine	<0.268	U *-	2.86	2.010		ug/L		70	47 - 130	11	30	
p-Dimethylamino azobenzene	<0.0238	U *- F1	2.86	4.040	F1	ug/L		141	61 - 130	23	30	
Pentachloronitrobenzene	<0.100	U F1	2.86	3.746	F1	ug/L		131	56 - 130	15	30	
Phenacetin	<0.100	U F1	2.86	3.914	F1	ug/L		137	70 - 130	12	30	
p-Phenylene diamine	<0.500	U F1 *-	2.86	<0.500	U F1	ug/L		0	3 - 120	NC	30	
Pronamide	<0.100	U	2.86	3.402		ug/L		119	70 - 130	18	30	
Safrole, Total	<0.0571	U	2.86	2.744		ug/L		96	70 - 130	20	30	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	194	S1+	35 - 130
2-Fluorobiphenyl	106		43 - 130
2-Fluorophenol (Surr)	105		19 - 120
Nitrobenzene-d5 (Surr)	175	S1+	37 - 133
Phenol-d5 (Surr)	81		8 - 124
p-Terphenyl-d14	118		47 - 130

**Lab Sample ID: MB 860-162111/1-A**

**Matrix: Water**

**Analysis Batch: 162155**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 162111**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/24/24 05:36	05/24/24 10:29		1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/24/24 05:36	05/24/24 10:29		1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 10:29		1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/24/24 05:36	05/24/24 10:29		1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/24/24 05:36	05/24/24 10:29		1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/24/24 05:36	05/24/24 10:29		1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/24/24 05:36	05/24/24 10:29		1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/24/24 05:36	05/24/24 10:29		1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/24/24 05:36	05/24/24 10:29		1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 10:29		1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/24/24 05:36	05/24/24 10:29		1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/24/24 05:36	05/24/24 10:29		1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/24/24 05:36	05/24/24 10:29		1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/24/24 05:36	05/24/24 10:29		1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-162111/1-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 10:29	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 10:29	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 10:29	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/24/24 05:36	05/24/24 10:29	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/24/24 05:36	05/24/24 10:29	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 10:29	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/24/24 05:36	05/24/24 10:29	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/24/24 05:36	05/24/24 10:29	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/24/24 05:36	05/24/24 10:29	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/24/24 05:36	05/24/24 10:29	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/24/24 05:36	05/24/24 10:29	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/24/24 05:36	05/24/24 10:29	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/24/24 05:36	05/24/24 10:29	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/24/24 05:36	05/24/24 10:29	1
Benzyl alcohol	1.119	J	1.14	0.600	ug/L		05/24/24 05:36	05/24/24 10:29	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/24/24 05:36	05/24/24 10:29	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/24/24 05:36	05/24/24 10:29	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/24/24 05:36	05/24/24 10:29	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 10:29	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/24/24 05:36	05/24/24 10:29	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/24/24 05:36	05/24/24 10:29	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 10:29	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/24/24 05:36	05/24/24 10:29	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/24/24 05:36	05/24/24 10:29	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/24/24 05:36	05/24/24 10:29	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/24/24 05:36	05/24/24 10:29	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/24/24 05:36	05/24/24 10:29	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/24/24 05:36	05/24/24 10:29	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/24/24 05:36	05/24/24 10:29	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/24/24 05:36	05/24/24 10:29	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/24/24 05:36	05/24/24 10:29	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/24/24 05:36	05/24/24 10:29	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 10:29	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/24/24 05:36	05/24/24 10:29	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/24/24 05:36	05/24/24 10:29	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/24/24 05:36	05/24/24 10:29	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/24/24 05:36	05/24/24 10:29	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/24/24 05:36	05/24/24 10:29	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/24/24 05:36	05/24/24 10:29	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/24/24 05:36	05/24/24 10:29	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/24/24 05:36	05/24/24 10:29	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/24/24 05:36	05/24/24 10:29	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/24/24 05:36	05/24/24 10:29	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/24/24 05:36	05/24/24 10:29	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/24/24 05:36	05/24/24 10:29	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-162111/1-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/24/24 05:36	05/24/24 10:29	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/24/24 05:36	05/24/24 10:29	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/24/24 05:36	05/24/24 10:29	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/24/24 05:36	05/24/24 10:29	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/24/24 05:36	05/24/24 10:29	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/24/24 05:36	05/24/24 10:29	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/24/24 05:36	05/24/24 10:29	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/24/24 05:36	05/24/24 10:29	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/24/24 05:36	05/24/24 10:29	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/24/24 05:36	05/24/24 10:29	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/24/24 05:36	05/24/24 10:29	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/24/24 05:36	05/24/24 10:29	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/24/24 05:36	05/24/24 10:29	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/24/24 05:36	05/24/24 10:29	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/24/24 05:36	05/24/24 10:29	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/24/24 05:36	05/24/24 10:29	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/24/24 05:36	05/24/24 10:29	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 10:29	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/24/24 05:36	05/24/24 10:29	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/24/24 05:36	05/24/24 10:29	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 10:29	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/24/24 05:36	05/24/24 10:29	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 10:29	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/24/24 05:36	05/24/24 10:29	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/24/24 05:36	05/24/24 10:29	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/24/24 05:36	05/24/24 10:29	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/24/24 05:36	05/24/24 10:29	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/24/24 05:36	05/24/24 10:29	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/24/24 05:36	05/24/24 10:29	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/24/24 05:36	05/24/24 10:29	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/24/24 05:36	05/24/24 10:29	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/24/24 05:36	05/24/24 10:29	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 10:29	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/24/24 05:36	05/24/24 10:29	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/24/24 05:36	05/24/24 10:29	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/24/24 05:36	05/24/24 10:29	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/24/24 05:36	05/24/24 10:29	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/24/24 05:36	05/24/24 10:29	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/24/24 05:36	05/24/24 10:29	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/24/24 05:36	05/24/24 10:29	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/24/24 05:36	05/24/24 10:29	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 10:29	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 10:29	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/24/24 05:36	05/24/24 10:29	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-162111/1-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/24/24 05:36	05/24/24 10:29	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/24/24 05:36	05/24/24 10:29	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/24/24 05:36	05/24/24 10:29	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/24/24 05:36	05/24/24 10:29	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/24/24 05:36	05/24/24 10:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130	05/24/24 05:36	05/24/24 10:29	1
2-Fluorobiphenyl	120		43 - 130	05/24/24 05:36	05/24/24 10:29	1
2-Fluorophenol (Surr)	87		19 - 120	05/24/24 05:36	05/24/24 10:29	1
Nitrobenzene-d5 (Surr)	174	S1+	37 - 133	05/24/24 05:36	05/24/24 10:29	1
Phenol-d5 (Surr)	71		8 - 124	05/24/24 05:36	05/24/24 10:29	1
p-Terphenyl-d14	127		47 - 130	05/24/24 05:36	05/24/24 10:29	1

**Lab Sample ID: LCS 860-162111/2-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2,4-Trichlorobenzene	2.86	1.277		ug/L		45	32 - 130
1,2-Dichlorobenzene	2.86	1.356		ug/L		47	32 - 130
1,3-Dichlorobenzene	2.86	1.182		ug/L		41	26 - 130
1,4-Dichlorobenzene	2.86	1.233		ug/L		43	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.350	J I	ug/L		82	10 - 173
2,4,5-Trichlorophenol	2.86	3.069		ug/L		107	35 - 130
2,4,6-Trichlorophenol	2.86	2.245		ug/L		79	52 - 129
2,4-Dichlorophenol	2.86	2.537		ug/L		89	53 - 122
2,4-Dimethylphenol	2.86	2.570		ug/L		90	42 - 120
1,4-Dioxane	2.86	1.056		ug/L		37	27 - 130
2,4-Dinitrophenol	2.86	0.6820	J I	ug/L		24	12 - 173
2,4-Dinitrotoluene	2.86	3.578		ug/L		125	48 - 127
2,6-Dinitrotoluene	2.86	3.211		ug/L		112	68 - 137
2-Chloronaphthalene	2.86	1.585		ug/L		55	10 - 130
2-Methylnaphthalene	2.86	1.671		ug/L		58	25 - 175
2-Methylphenol	2.86	2.264		ug/L		79	14 - 176
2-Nitroaniline	2.86	3.602		ug/L		126	59 - 130
2-Nitrophenol	2.86	3.091		ug/L		108	45 - 167
3 & 4 Methylphenol	2.86	2.361		ug/L		83	22 - 130
3-Nitroaniline	2.86	1.738		ug/L		61	30 - 130
4,6-Dinitro-2-methylphenol	2.86	0.9086	J	ug/L		32	10 - 130
4-Bromophenyl phenyl ether	2.86	2.047		ug/L		72	65 - 120
4-Chloro-3-methylphenol	2.86	3.082		ug/L		108	41 - 128
4-Chloroaniline	2.86	1.345		ug/L		47	30 - 130
4-Chlorophenyl phenyl ether	2.86	1.912		ug/L		67	38 - 145
4-Nitroaniline	2.86	2.274		ug/L		80	42 - 125
Acenaphthene	2.86	2.110		ug/L		74	60 - 132
Acenaphthylene	2.86	2.266		ug/L		79	54 - 126
Aniline	2.86	0.9914		ug/L		35	15 - 130



# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-162111/2-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	2.86	1.990		ug/L		70	43 - 135
Benzo[a]anthracene	2.86	2.572		ug/L		90	42 - 133
Benzo[a]pyrene	2.86	2.526		ug/L		88	32 - 148
Benzo[b]fluoranthene	2.86	2.556		ug/L		89	42 - 140
Benzo[g,h,i]perylene	2.86	2.123		ug/L		74	25 - 195
Benzo[k]fluoranthene	2.86	2.403		ug/L		84	25 - 146
Benzyl alcohol	2.86	3.071		ug/L		107	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.440		ug/L		85	49 - 165
Bis(2-chloroethyl)ether	2.86	2.364		ug/L		83	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	3.281		ug/L		115	29 - 137
Butyl benzyl phthalate	2.86	3.315		ug/L		116	28 - 130
Chrysene	2.86	2.646		ug/L		93	47 - 130
Dibenz(a,h)anthracene	2.86	2.289		ug/L		80	32 - 200
Dibenzofuran	2.86	2.277		ug/L		80	48 - 130
Diethyl phthalate	2.86	2.701		ug/L		95	53 - 120
Dimethyl phthalate	2.86	2.675		ug/L		94	67 - 120
Di-n-butyl phthalate	2.86	2.451		ug/L		86	8 - 120
Di-n-octyl phthalate	2.86	3.291		ug/L		115	19 - 200
Fluoranthene	2.86	2.483		ug/L		87	43 - 130
Fluorene	2.86	2.182		ug/L		76	70 - 130
Hexachlorobenzene	2.86	2.282		ug/L		80	8 - 142
Hexachlorobutadiene	2.86	0.6431		ug/L		23	10 - 130
Hexachlorocyclopentadiene	2.86	0.5823		ug/L		20	10 - 130
Hexachloroethane	2.86	0.9969		ug/L		35	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	2.274		ug/L		80	29 - 151
Isophorone	2.86	2.956		ug/L		103	47 - 180
Naphthalene	2.86	1.996		ug/L		70	36 - 120
Nitrobenzene	2.86	3.029		ug/L		106	54 - 130
N-Nitrosodi-n-propylamine	2.86	2.374		ug/L		83	14 - 198
N-Nitrosodiphenylamine	2.86	2.640		ug/L		92	40 - 127
Pentachlorophenol	2.86	2.010		ug/L		70	38 - 152
Phenanthrene	2.86	2.190		ug/L		77	65 - 120
Phenol	2.86	1.485	J I	ug/L		52	17 - 120
Pyrene	2.86	2.021		ug/L		71	70 - 130
Pyridine	2.86	<1.44	U	ug/L		25	1 - 126
N-Nitro-o-toluidine	2.86	2.652		ug/L		93	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.437		ug/L		85	33 - 132
Acetophenone	2.86	2.406		ug/L		84	58 - 130
N-Nitrosopiperidine	2.86	2.333		ug/L		82	54 - 130
Pentachlorobenzene	2.86	1.614		ug/L		56	47 - 130
Diphenyl ether	2.86	2.049		ug/L		72	61 - 130
1,1'-Biphenyl	2.86	1.906		ug/L		67	52 - 130
4-Aminobiphenyl	2.86	1.422		ug/L		50	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.152	*-	ug/L		40	52 - 130
1,3,5-Trinitrobenzene	2.86	2.496	I	ug/L		87	42 - 130
1,3-Dinitrobenzene	2.86	3.431		ug/L		120	54 - 130
1,4-Naphthoquinone	2.86	2.339		ug/L		82	34 - 130
1-Naphthylamine	2.86	1.244		ug/L		44	40 - 130
2,6-Dichlorophenol	2.86	1.900		ug/L		66	40 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-162111/2-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Acetylaminofluorene	2.86	5.289	*+	ug/L		185	50 - 150
2-Chlorophenol	2.86	2.555		ug/L		89	36 - 120
2-Naphthylamine	2.86	1.211		ug/L		42	30 - 130
2-Picoline	2.86	1.065		ug/L		37	22 - 130
2-Toluidine	2.86	1.010		ug/L		35	30 - 130
3,3'-Dichlorobenzidine	2.86	1.643		ug/L		57	20 - 150
3,3'-Dimethylbenzidine	2.86	0.8462		ug/L		30	30 - 130
3-Methylcholanthrene	2.86	2.458		ug/L		86	53 - 130
4-Nitroquinoline-1-oxide	2.86	2.471		ug/L		87	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	2.576		ug/L		90	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U	ug/L		41	20 - 130
Aramite Peak 1	1.43	2.016	*+	ug/L		141	69 - 130
Aramite Peak 2	1.43	1.725		ug/L		121	65 - 130
Diallate Peak 1	2.11	1.633		ug/L		77	69 - 130
Diallate Peak 2	0.743	0.6299		ug/L		85	67 - 130
Ethyl methanesulfonate	2.86	1.803		ug/L		63	54 - 130
Hexachloropropene	2.86	0.7743	*-	ug/L		27	37 - 130
Isosafrole Peak 1	0.457	0.3681	J	ug/L		81	54 - 130
Isosafrole Peak 2	2.40	1.987		ug/L		83	62 - 130
Methyl methanesulfonate	2.86	1.015		ug/L		36	30 - 130
N-Nitrosodiethylamine	2.86	2.168		ug/L		76	54 - 130
N-Nitrosodimethylamine	2.86	0.8365		ug/L		29	28 - 126
N-Nitrosodi-n-butylamine	2.86	2.584		ug/L		90	58 - 130
N-Nitrosomethylethylamine	2.86	1.707		ug/L		60	45 - 130
N-Nitrosomorpholine	2.86	1.166		ug/L		41	37 - 130
N-Nitrosopyrrolidine	2.86	1.473		ug/L		52	47 - 130
p-Dimethylamino azobenzene	2.86	2.591		ug/L		91	61 - 130
Pentachloronitrobenzene	2.86	2.601		ug/L		91	56 - 130
Phenacetin	2.86	2.901		ug/L		102	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	2.628		ug/L		92	70 - 130
Safrole, Total	2.86	2.170		ug/L		76	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	145	S1+	35 - 130
2-Fluorobiphenyl	106		43 - 130
2-Fluorophenol (Surr)	82		19 - 120
Nitrobenzene-d5 (Surr)	166	S1+	37 - 133
Phenol-d5 (Surr)	64		8 - 124
p-Terphenyl-d14	90		47 - 130

**Lab Sample ID: LCS 860-162111/4-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	4.767		ug/L		83	45 - 138
Dinoseb	5.71	3.067		ug/L		54	49 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-162111/4-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Disulfoton	5.71	4.645		ug/L		81	38 - 134
Ethyl Parathion	5.71	5.985		ug/L		105	25 - 173
Famphur	2.86	2.830		ug/L		99	43 - 142
Methapyrilene	5.71	6.112		ug/L		107	70 - 183
Methyl parathion	5.71	6.139		ug/L		107	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.165		ug/L		76	43 - 130
Phorate	5.71	4.991		ug/L		87	37 - 140
Sulfotepp	5.71	4.775		ug/L		84	28 - 158
Thionazin	2.86	2.418		ug/L		85	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		35 - 130
2-Fluorobiphenyl	106		43 - 130
2-Fluorophenol (Surr)	56		19 - 120
Nitrobenzene-d5 (Surr)	168	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	104		47 - 130

**Lab Sample ID: LCSD 860-162111/3-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	1.244		ug/L		44	32 - 130	3	30
1,2-Dichlorobenzene	2.86	1.387		ug/L		49	32 - 130	2	30
1,3-Dichlorobenzene	2.86	1.289		ug/L		45	26 - 130	9	30
1,4-Dichlorobenzene	2.86	1.239		ug/L		43	28 - 130	1	30
2,2'-oxybis[1-chloropropane]	2.86	2.675	J I	ug/L		94	10 - 173	13	30
2,4,5-Trichlorophenol	2.86	2.664		ug/L		93	35 - 130	14	30
2,4,6-Trichlorophenol	2.86	2.038		ug/L		71	52 - 129	10	30
2,4-Dichlorophenol	2.86	2.539		ug/L		89	53 - 122	0	30
2,4-Dimethylphenol	2.86	2.544		ug/L		89	42 - 120	1	30
1,4-Dioxane	2.86	1.104		ug/L		39	27 - 130	4	30
2,4-Dinitrophenol	2.86	0.7016	J	ug/L		25	12 - 173	3	30
2,4-Dinitrotoluene	2.86	3.198		ug/L		112	48 - 127	11	30
2,6-Dinitrotoluene	2.86	3.128		ug/L		109	68 - 137	3	30
2-Chloronaphthalene	2.86	1.563		ug/L		55	10 - 130	1	30
2-Methylnaphthalene	2.86	1.739		ug/L		61	25 - 175	4	30
2-Methylphenol	2.86	2.340		ug/L		82	14 - 176	3	30
2-Nitroaniline	2.86	3.437		ug/L		120	59 - 130	5	30
2-Nitrophenol	2.86	2.968		ug/L		104	45 - 167	4	30
3 & 4 Methylphenol	2.86	2.451		ug/L		86	22 - 130	4	30
3-Nitroaniline	2.86	1.582		ug/L		55	30 - 130	9	30
4,6-Dinitro-2-methylphenol	2.86	0.8408	J	ug/L		29	10 - 130	8	30
4-Bromophenyl phenyl ether	2.86	2.286		ug/L		80	65 - 120	11	30
4-Chloro-3-methylphenol	2.86	2.847		ug/L		100	41 - 128	8	30
4-Chloroaniline	2.86	1.351		ug/L		47	30 - 130	0	30
4-Chlorophenyl phenyl ether	2.86	1.866		ug/L		65	38 - 145	2	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-162111/3-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
4-Nitroaniline	2.86	2.022		ug/L		71	42 - 125	12	30	
Acenaphthene	2.86	2.042		ug/L		71	60 - 132	3	30	
Acenaphthylene	2.86	2.337		ug/L		82	54 - 126	3	30	
Aniline	2.86	1.076		ug/L		38	15 - 130	8	30	
Anthracene	2.86	2.134		ug/L		75	43 - 135	7	30	
Benzo[a]anthracene	2.86	2.793		ug/L		98	42 - 133	8	30	
Benzo[a]pyrene	2.86	2.569		ug/L		90	32 - 148	2	30	
Benzo[b]fluoranthene	2.86	2.551		ug/L		89	42 - 140	0	30	
Benzo[g,h,i]perylene	2.86	2.127		ug/L		74	25 - 195	0	30	
Benzo[k]fluoranthene	2.86	2.406		ug/L		84	25 - 146	0	30	
Benzyl alcohol	2.86	3.049		ug/L		107	57 - 130	1	30	
Bis(2-chloroethoxy)methane	2.86	2.428		ug/L		85	49 - 165	1	30	
Bis(2-chloroethyl)ether	2.86	2.550		ug/L		89	43 - 126	8	30	
Bis(2-ethylhexyl) phthalate	2.86	3.379		ug/L		118	29 - 137	3	30	
Butyl benzyl phthalate	2.86	3.561		ug/L		125	28 - 130	7	30	
Chrysene	2.86	2.854		ug/L		100	47 - 130	8	30	
Dibenz(a,h)anthracene	2.86	2.270		ug/L		79	32 - 200	1	30	
Dibenzofuran	2.86	2.131		ug/L		75	48 - 130	7	30	
Diethyl phthalate	2.86	2.579		ug/L		90	53 - 120	5	30	
Dimethyl phthalate	2.86	2.444		ug/L		86	67 - 120	9	30	
Di-n-butyl phthalate	2.86	2.800		ug/L		98	8 - 120	13	30	
Di-n-octyl phthalate	2.86	3.486		ug/L		122	19 - 200	6	30	
Fluoranthene	2.86	2.709		ug/L		95	43 - 130	9	30	
Fluorene	2.86	2.125		ug/L		74	70 - 130	3	30	
Hexachlorobenzene	2.86	2.555		ug/L		89	8 - 142	11	30	
Hexachlorobutadiene	2.86	0.6814		ug/L		24	10 - 130	6	30	
Hexachlorocyclopentadiene	2.86	0.5787		ug/L		20	10 - 130	1	30	
Hexachloroethane	2.86	0.9867		ug/L		35	10 - 130	1	30	
Indeno[1,2,3-cd]pyrene	2.86	2.321		ug/L		81	29 - 151	2	30	
Isophorone	2.86	2.955		ug/L		103	47 - 180	0	30	
Naphthalene	2.86	1.985		ug/L		69	36 - 120	1	30	
Nitrobenzene	2.86	3.013		ug/L		105	54 - 130	1	30	
N-Nitrosodi-n-propylamine	2.86	2.693		ug/L		94	14 - 198	13	30	
N-Nitrosodiphenylamine	2.86	2.454		ug/L		86	40 - 127	7	30	
Pentachlorophenol	2.86	2.223		ug/L		78	38 - 152	10	30	
Phenanthrene	2.86	2.473		ug/L		87	65 - 120	12	30	
Phenol	2.86	1.520	J I	ug/L		53	17 - 120	2	30	
Pyrene	2.86	2.269		ug/L		79	70 - 130	12	30	
Pyridine	2.86	<1.44	U	ug/L		30	1 - 126	16	30	
N-Nitro-o-toluidine	2.86	2.544		ug/L		89	47 - 130	4	30	
2,3,4,6-Tetrachlorophenol	2.86	2.098		ug/L		73	33 - 132	15	30	
Acetophenone	2.86	2.376		ug/L		83	58 - 130	1	30	
N-Nitrosopiperidine	2.86	2.377		ug/L		83	54 - 130	2	30	
Pentachlorobenzene	2.86	1.550		ug/L		54	47 - 130	4	30	
Diphenyl ether	2.86	2.054		ug/L		72	61 - 130	0	30	
1,1'-Biphenyl	2.86	1.891		ug/L		66	52 - 130	1	30	
4-Aminobiphenyl	2.86	1.592		ug/L		56	35 - 130	11	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.078	*-	ug/L		38	52 - 130	7	30	
1,3,5-Trinitrobenzene	2.86	2.175	I	ug/L		76	42 - 130	14	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-162111/3-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,3-Dinitrobenzene	2.86	3.365		ug/L		118	54 - 130	2	30	
1,4-Naphthoquinone	2.86	2.378		ug/L		83	34 - 130	2	30	
1-Naphthylamine	2.86	1.090	*-	ug/L		38	40 - 130	13	30	
2,6-Dichlorophenol	2.86	1.882		ug/L		66	40 - 130	1	30	
2-Acetylaminofluorene	2.86	5.408	*+	ug/L		189	50 - 150	2	30	
2-Chlorophenol	2.86	2.665		ug/L		93	36 - 120	4	30	
2-Naphthylamine	2.86	1.095		ug/L		38	30 - 130	10	30	
2-Picoline	2.86	1.040		ug/L		36	22 - 130	2	30	
2-Toluidine	2.86	0.9367		ug/L		33	30 - 130	8	30	
3,3'-Dichlorobenzidine	2.86	1.897		ug/L		66	20 - 150	14	30	
3,3'-Dimethylbenzidine	2.86	0.8582		ug/L		30	30 - 130	1	30	
3-Methylcholanthrene	2.86	2.475		ug/L		87	53 - 130	1	30	
4-Nitroquinoline-1-oxide	2.86	2.556		ug/L		89	39 - 130	3	30	
7,12-Dimethylbenz(a)anthracene	2.86	2.564		ug/L		90	63 - 130	0	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *1	ug/L		59	20 - 130	35	30	
Aramite Peak 1	1.43	1.814		ug/L		127	69 - 130	11	30	
Aramite Peak 2	1.43	1.756		ug/L		123	65 - 130	2	30	
Diallate Peak 1	2.11	1.651		ug/L		78	69 - 130	1	30	
Diallate Peak 2	0.743	0.6157		ug/L		83	67 - 130	2	30	
Ethyl methanesulfonate	2.86	1.914		ug/L		67	54 - 130	6	30	
Hexachloropropene	2.86	0.8009	*-	ug/L		28	37 - 130	3	30	
Isosafrole Peak 1	0.457	0.3558	J	ug/L		78	54 - 130	3	30	
Isosafrole Peak 2	2.40	2.106		ug/L		88	62 - 130	6	30	
Methyl methanesulfonate	2.86	1.086		ug/L		38	30 - 130	7	30	
N-Nitrosodiethylamine	2.86	2.383		ug/L		83	54 - 130	9	30	
N-Nitrosodimethylamine	2.86	0.8442		ug/L		30	28 - 126	1	30	
N-Nitrosodi-n-butylamine	2.86	2.522		ug/L		88	58 - 130	2	30	
N-Nitrosomethylethylamine	2.86	1.927		ug/L		67	45 - 130	12	30	
N-Nitrosomorpholine	2.86	1.335		ug/L		47	37 - 130	14	30	
N-Nitrosopyrrolidine	2.86	1.463		ug/L		51	47 - 130	1	30	
p-Dimethylamino azobenzene	2.86	2.802		ug/L		98	61 - 130	8	30	
Pentachloronitrobenzene	2.86	3.013		ug/L		105	56 - 130	15	30	
Phenacetin	2.86	2.995		ug/L		105	70 - 130	3	30	
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	2.880		ug/L		101	70 - 130	9	30	
Safrole, Total	2.86	2.365		ug/L		83	70 - 130	9	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	123		35 - 130
2-Fluorobiphenyl	95		43 - 130
2-Fluorophenol (Surr)	77		19 - 120
Nitrobenzene-d5 (Surr)	157	S1+	37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	94		47 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-162111/5-A**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate	5.71	5.638		ug/L		99	45 - 138	17	30
Dinoseb	5.71	3.469		ug/L		61	49 - 130	12	30
Disulfoton	5.71	4.847		ug/L		85	38 - 134	4	30
Ethyl Parathion	5.71	6.500		ug/L		114	25 - 173	8	30
Famphur	2.86	3.176		ug/L		111	43 - 142	12	30
Methapyrilene	5.71	6.916		ug/L		121	70 - 183	12	30
Methyl parathion	5.71	6.587		ug/L		115	26 - 159	7	30
o,o',o"-Triethylphosphorothioate	2.86	2.556		ug/L		89	43 - 130	17	30
Phorate	5.71	5.128		ug/L		90	37 - 140	3	30
Sulfotepp	5.71	4.816		ug/L		84	28 - 158	1	30
Thionazin	2.86	2.486		ug/L		87	50 - 150	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	111		35 - 130
2-Fluorobiphenyl	109		43 - 130
2-Fluorophenol (Surr)	53		19 - 120
Nitrobenzene-d5 (Surr)	181	S1+	37 - 133
Phenol-d5 (Surr)	55		8 - 124
p-Terphenyl-d14	94		47 - 130

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - RE

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene - RE	<0.0766	U H F1	2.86	0.7659	H F1	ug/L		27	44 - 142
1,2-Dichlorobenzene - RE	0.174	J H F1	2.86	0.9794	H F1	ug/L		28	51 - 130
1,3-Dichlorobenzene - RE	<0.102	U H F1	2.86	0.7346	H F1	ug/L		26	47 - 130
1,4-Dichlorobenzene - RE	0.327	J H F1	2.86	1.027	H F1	ug/L		25	46 - 130
2,2'-oxybis[1-chloropropane] - RE	<1.43	U H	2.86	2.304	J H	ug/L		81	36 - 166
2,4,5-Trichlorophenol - RE	<0.143	U H	2.86	3.224	H	ug/L		113	35 - 130
2,4,6-Trichlorophenol - RE	<0.231	U H	2.86	2.907	H	ug/L		102	37 - 144
2,4-Dichlorophenol - RE	<0.140	U H	2.86	2.652	H	ug/L		93	39 - 135
2,4-Dimethylphenol - RE	<0.192	U H	2.86	2.505	H	ug/L		88	32 - 120
1,4-Dioxane - RE	10.1	H	2.86	11.43	H	ug/L		46	28 - 130
2,4-Dinitrophenol - RE	<0.104	U H	2.86	2.105	J H	ug/L		74	26 - 191
2,4-Dinitrotoluene - RE	<0.205	U H	2.86	3.640	H	ug/L		127	39 - 139
2,6-Dinitrotoluene - RE	<0.116	U H	2.86	3.825	H	ug/L		134	50 - 158
2-Chloronaphthalene - RE	<0.378	U H F1	2.86	1.336	H F1	ug/L		47	60 - 120
2-Methylnaphthalene - RE	<0.0603	U H	2.86	1.268	H	ug/L		44	25 - 175
2-Methylphenol - RE	<0.105	U H	2.86	2.067	H	ug/L		72	14 - 176
2-Nitroaniline - RE	<0.149	U H F1	2.86	3.994	H F1	ug/L		140	59 - 130
2-Nitrophenol - RE	<0.136	U H	2.86	4.026	H	ug/L		141	29 - 182
3 & 4 Methylphenol - RE	<0.139	U H	2.86	2.102	H	ug/L		74	22 - 130
3-Nitroaniline - RE	<0.0853	U H	2.86	2.247	H	ug/L		79	30 - 130
4,6-Dinitro-2-methylphenol - RE	<0.201	U H	2.86	3.657	H	ug/L		128	25 - 181

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 860-74285-13 MS**

**Matrix: Water**

**Analysis Batch: 162155**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 162111**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
4-Bromophenyl phenyl ether - RE	<0.100	U H	2.86	2.028	H	ug/L		71	53 - 127
4-Chloro-3-methylphenol - RE	<0.104	U H	2.86	2.950	H	ug/L		103	22 - 147
4-Chloroaniline - RE	<0.0385	U H	2.86	1.496	H	ug/L		52	30 - 130
4-Chlorophenyl phenyl ether - RE	<0.130	U H	2.86	1.627	H	ug/L		57	25 - 158
4-Nitroaniline - RE	<0.109	U H	2.86	2.868	H I	ug/L		100	53 - 130
Acenaphthene - RE	0.833	H	2.86	2.486	H	ug/L		58	47 - 145
Acenaphthylene - RE	<0.0996	U H	2.86	2.137	H	ug/L		75	33 - 145
Aniline - RE	<0.0580	U H	2.86	1.126	H	ug/L		39	20 - 130
Anthracene - RE	<0.0938	U H	2.86	2.073	H	ug/L		73	27 - 133
Benzo[a]anthracene - RE	<0.0286	U H	2.86	2.682	H	ug/L		94	33 - 143
Benzo[a]pyrene - RE	<0.0100	U H	2.86	2.271	H	ug/L		79	17 - 163
Benzo[b]fluoranthene - RE	<0.0664	U H	2.86	2.147	H	ug/L		75	24 - 159
Benzo[g,h,i]perylene - RE	<0.0345	U H	2.86	1.878	H	ug/L		66	25 - 219
Benzo[k]fluoranthene - RE	<0.0473	U H	2.86	2.053	H	ug/L		72	11 - 162
Benzyl alcohol - RE	0.894	J H I B	2.86	2.671	H	ug/L		62	57 - 130
Bis(2-chloroethoxy)methane - RE	<0.0974	U H	2.86	2.437	H	ug/L		85	33 - 184
Bis(2-chloroethyl)ether - RE	0.559	J H I	2.86	2.818	H	ug/L		79	12 - 158
Bis(2-ethylhexyl) phthalate - RE	<0.900	U H	2.86	3.794	H	ug/L		133	8 - 158
Butyl benzyl phthalate - RE	<0.500	U H	2.86	3.750	H	ug/L		131	70 - 152
Chrysene - RE	<0.0815	U H	2.86	2.659	H	ug/L		93	17 - 168
Dibenz(a,h)anthracene - RE	<0.0509	U H	2.86	1.933	H	ug/L		68	32 - 227
Dibenzofuran - RE	<0.107	U H	2.86	1.885	H	ug/L		66	48 - 130
Diethyl phthalate - RE	<0.155	U H	2.86	2.618	H	ug/L		92	25 - 120
Dimethyl phthalate - RE	<0.108	U H	2.86	2.511	H	ug/L		88	25 - 120
Di-n-butyl phthalate - RE	<0.765	U H	2.86	2.907	H	ug/L		102	1 - 120
Di-n-octyl phthalate - RE	<0.269	U H F1	2.86	4.539	H F1	ug/L		159	4 - 146
Fluoranthene - RE	<0.0883	U H	2.86	2.558	H	ug/L		90	26 - 137
Fluorene - RE	0.128	J H	2.86	2.073	H	ug/L		68	59 - 121
Hexachlorobenzene - RE	<0.0975	U H	2.86	2.095	H	ug/L		73	8 - 152
Hexachlorobutadiene - RE	<0.103	U H F1	2.86	0.3622	J H F1	ug/L		13	24 - 120
Hexachlorocyclopentadiene - RE	<0.0512	U H F1	2.86	0.3445	J H F1	ug/L		12	30 - 130
Hexachloroethane - RE	<0.102	U H F1	2.86	0.5252	J H F1	ug/L		18	40 - 120
Indeno[1,2,3-cd]pyrene - RE	<0.100	U H	2.86	2.070	H	ug/L		72	29 - 171
Isophorone - RE	<0.107	U H	2.86	3.176	H	ug/L		111	21 - 196
Naphthalene - RE	<0.0944	U H	2.86	1.611	H	ug/L		56	21 - 133
Nitrobenzene - RE	<0.0736	U H	2.86	3.017	H	ug/L		106	35 - 180
N-Nitrosodi-n-propylamine - RE	<0.119	U H	2.86	2.624	H	ug/L		92	14 - 230
N-Nitrosodiphenylamine - RE	<0.145	U H	2.86	2.538	H	ug/L		89	60 - 130
Pentachlorophenol - RE	<1.04	U H	2.86	3.947	H	ug/L		138	14 - 176
Phenanthrene - RE	<0.134	U H	2.86	2.193	H	ug/L		77	54 - 120
Phenol - RE	8.99	H F1	2.86	9.006	H F1	ug/L		0.5	5 - 120
Pyrene - RE	<0.0849	U H	2.86	2.422	H	ug/L		85	52 - 120
Pyridine - RE	<1.44	U H F1	2.86	<1.44	U H F1	ug/L		0	5 - 120
N-Nitro-o-toluidine - RE	<0.520	U H	2.86	3.390	H	ug/L		119	47 - 130
2,3,4,6-Tetrachlorophenol - RE	<0.211	U H	2.86	3.313	H	ug/L		116	33 - 132
Acetophenone - RE	<0.624	U H	2.86	2.098	H	ug/L		73	58 - 130
N-Nitrosopiperidine - RE	<0.467	U H	2.86	2.380	H	ug/L		83	54 - 130
Pentachlorobenzene - RE	<0.266	U H F1	2.86	1.183	H F1	ug/L		41	47 - 130
1,1'-Biphenyl - RE	8.54	H F1	2.86	1.479	H F1	ug/L		-247	52 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
4-Aminobiphenyl - RE	<0.394	U H F1	2.86	0.9192	H F1	ug/L		32	35 - 130
1,2,4,5-Tetrachlorobenzene - RE	<0.0957	U H *- F1	2.86	0.6955	H F1	ug/L		24	52 - 130
1,3,5-Trinitrobenzene - RE	<0.119	U H F2	2.86	3.346	H	ug/L		117	42 - 130
1,3-Dinitrobenzene - RE	<0.0773	U H F1	2.86	4.070	H F1	ug/L		142	54 - 130
1,4-Naphthoquinone - RE	<0.314	U H	2.86	2.510	H	ug/L		88	34 - 130
1-Naphthylamine - RE	<0.149	U H *-	2.86	1.401	H	ug/L		49	40 - 130
2,6-Dichlorophenol - RE	<0.118	U H	2.86	2.716	H	ug/L		95	40 - 130
2-Acetylaminofluorene - RE	<1.26	U *+ H F1	2.86	5.205	H F1	ug/L		182	50 - 150
2-Chlorophenol - RE	0.163	J H	2.86	2.767	H	ug/L		91	23 - 134
2-Naphthylamine - RE	<0.288	U H	2.86	0.8608	H	ug/L		30	30 - 130
2-Picoline - RE	<0.123	U H F1	2.86	0.6416	H	ug/L		22	22 - 130
2-Toluidine - RE	<0.306	U H	2.86	1.120	H	ug/L		39	30 - 130
3,3'-Dichlorobenzidine - RE	<0.183	U H	2.86	0.9648	H	ug/L		34	25 - 200
3,3'-Dimethylbenzidine - RE	<0.142	U H F1	2.86	<0.142	U H F1	ug/L		0	30 - 130
3-Methylcholanthrene - RE	<0.104	U H *-	2.86	2.293	H	ug/L		80	53 - 130
4-Nitroquinoline-1-oxide - RE	<0.730	U H	2.86	2.846	H	ug/L		100	39 - 130
7,12-Dimethylbenz(a)anthracene - RE	<0.241	U H	2.86	2.270	H	ug/L		79	63 - 130
alpha,alpha-Dimethyl phenethylamine - RE	<3.67	U H *1	2.86	<3.67	U H	ug/L		NC	20 - 130
Aramite Peak 1 - RE	<0.0785	U H F1 *+	1.43	2.248	H F1	ug/L		157	69 - 130
Aramite Peak 2 - RE	<0.0954	U H F1	1.43	2.109	H F1	ug/L		148	65 - 130
Diallate Peak 1 - RE	<0.0835	U H	2.11	1.741	H	ug/L		82	69 - 130
Diallate Peak 2 - RE	<0.0385	U H	0.743	0.6413	H	ug/L		86	67 - 130
Ethyl methanesulfonate - RE	<0.227	U H	2.86	1.642	H	ug/L		57	54 - 130
Hexachloropropene - RE	<0.300	U H *- F1	2.86	0.4455	J H F1	ug/L		16	37 - 130
Isosafrole Peak 1 - RE	<0.0463	U H	0.457	0.3460	J H	ug/L		76	54 - 130
Isosafrole Peak 2 - RE	<0.241	U H	2.40	1.975	H	ug/L		82	62 - 130
Methyl methanesulfonate - RE	<0.120	U H	2.86	0.9474	H	ug/L		33	30 - 130
N-Nitrosodiethylamine - RE	<0.538	U H	2.86	2.053	H	ug/L		72	54 - 130
N-Nitrosodimethylamine - RE	<0.100	U H F1	2.86	0.6597	H F1	ug/L		23	30 - 130
N-Nitrosodi-n-butylamine - RE	<0.516	U H	2.86	2.747	H	ug/L		96	58 - 130
N-Nitrosomethylethylamine - RE	<0.294	U H	2.86	1.621	H	ug/L		57	45 - 130
N-Nitrosomorpholine - RE	<0.220	U H	2.86	1.236	H	ug/L		43	37 - 130
N-Nitrosopyrrolidine - RE	<0.268	U H	2.86	1.372	H	ug/L		48	47 - 130
p-Dimethylamino azobenzene - RE	<0.0238	U H	2.86	3.172	H	ug/L		111	61 - 130
Pentachloronitrobenzene - RE	<0.100	U H	2.86	3.435	H	ug/L		120	56 - 130
Phenacetin - RE	<0.100	U H	2.86	3.033	H	ug/L		106	70 - 130
p-Phenylene diamine - RE	<0.500	U H *- F1	2.86	<0.500	U H F1	ug/L		0	3 - 120
Pronamide - RE	<0.100	U H	2.86	3.051	H	ug/L		107	70 - 130
Safrole, Total - RE	<0.0571	U H	2.86	2.080	H	ug/L		73	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr) - RE	174	S1+	35 - 130
2-Fluorobiphenyl - RE	107		43 - 130
2-Fluorophenol (Surr) - RE	86		19 - 120
Nitrobenzene-d5 (Surr) - RE	176	S1+	37 - 133



# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 860-74285-13 MS**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Phenol-d5 (Surr) - RE</i>	58		8 - 124
<i>p-Terphenyl-d14 - RE</i>	105		47 - 130

**Lab Sample ID: 860-74285-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 162155**

**Client Sample ID: MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 162111**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,2,4-Trichlorobenzene - RE	<0.0766	U H F1	2.86	0.8910	H F1	ug/L		31	44 - 142	15	30	
1,2-Dichlorobenzene - RE	0.174	J H F1	2.86	1.196	H F1	ug/L		36	51 - 130	20	30	
1,3-Dichlorobenzene - RE	<0.102	U H F1	2.86	0.8738	H F1	ug/L		31	47 - 130	17	30	
1,4-Dichlorobenzene - RE	0.327	J H F1	2.86	1.228	H F1	ug/L		32	46 - 130	18	30	
2,2'-oxybis[1-chloropropane] - RE	<1.43	U H	2.86	2.269	J H	ug/L		79	36 - 166	2	30	
2,4,5-Trichlorophenol - RE	<0.143	U H	2.86	3.031	H	ug/L		106	35 - 130	6	30	
2,4,6-Trichlorophenol - RE	<0.231	U H	2.86	2.899	H	ug/L		101	37 - 144	0	30	
2,4-Dichlorophenol - RE	<0.140	U H	2.86	2.407	H	ug/L		84	39 - 135	10	30	
2,4-Dimethylphenol - RE	<0.192	U H	2.86	2.365	H	ug/L		83	32 - 120	6	30	
1,4-Dioxane - RE	10.1	H	2.86	13.11	H	ug/L		105	28 - 130	14	30	
2,4-Dinitrophenol - RE	<0.104	U H	2.86	2.007	J H	ug/L		70	26 - 191	5	30	
2,4-Dinitrotoluene - RE	<0.205	U H	2.86	3.567	H	ug/L		125	39 - 139	2	30	
2,6-Dinitrotoluene - RE	<0.116	U H	2.86	3.654	H	ug/L		128	50 - 158	5	30	
2-Chloronaphthalene - RE	<0.378	U H F1	2.86	1.407	H F1	ug/L		49	60 - 120	5	30	
2-Methylnaphthalene - RE	<0.0603	U H	2.86	1.366	H	ug/L		48	25 - 175	7	30	
2-Methylphenol - RE	<0.105	U H	2.86	2.121	H	ug/L		74	14 - 176	3	30	
2-Nitroaniline - RE	<0.149	U H F1	2.86	3.795	H F1	ug/L		133	59 - 130	5	30	
2-Nitrophenol - RE	<0.136	U H	2.86	3.685	H	ug/L		129	29 - 182	9	30	
3 & 4 Methylphenol - RE	<0.139	U H	2.86	2.136	H	ug/L		75	22 - 130	2	30	
3-Nitroaniline - RE	<0.0853	U H	2.86	2.125	H	ug/L		74	30 - 130	6	30	
4,6-Dinitro-2-methylphenol - RE	<0.201	U H	2.86	3.688	H	ug/L		129	25 - 181	1	30	
4-Bromophenyl phenyl ether - RE	<0.100	U H	2.86	1.724	H	ug/L		60	53 - 127	16	30	
4-Chloro-3-methylphenol - RE	<0.104	U H	2.86	2.729	H	ug/L		96	22 - 147	8	30	
4-Chloroaniline - RE	<0.0385	U H	2.86	1.347	H	ug/L		47	30 - 130	10	30	
4-Chlorophenyl phenyl ether - RE	<0.130	U H	2.86	1.576	H	ug/L		55	25 - 158	3	30	
4-Nitroaniline - RE	<0.109	U H	2.86	2.565	H I	ug/L		90	53 - 130	11	30	
Acenaphthene - RE	0.833	H	2.86	2.566	H	ug/L		61	47 - 145	3	30	
Acenaphthylene - RE	<0.0996	U H	2.86	2.010	H	ug/L		70	33 - 145	6	30	
Aniline - RE	<0.0580	U H	2.86	1.108	H	ug/L		39	20 - 130	2	30	
Anthracene - RE	<0.0938	U H	2.86	1.831	H	ug/L		64	27 - 133	12	30	
Benzo[a]anthracene - RE	<0.0286	U H	2.86	2.432	H	ug/L		85	33 - 143	10	30	
Benzo[a]pyrene - RE	<0.0100	U H	2.86	2.199	H	ug/L		77	17 - 163	3	30	
Benzo[b]fluoranthene - RE	<0.0664	U H	2.86	2.039	H	ug/L		71	24 - 159	5	30	
Benzo[g,h,i]perylene - RE	<0.0345	U H	2.86	1.798	H	ug/L		63	25 - 219	4	30	
Benzo[k]fluoranthene - RE	<0.0473	U H	2.86	2.040	H	ug/L		71	11 - 162	1	30	
Benzyl alcohol - RE	0.894	J H I B	2.86	3.028	H	ug/L		75	57 - 130	13	30	
Bis(2-chloroethoxy)methane - RE	<0.0974	U H	2.86	2.271	H	ug/L		79	33 - 184	7	30	
Bis(2-chloroethyl)ether - RE	0.559	J H I	2.86	2.982	H	ug/L		85	12 - 158	6	30	
Bis(2-ethylhexyl) phthalate - RE	<0.900	U H	2.86	3.543	H	ug/L		124	8 - 158	7	30	
Butyl benzyl phthalate - RE	<0.500	U H	2.86	3.270	H	ug/L		114	70 - 152	14	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 860-74285-13 MSD**

**Matrix: Water**

**Analysis Batch: 162155**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 162111**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Chrysene - RE	<0.0815	U H	2.86	2.495	H	ug/L		87	17 - 168	6	30
Dibenz(a,h)anthracene - RE	<0.0509	U H	2.86	1.889	H	ug/L		66	32 - 227	2	30
Dibenzofuran - RE	<0.107	U H	2.86	1.903	H	ug/L		67	48 - 130	1	30
Diethyl phthalate - RE	<0.155	U H	2.86	2.598	H	ug/L		91	25 - 120	1	30
Dimethyl phthalate - RE	<0.108	U H	2.86	2.435	H	ug/L		85	25 - 120	3	30
Di-n-butyl phthalate - RE	<0.765	U H	2.86	2.651	H	ug/L		93	1 - 120	9	30
Di-n-octyl phthalate - RE	<0.269	U H F1	2.86	4.145	H	ug/L		145	4 - 146	9	30
Fluoranthene - RE	<0.0883	U H	2.86	2.309	H	ug/L		81	26 - 137	10	30
Fluorene - RE	0.128	J H	2.86	2.014	H	ug/L		66	59 - 121	3	30
Hexachlorobenzene - RE	<0.0975	U H	2.86	1.872	H	ug/L		66	8 - 152	11	30
Hexachlorobutadiene - RE	<0.103	U H F1	2.86	0.3148	J H F1	ug/L		11	24 - 120	14	30
Hexachlorocyclopentadiene - RE	<0.0512	U H F1	2.86	0.3240	J H F1	ug/L		11	30 - 130	6	30
Hexachloroethane - RE	<0.102	U H F1	2.86	0.5470	J H F1	ug/L		19	40 - 120	4	30
Indeno[1,2,3-cd]pyrene - RE	<0.100	U H	2.86	1.985	H	ug/L		69	29 - 171	4	30
Isophorone - RE	<0.107	U H	2.86	2.901	H	ug/L		102	21 - 196	9	30
Naphthalene - RE	<0.0944	U H	2.86	1.649	H	ug/L		58	21 - 133	2	30
Nitrobenzene - RE	<0.0736	U H	2.86	2.780	H	ug/L		97	35 - 180	8	30
N-Nitrosodi-n-propylamine - RE	<0.119	U H	2.86	2.883	H	ug/L		101	14 - 230	9	30
N-Nitrosodiphenylamine - RE	<0.145	U H	2.86	2.449	H	ug/L		86	60 - 130	4	30
Pentachlorophenol - RE	<1.04	U H	2.86	3.641	H	ug/L		127	14 - 176	8	30
Phenanthrene - RE	<0.134	U H	2.86	1.951	H	ug/L		68	54 - 120	12	30
Phenol - RE	8.99	H F1	2.86	9.933	H	ug/L		33	5 - 120	10	30
Pyrene - RE	<0.0849	U H	2.86	2.254	H	ug/L		79	52 - 120	7	30
Pyridine - RE	<1.44	U H F1	2.86	<1.44	U H F1	ug/L		0	5 - 120	NC	30
N-Nitro-o-toluidine - RE	<0.520	U H	2.86	3.340	H	ug/L		117	47 - 130	2	30
2,3,4,6-Tetrachlorophenol - RE	<0.211	U H	2.86	3.166	H	ug/L		111	33 - 132	5	30
Acetophenone - RE	<0.624	U H	2.86	1.924	H	ug/L		67	58 - 130	9	30
N-Nitrosopiperidine - RE	<0.467	U H	2.86	2.259	H	ug/L		79	54 - 130	5	30
Pentachlorobenzene - RE	<0.266	U H F1	2.86	1.118	H F1	ug/L		39	47 - 130	6	30
1,1'-Biphenyl - RE	8.54	H F1	2.86	1.577	H F1	ug/L		-244	52 - 130	6	30
4-Aminobiphenyl - RE	<0.394	U H F1	2.86	0.9284	H F1	ug/L		32	35 - 130	1	30
1,2,4,5-Tetrachlorobenzene - RE	<0.0957	U H * - F1	2.86	0.7427	H F1	ug/L		26	52 - 130	7	30
1,3,5-Trinitrobenzene - RE	<0.119	U H F2	2.86	2.428	H I F2	ug/L		85	42 - 130	32	30
1,3-Dinitrobenzene - RE	<0.0773	U H F1	2.86	3.769	H F1	ug/L		132	54 - 130	8	30
1,4-Naphthoquinone - RE	<0.314	U H	2.86	2.362	H	ug/L		83	34 - 130	6	30
1-Naphthylamine - RE	<0.149	U H * -	2.86	1.371	H	ug/L		48	40 - 130	2	30
2,6-Dichlorophenol - RE	<0.118	U H	2.86	2.436	H	ug/L		85	40 - 130	11	30
2-Acetylaminofluorene - RE	<1.26	U *+ H F1	2.86	4.519	H F1	ug/L		158	50 - 150	14	30
2-Chlorophenol - RE	0.163	J H	2.86	2.903	H	ug/L		96	23 - 134	5	30
2-Naphthylamine - RE	<0.288	U H	2.86	0.8813	H	ug/L		31	30 - 130	2	30
2-Picoline - RE	<0.123	U H F1	2.86	0.6136	H F1	ug/L		21	22 - 130	4	30
2-Toluidine - RE	<0.306	U H	2.86	1.102	H	ug/L		39	30 - 130	2	30
3,3'-Dichlorobenzidine - RE	<0.183	U H	2.86	0.7231	H	ug/L		25	25 - 200	29	30
3,3'-Dimethylbenzidine - RE	<0.142	U H F1	2.86	<0.142	U H F1	ug/L		0	30 - 130	NC	30
3-Methylcholanthrene - RE	<0.104	U H * -	2.86	2.235	H	ug/L		78	53 - 130	3	30
4-Nitroquinoline-1-oxide - RE	<0.730	U H	2.86	2.519	H	ug/L		88	39 - 130	12	30
7,12-Dimethylbenz(a)anthracene - RE	<0.241	U H	2.86	2.199	H	ug/L		77	63 - 130	3	30

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

**Lab Sample ID: 860-74285-13 MSD**

**Matrix: Water**

**Analysis Batch: 162155**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 162111**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
alpha,alpha-Dimethyl phenethylamine - RE	<3.67	U H *1	2.86	<3.67	U H	ug/L		NC	20 - 130	NC	30
Aramite Peak 1 - RE	<0.0785	U H F1 *+	1.43	2.040	H F1	ug/L		143	69 - 130	10	30
Aramite Peak 2 - RE	<0.0954	U H F1	1.43	1.760	H	ug/L		123	65 - 130	18	30
Diallate Peak 1 - RE	<0.0835	U H	2.11	1.602	H	ug/L		76	69 - 130	8	30
Diallate Peak 2 - RE	<0.0385	U H	0.743	0.6433	H	ug/L		87	67 - 130	0	30
Ethyl methanesulfonate - RE	<0.227	U H	2.86	1.685	H	ug/L		59	54 - 130	3	30
Hexachloropropene - RE	<0.300	U H *- F1	2.86	0.4373	J H F1	ug/L		15	37 - 130	2	30
Isosafrole Peak 1 - RE	<0.0463	U H	0.457	0.3355	J H	ug/L		73	54 - 130	3	30
Isosafrole Peak 2 - RE	<0.241	U H	2.40	1.842	H	ug/L		77	62 - 130	7	30
Methyl methanesulfonate - RE	<0.120	U H	2.86	0.9419	H	ug/L		33	30 - 130	1	30
N-Nitrosodiethylamine - RE	<0.538	U H	2.86	2.115	H	ug/L		74	54 - 130	3	30
N-Nitrosodimethylamine - RE	<0.100	U H F1	2.86	0.6505	H F1	ug/L		23	30 - 130	1	30
N-Nitrosodi-n-butylamine - RE	<0.516	U H	2.86	2.539	H	ug/L		89	58 - 130	8	30
N-Nitrosomethylethylamine - RE	<0.294	U H	2.86	1.716	H	ug/L		60	45 - 130	6	30
N-Nitrosomorpholine - RE	<0.220	U H	2.86	1.315	H	ug/L		46	37 - 130	6	30
N-Nitrosopyrrolidine - RE	<0.268	U H	2.86	1.431	H	ug/L		50	47 - 130	4	30
p-Dimethylamino azobenzene - RE	<0.0238	U H	2.86	2.754	H	ug/L		96	61 - 130	14	30
Pentachloronitrobenzene - RE	<0.100	U H	2.86	3.381	H	ug/L		118	56 - 130	2	30
Phenacetin - RE	<0.100	U H	2.86	2.692	H	ug/L		94	70 - 130	12	30
p-Phenylene diamine - RE	<0.500	U H *- F1	2.86	<0.500	U H F1	ug/L		0	3 - 120	NC	30
Pronamide - RE	<0.100	U H	2.86	2.673	H	ug/L		94	70 - 130	13	30
Safrole, Total - RE	<0.0571	U H	2.86	2.022	H	ug/L		71	70 - 130	3	30
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
2,4,6-Tribromophenol (Surr) - RE	191	S1+	35 - 130								
2-Fluorobiphenyl - RE	108		43 - 130								
2-Fluorophenol (Surr) - RE	96		19 - 120								
Nitrobenzene-d5 (Surr) - RE	179	S1+	37 - 133								
Phenol-d5 (Surr) - RE	61		8 - 124								
p-Terphenyl-d14 - RE	113		47 - 130								

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) - REDL

**Lab Sample ID: 860-74285-13 MS**

**Matrix: Water**

**Analysis Batch: 162591**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 162111**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Diphenyl ether - REDL	710	H	2.86	697.1	H 4	ug/L		-442	61 - 130		

**Lab Sample ID: 860-74285-13 MSD**

**Matrix: Water**

**Analysis Batch: 162591**

**Client Sample ID: MW-18**

**Prep Type: Total/NA**

**Prep Batch: 162111**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Diphenyl ether - REDL	710	H	2.86	666.8	H 4	ug/L		-1500	61 - 130	4	30

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## GC/MS VOA

### Analysis Batch: 160971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-1	MW-1	Total/NA	Water	8260D	
860-74285-2	MW-2	Total/NA	Water	8260D	
860-74285-3	MW-3	Total/NA	Water	8260D	
860-74285-4	TB-07 051324	Total/NA	Water	8260D	
860-74285-5	MW-10	Total/NA	Water	8260D	
860-74285-6	MW-11	Total/NA	Water	8260D	
860-74285-7	RB-01	Total/NA	Water	8260D	
860-74285-8	MW-12	Total/NA	Water	8260D	
860-74285-9	MW-24	Total/NA	Water	8260D	
860-74285-10	MW-19	Total/NA	Water	8260D	
860-74285-11	MW-20	Total/NA	Water	8260D	
860-74285-12	MW-22	Total/NA	Water	8260D	
860-74285-13	MW-18	Total/NA	Water	8260D	
860-74285-14	MW-9	Total/NA	Water	8260D	
MB 860-160971/10	Method Blank	Total/NA	Water	8260D	
LCS 860-160971/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-160971/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74285-13 MS	MW-18	Total/NA	Water	8260D	
860-74285-13 MSD	MW-18	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 161269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-1	MW-1	Total/NA	Water	3511	
860-74285-2	MW-2	Total/NA	Water	3511	
860-74285-3	MW-3	Total/NA	Water	3511	
860-74285-5	MW-10	Total/NA	Water	3511	
860-74285-6	MW-11	Total/NA	Water	3511	
860-74285-7	RB-01	Total/NA	Water	3511	
860-74285-8	MW-12	Total/NA	Water	3511	
860-74285-9	MW-24	Total/NA	Water	3511	
860-74285-10 - DL	MW-19	Total/NA	Water	3511	
860-74285-10 - DL2	MW-19	Total/NA	Water	3511	
860-74285-10	MW-19	Total/NA	Water	3511	
860-74285-10 - RA	MW-19	Total/NA	Water	3511	
860-74285-11	MW-20	Total/NA	Water	3511	
860-74285-11 - DL	MW-20	Total/NA	Water	3511	
860-74285-11 - DL2	MW-20	Total/NA	Water	3511	
860-74285-11 - RA	MW-20	Total/NA	Water	3511	
860-74285-12 - DL	MW-22	Total/NA	Water	3511	
860-74285-12	MW-22	Total/NA	Water	3511	
860-74285-12 - RA	MW-22	Total/NA	Water	3511	
860-74285-13	MW-18	Total/NA	Water	3511	
860-74285-14	MW-9	Total/NA	Water	3511	
860-74285-14 - RA	MW-9	Total/NA	Water	3511	
MB 860-161269/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-161269/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-161269/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-161269/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-161269/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 161269 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-13 MS	MW-18	Total/NA	Water	3511	
860-74285-13 MSD	MW-18	Total/NA	Water	3511	

### Analysis Batch: 161429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-1	MW-1	Total/NA	Water	8270E	161269
860-74285-2	MW-2	Total/NA	Water	8270E	161269
860-74285-3	MW-3	Total/NA	Water	8270E	161269
860-74285-5	MW-10	Total/NA	Water	8270E	161269
860-74285-6	MW-11	Total/NA	Water	8270E	161269
860-74285-7	RB-01	Total/NA	Water	8270E	161269
860-74285-8	MW-12	Total/NA	Water	8270E	161269
860-74285-9	MW-24	Total/NA	Water	8270E	161269
860-74285-13	MW-18	Total/NA	Water	8270E	161269
MB 860-161269/1-A	Method Blank	Total/NA	Water	8270E	161269
LCS 860-161269/2-A	Lab Control Sample	Total/NA	Water	8270E	161269
LCS 860-161269/4-A	Lab Control Sample	Total/NA	Water	8270E	161269
LCSD 860-161269/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	161269
LCSD 860-161269/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	161269
860-74285-13 MS	MW-18	Total/NA	Water	8270E	161269
860-74285-13 MSD	MW-18	Total/NA	Water	8270E	161269

### Analysis Batch: 161539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-10	MW-19	Total/NA	Water	8270E	161269
860-74285-11	MW-20	Total/NA	Water	8270E	161269
860-74285-12	MW-22	Total/NA	Water	8270E	161269
860-74285-14	MW-9	Total/NA	Water	8270E	161269

### Analysis Batch: 161609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-10 - DL2	MW-19	Total/NA	Water	8270E	161269
860-74285-11 - DL	MW-20	Total/NA	Water	8270E	161269
860-74285-11 - DL2	MW-20	Total/NA	Water	8270E	161269
860-74285-12 - DL	MW-22	Total/NA	Water	8270E	161269

### Analysis Batch: 161906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-10 - DL	MW-19	Total/NA	Water	8270E	161269
860-74285-11 - DL	MW-20	Total/NA	Water	8270E	161269
860-74285-12 - DL	MW-22	Total/NA	Water	8270E	161269

### Analysis Batch: 161920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-10 - RA	MW-19	Total/NA	Water	8270E	161269
860-74285-11 - RA	MW-20	Total/NA	Water	8270E	161269
860-74285-12 - RA	MW-22	Total/NA	Water	8270E	161269
860-74285-14 - RA	MW-9	Total/NA	Water	8270E	161269

# QC Association Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## GC/MS Semi VOA

### Prep Batch: 162111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-1 - RE	MW-1	Total/NA	Water	3511	
860-74285-2 - RE	MW-2	Total/NA	Water	3511	
860-74285-3 - RE	MW-3	Total/NA	Water	3511	
860-74285-5 - RE	MW-10	Total/NA	Water	3511	
860-74285-6 - RE	MW-11	Total/NA	Water	3511	
860-74285-7 - RE	RB-01	Total/NA	Water	3511	
860-74285-8 - RE	MW-12	Total/NA	Water	3511	
860-74285-9 - RE	MW-24	Total/NA	Water	3511	
860-74285-10 - REDL2	MW-19	Total/NA	Water	3511	
860-74285-10 - REDL	MW-19	Total/NA	Water	3511	
860-74285-10	MW-19	Total/NA	Water	3511	
860-74285-10 - RE	MW-19	Total/NA	Water	3511	
860-74285-11 - REDL	MW-20	Total/NA	Water	3511	
860-74285-11 - REDL2	MW-20	Total/NA	Water	3511	
860-74285-11 - RE	MW-20	Total/NA	Water	3511	
860-74285-12	MW-22	Total/NA	Water	3511	
860-74285-12 - REDL	MW-22	Total/NA	Water	3511	
860-74285-12 - RE	MW-22	Total/NA	Water	3511	
860-74285-13 - REDL	MW-18	Total/NA	Water	3511	
860-74285-13 - RE	MW-18	Total/NA	Water	3511	
860-74285-14 - RE	MW-9	Total/NA	Water	3511	
MB 860-162111/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-162111/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-162111/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-162111/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-162111/5-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-74285-13 MS - REDL	MW-18	Total/NA	Water	3511	
860-74285-13 MS - RE	MW-18	Total/NA	Water	3511	
860-74285-13 MSD - REDL	MW-18	Total/NA	Water	3511	
860-74285-13 MSD - RE	MW-18	Total/NA	Water	3511	

### Analysis Batch: 162137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-10 - REDL	MW-19	Total/NA	Water	8270E	162111
860-74285-10 - REDL2	MW-19	Total/NA	Water	8270E	162111
860-74285-11 - REDL	MW-20	Total/NA	Water	8270E	162111
860-74285-11 - REDL2	MW-20	Total/NA	Water	8270E	162111
860-74285-12 - REDL	MW-22	Total/NA	Water	8270E	162111

### Analysis Batch: 162155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-1 - RE	MW-1	Total/NA	Water	8270E	162111
860-74285-2 - RE	MW-2	Total/NA	Water	8270E	162111
860-74285-3 - RE	MW-3	Total/NA	Water	8270E	162111
860-74285-5 - RE	MW-10	Total/NA	Water	8270E	162111
860-74285-6 - RE	MW-11	Total/NA	Water	8270E	162111
860-74285-7 - RE	RB-01	Total/NA	Water	8270E	162111
860-74285-8 - RE	MW-12	Total/NA	Water	8270E	162111
860-74285-9 - RE	MW-24	Total/NA	Water	8270E	162111
860-74285-10 - RE	MW-19	Total/NA	Water	8270E	162111
860-74285-11 - RE	MW-20	Total/NA	Water	8270E	162111

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 162155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-12 - RE	MW-22	Total/NA	Water	8270E	162111
860-74285-13 - RE	MW-18	Total/NA	Water	8270E	162111
860-74285-14 - RE	MW-9	Total/NA	Water	8270E	162111
MB 860-162111/1-A	Method Blank	Total/NA	Water	8270E	162111
LCS 860-162111/2-A	Lab Control Sample	Total/NA	Water	8270E	162111
LCS 860-162111/4-A	Lab Control Sample	Total/NA	Water	8270E	162111
LCSD 860-162111/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	162111
LCSD 860-162111/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	162111
860-74285-13 MS - RE	MW-18	Total/NA	Water	8270E	162111
860-74285-13 MSD - RE	MW-18	Total/NA	Water	8270E	162111

### Analysis Batch: 162591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74285-10	MW-19	Total/NA	Water	8270E	162111
860-74285-10	MW-19	Total/NA	Water	8270E	161269
860-74285-11	MW-20	Total/NA	Water	8270E	161269
860-74285-12	MW-22	Total/NA	Water	8270E	162111
860-74285-12	MW-22	Total/NA	Water	8270E	161269
860-74285-13 - REDL	MW-18	Total/NA	Water	8270E	162111
860-74285-14	MW-9	Total/NA	Water	8270E	161269
860-74285-13 MS - REDL	MW-18	Total/NA	Water	8270E	162111
860-74285-13 MSD - REDL	MW-18	Total/NA	Water	8270E	162111

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Client Sample ID: MW-1

Lab Sample ID: 860-74285-1

Date Collected: 05/13/24 13:05

Matrix: Water

Date Received: 05/15/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 12:52	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 18:26	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 15:42	EM	EET HOU

## Client Sample ID: MW-2

Lab Sample ID: 860-74285-2

Date Collected: 05/13/24 14:05

Matrix: Water

Date Received: 05/15/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 13:13	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 18:55	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 16:11	EM	EET HOU

## Client Sample ID: MW-3

Lab Sample ID: 860-74285-3

Date Collected: 05/13/24 15:03

Matrix: Water

Date Received: 05/15/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 13:33	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 19:23	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 16:40	EM	EET HOU

## Client Sample ID: TB-07 051324

Lab Sample ID: 860-74285-4

Date Collected: 05/13/24 00:00

Matrix: Water

Date Received: 05/15/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 12:32	A1S	EET HOU

## Client Sample ID: MW-10

Lab Sample ID: 860-74285-5

Date Collected: 05/14/24 11:29

Matrix: Water

Date Received: 05/15/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 14:14	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 19:52	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 17:08	EM	EET HOU

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# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Client Sample ID: MW-11

Date Collected: 05/14/24 13:41

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74285-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 14:35	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 20:21	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 17:37	EM	EET HOU

## Client Sample ID: RB-01

Date Collected: 05/14/24 13:55

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74285-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 14:55	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 17:57	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 18:06	EM	EET HOU

## Client Sample ID: MW-12

Date Collected: 05/14/24 14:37

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74285-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 15:16	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 20:49	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 18:34	EM	EET HOU

## Client Sample ID: MW-24

Date Collected: 05/13/24 12:54

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74285-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 15:36	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 21:18	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 19:03	EM	EET HOU

## Client Sample ID: MW-19

Date Collected: 05/13/24 14:03

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74285-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 17:19	A1S	EET HOU

Eurofins Houston

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-19**  
**Date Collected: 05/13/24 14:03**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL2	1000	1 mL	1 mL	161609	05/22/24 10:48	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	161906	05/23/24 19:28	EM	EET HOU
Total/NA	Prep	3511	REDL		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	REDL	10	1 mL	1 mL	162137	05/24/24 15:29	EM	EET HOU
Total/NA	Prep	3511	REDL2		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	REDL2	100	1 mL	1 mL	162137	05/24/24 15:58	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E		500	1 mL	1 mL	162591	05/28/24 13:47	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	162591	05/28/24 14:44	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161539	05/22/24 07:14	EM	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161920	05/23/24 13:17	PXS	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 19:31	EM	EET HOU

**Client Sample ID: MW-20**  
**Date Collected: 05/13/24 14:55**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-11**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 17:39	A1S	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL	20	1 mL	1 mL	161609	05/22/24 11:17	PXS	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL2	500	1 mL	1 mL	161609	05/22/24 11:45	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	161906	05/23/24 19:57	EM	EET HOU
Total/NA	Prep	3511	REDL		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	REDL	10	1 mL	1 mL	162137	05/24/24 17:54	EM	EET HOU
Total/NA	Prep	3511	REDL2		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	REDL2	100	1 mL	1 mL	162137	05/24/24 18:23	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	162591	05/28/24 15:13	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161539	05/22/24 07:42	EM	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161920	05/23/24 13:46	PXS	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 20:00	EM	EET HOU

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Client Sample ID: MW-22**  
**Date Collected: 05/14/24 11:15**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-12**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 18:00	A1S	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL	1000	1 mL	1 mL	161609	05/22/24 12:14	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	161906	05/23/24 20:26	EM	EET HOU
Total/NA	Prep	3511	REDL		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	REDL	10	1 mL	1 mL	162137	05/24/24 18:52	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E		1000	1 mL	1 mL	162591	05/28/24 14:16	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	162591	05/28/24 15:41	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161539	05/22/24 08:11	EM	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161920	05/23/24 14:15	PXS	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 20:28	EM	EET HOU

**Client Sample ID: MW-18**  
**Date Collected: 05/14/24 13:26**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-13**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 13:54	A1S	EET HOU
Total/NA	Prep	3511	REDL		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	REDL	50	1 mL	1 mL	162591	05/28/24 16:38	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161429	05/21/24 16:30	EM	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 13:48	EM	EET HOU

**Client Sample ID: MW-9**  
**Date Collected: 05/14/24 14:51**  
**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74285-14**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	160971	05/18/24 15:57	A1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	162591	05/28/24 16:10	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161539	05/22/24 08:39	EM	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161269	05/20/24 16:16	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161920	05/23/24 14:43	PXS	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	162111	05/24/24 05:36	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	162155	05/24/24 15:14	EM	EET HOU

Eurofins Houston

# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-74285-1	MW-1	Water	05/13/24 13:05	05/15/24 09:30
860-74285-2	MW-2	Water	05/13/24 14:05	05/15/24 09:30
860-74285-3	MW-3	Water	05/13/24 15:03	05/15/24 09:30
860-74285-4	TB-07 051324	Water	05/13/24 00:00	05/15/24 09:30
860-74285-5	MW-10	Water	05/14/24 11:29	05/15/24 09:30
860-74285-6	MW-11	Water	05/14/24 13:41	05/15/24 09:30
860-74285-7	RB-01	Water	05/14/24 13:55	05/15/24 09:30
860-74285-8	MW-12	Water	05/14/24 14:37	05/15/24 09:30
860-74285-9	MW-24	Water	05/13/24 12:54	05/15/24 09:30
860-74285-10	MW-19	Water	05/13/24 14:03	05/15/24 09:30
860-74285-11	MW-20	Water	05/13/24 14:55	05/15/24 09:30
860-74285-12	MW-22	Water	05/14/24 11:15	05/15/24 09:30
860-74285-13	MW-18	Water	05/14/24 13:26	05/15/24 09:30
860-74285-14	MW-9	Water	05/14/24 14:51	05/15/24 09:30

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**Client Information**

Client Contact:  
Mr Antonio Cardoso  
Company:  
Arcadis U.S. Inc.  
Address:  
4300 West Cypress Street Suite 450  
City:  
Tampa  
State Zip:  
FL, 33607  
Phone:  
Email:  
antonio.cardoso@arcadis.com  
Project Name:  
Heracles Hattsburg, MS  
Site:  
SSCVA#

Sampler:  
K. Monahan / B. G. Smith  
Phone:  
225-205-8846  
E-Mail:  
Sachin.Kudchadkar@eurofins.com

Lab P/N:  
Kudchadkar Sachin G  
E-Mail:  
Sachin.Kudchadkar@eurofins.com

Carrier Tracking No(s):

ICCC No:  
860-29133-10045.1  
Page:  
Page 1 of 8  
Job #:  
1062

Due Date Requested:

7AT Requested (days):  
Standard

Analysis Requested

Preparation Codes:  
N None

Compliance Project: A Yes A No  
PO #:  
1098576  
WQ #:  
Project #:  
86006085  
SSCVA#

Field Filtered Sample (Yes or No)	
8270E_QQQ (MOD) Appendix 9 SVOCs	X
8260D (MOD) Appendix 9 VOCs	X

State of Origin:

Other:

**Sample Identification**

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Master Type (Master, Sample, Duplicate, Sub)	Preservation Code	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note
MMW-1	5/13/24	1305	G	Water	W	X	1	
MMW-2	"	1405	G	Water	W	X	1	
MMW-3	"	1503	G	Water	W	X	1	
MMW-4	5/14/24	1129	G	Water	W	X	1	
MMW-5	"	1341	G	Water	W	X	1	
MMW-6	"	1355	G	Water	W	X	1	
MMW-7	"	1437	G	Water	W	X	1	
MMW-8	"	"	G	Water	W	X	1	
MMW-9	"	"	G	Water	W	X	1	
MMW-10	"	"	G	Water	W	X	1	
MMW-11	"	"	G	Water	W	X	1	



860-74285 Chain of Custody

Possible Hazard Identification  
 Non-Hazard  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown  
 Radiological  
 Deliverable Requested: I, II, III, IV Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: 5-14-24 1540 Company: Arcadis  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No: 2528662  
 A Yes A No  
 Received by: \_\_\_\_\_ Date/Time: 5/17/24 9:30 Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: H00368  
 Method of Shipment: \_\_\_\_\_  
 Ver 01/16/2019

CF 102 43



4145 Greenbriar Dr  
Stafford, TX 77477  
Phone (281) 240-4200

15VAV Wells

Chain of Custody Record

**Client Information**  
Client Contact: Mr Antonio Cardoso  
Company: Arcadis U.S., Inc.  
Address: 4300 West Cypress Street Suite 450  
City: Tampa  
State, Zip: FL, 33607  
Phone: 10955575  
Email: antonio.cardoso@arcadis.com  
Project Name: Hercules Hattiesburg, MS  
Site:   
Project #: 86006085  
SSOV#:   
Lab P#: Sachin Kutchadkar Sachin G  
E-Mail: Sachin.Kutchadkar@at.eurofirrus.com  
Carrier Trading No(s):  
State of Origin: MS  
COC No: 860-29133-10045.2  
Page: 2 of 2  
Page: 2 of 2  
Job #: 2 of 2

Due Date Requested:   
TAT Requested (days):   
Compliance Project:  Yes  No  
PO #: 10955575  
WOC #:   
Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Water, Sediment, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Special Instructions/Note
MW-12	5/13/24	1254	G	Water		N	
MW-13	5/13/24	1403	G	Water		N	
MW-14	5/13/24	1455	G	Water		N	
MW-15	5/14/24	1115	G	Water		N	
MW-16	5/14/24	1326	G	Water		N	
MW-17	5/14/24	1451	G	Water		N	
MW-18				Water			
MW-19				Water			
MW-20				Water			
MW-21				Water			
MW-22				Water			

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV Other (specify):  
 Empty Kit Relinquished by:   
 Date:   
 Time:   
 Method of Shipment:   
 Received by:   
 Date/Time:   
 Company:   
 Received by:   
 Date/Time:   
 Company:   
 Cooler Temperature(s) °C and Other Remarks:   
 Ver: 01/16/2019

Relinquished by: *Antonio Cardoso* Date/Time: *5/14/24* Company: *Arcadis*  
 Relinquished by: *MSP* Date/Time: *1540* Company: *Arcadis*  
 Relinquished by: *MSP* Date/Time: *1540* Company: *Arcadis*  
 Custody Seal No. *2528662*  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/Requirements:  
 Total Number of containers:   
 Special Instructions/Note:  
 43

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74285-1

**Login Number: 74285**

**List Source: Eurofins Houston**

**List Number: 1**

**Creator: Torrez, Lisandra**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	ONE VIAL BROKEN FOR SAMPLE # 5
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/30/2024 5:08:48 PM

## JOB DESCRIPTION

Hercules Hattiesburg, MS

## JOB NUMBER

860-74297-1

# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
5/30/2024 5:08:48 PM

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Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74297-1

Job ID: 860-74297-1

Eurofins Houston

## Job Narrative 860-74297-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/15/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-161114 recovered outside acceptance criteria, low biased, for Acrolein (-25.2%) A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The surrogate recovery for the laboratory control sample duplicate associated with preparation batch 860-161236 and analytical batch 860-161199 was outside the upper control limit.

Method 8270E\_QQQ: The method blank for preparation batch 860-161236 and analytical batch 860-161199 contained Benzyl alcohol above the method detection limit. These target analytes concentration were less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E\_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-161236 and analytical batch 860-161199 recovered outside control limits for multiple analytes.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-161236 and analytical batch 860-161199 recovered outside control limits for the following analytes: 1-Naphthylamine, 3,3'-Dimethylbenzidine, 4-Nitroaniline, alpha,alpha-Dimethyl phenethylamine, N-Nitro-o-toluidine, N-Nitrosodimethylamine and p-Phenylene diamine. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: CM-04 (860-74297-2) and CM-03 (860-74297-3). These results have been reported and qualified.

Method 8270E\_QQQ: Surrogate recovery for the following sample was outside control limits: CM-00 (860-74297-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Client Sample ID: CM-05

## Lab Sample ID: 860-74297-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.69		1.00	0.464	ug/L	1		8260D	Total/NA
1,4-Dioxane	4.05		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0148	J	0.0571	0.0100	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.00	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.169	J	0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RA	0.653		0.571	0.138	ug/L	1		8270E	Total/NA

## Client Sample ID: CM-04

## Lab Sample ID: 860-74297-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.864	J	1.00	0.552	ug/L	1		8260D	Total/NA
Chloroform	6.95		1.00	0.464	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.780		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0125	J	0.0571	0.0100	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.991	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.230	J	0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RE	0.288	J	0.571	0.138	ug/L	1		8270E	Total/NA

## Client Sample ID: CM-03

## Lab Sample ID: 860-74297-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.928	J	1.00	0.552	ug/L	1		8260D	Total/NA
Chloroform	7.02		1.00	0.464	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.310	J I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.914	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.367	J	0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RE	0.325	J	0.571	0.138	ug/L	1		8270E	Total/NA

## Client Sample ID: CM-02

## Lab Sample ID: 860-74297-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.855	J	1.00	0.552	ug/L	1		8260D	Total/NA
Chloroform	5.79		1.00	0.464	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.422	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.06	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: CM-01

## Lab Sample ID: 860-74297-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.33		1.00	0.464	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.769		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.05	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: CM-00

## Lab Sample ID: 860-74297-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.75		1.00	0.464	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.113	J I	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.984	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: TB-08 (051424)

## Lab Sample ID: 860-74297-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Propanol	79.2		10.0	5.23	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-05**

**Lab Sample ID: 860-74297-1**

**Date Collected: 05/14/24 07:35**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 14:31	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 14:31	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 14:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 14:31	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 14:31	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 14:31	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 14:31	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 14:31	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 14:31	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 14:31	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 14:31	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 14:31	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 14:31	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 14:31	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 14:31	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 14:31	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 14:31	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 14:31	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 14:31	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 14:31	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 14:31	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 14:31	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 14:31	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 14:31	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 14:31	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 14:31	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 14:31	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/20/24 14:31	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 14:31	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 14:31	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 14:31	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 14:31	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 14:31	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 14:31	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 14:31	1
<b>Chloroform</b>	<b>2.69</b>		1.00	0.464	ug/L			05/20/24 14:31	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 14:31	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 14:31	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 14:31	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 14:31	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 14:31	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 14:31	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 14:31	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 14:31	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 14:31	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 14:31	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 14:31	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 14:31	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 14:31	1

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-05**

**Lab Sample ID: 860-74297-1**

**Date Collected: 05/14/24 07:35**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 14:31	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 14:31	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 14:31	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 14:31	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 14:31	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 14:31	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 14:31	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 14:31	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 14:31	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 14:31	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 14:31	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 14:31	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 14:31	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 14:31	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 14:31	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 14:31	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 14:31	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 14:31	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 14:31	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/20/24 14:31	1
4-Bromofluorobenzene (Surr)	96		74 - 124		05/20/24 14:31	1
Dibromofluoromethane (Surr)	96		75 - 131		05/20/24 14:31	1
Toluene-d8 (Surr)	99		80 - 120		05/20/24 14:31	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,3-Dichlorobenzene	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/20/24 21:16	1
<b>1,4-Dioxane</b>	<b>4.05</b>		0.571	0.0890	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/20/24 21:16	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/20/24 21:16	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/20/24 21:16	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/20/24 21:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-05**

**Lab Sample ID: 860-74297-1**

**Date Collected: 05/14/24 07:35**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:16	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 21:16	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 21:16	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/20/24 21:16	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 13:29	05/20/24 21:16	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 21:16	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/20/24 21:16	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/20/24 21:16	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/20/24 21:16	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/20/24 21:16	1
<b>Benzo[a]pyrene</b>	<b>0.0148</b>	<b>J</b>	0.0571	0.0100	ug/L		05/20/24 13:29	05/20/24 21:16	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/20/24 21:16	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/20/24 21:16	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/20/24 21:16	1
<b>Benzyl alcohol</b>	<b>1.00</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 13:29	05/20/24 21:16	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/20/24 21:16	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/20/24 21:16	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/20/24 21:16	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 21:16	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/20/24 21:16	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/20/24 21:16	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 21:16	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/20/24 21:16	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/20/24 21:16	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/20/24 21:16	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/20/24 21:16	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/20/24 21:16	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/20/24 21:16	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/20/24 21:16	1
Hexachlorobutadiene	<0.103	U *1	0.571	0.103	ug/L		05/20/24 13:29	05/20/24 21:16	1
Hexachlorocyclopentadiene	<0.0512	U *1	0.571	0.0512	ug/L		05/20/24 13:29	05/20/24 21:16	1
Hexachloroethane	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 21:16	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:16	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 21:16	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/20/24 21:16	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/20/24 21:16	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/20/24 21:16	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/20/24 21:16	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/20/24 21:16	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/20/24 21:16	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/20/24 21:16	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/20/24 21:16	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/20/24 21:16	1
<b>Diphenyl ether</b>	<b>0.169</b>	<b>J</b>	0.571	0.0910	ug/L		05/20/24 13:29	05/20/24 21:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-05**

**Lab Sample ID: 860-74297-1**

**Date Collected: 05/14/24 07:35**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/20/24 21:16	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/20/24 21:16	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/20/24 21:16	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 21:16	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 13:29	05/20/24 21:16	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/20/24 21:16	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/20/24 21:16	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/20/24 13:29	05/20/24 21:16	1
3-Methylcholanthrene	<0.104	U * *1	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 21:16	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/20/24 21:16	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 21:16	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 13:29	05/20/24 21:16	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/20/24 21:16	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 21:16	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 21:16	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 21:16	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 21:16	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 21:16	1
Dimethoate	<0.122	U *1	0.571	0.122	ug/L		05/20/24 13:29	05/20/24 21:16	1
Dinoseb	<0.570	U * *1	0.571	0.570	ug/L		05/20/24 13:29	05/20/24 21:16	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/20/24 13:29	05/20/24 21:16	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/20/24 21:16	1
Ethyl Parathion	<0.0502	U *1	0.229	0.0502	ug/L		05/20/24 13:29	05/20/24 21:16	1
Famphur	<0.151	U * *1	1.14	0.151	ug/L		05/20/24 13:29	05/20/24 21:16	1
Hexachloropropene	<0.300	U *1	0.571	0.300	ug/L		05/20/24 13:29	05/20/24 21:16	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 21:16	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/20/24 21:16	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 21:16	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/20/24 21:16	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/20/24 21:16	1
Methyl parathion	<0.319	U * *1	0.571	0.319	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/20/24 21:16	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/20/24 21:16	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/20/24 21:16	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:16	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:16	1
Phorate	<0.221	U *1	0.571	0.221	ug/L		05/20/24 13:29	05/20/24 21:16	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 21:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-05**

**Lab Sample ID: 860-74297-1**

**Date Collected: 05/14/24 07:35**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:16	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/20/24 21:16	1
Sulfotepp	<0.147	U *1	0.571	0.147	ug/L		05/20/24 13:29	05/20/24 21:16	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/20/24 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	112		35 - 130	05/20/24 13:29	05/20/24 21:16	1
2-Fluorobiphenyl	110		43 - 130	05/20/24 13:29	05/20/24 21:16	1
2-Fluorophenol (Surr)	99		19 - 120	05/20/24 13:29	05/20/24 21:16	1
Nitrobenzene-d5 (Surr)	121		37 - 133	05/20/24 13:29	05/20/24 21:16	1
Phenol-d5 (Surr)	76		8 - 124	05/20/24 13:29	05/20/24 21:16	1
p-Terphenyl-d14	109		47 - 130	05/20/24 13:29	05/20/24 21:16	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	0.653		0.571	0.138	ug/L		05/20/24 13:29	05/28/24 20:22	1

**Client Sample ID: CM-04**

**Lab Sample ID: 860-74297-2**

**Date Collected: 05/14/24 08:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 14:52	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 14:52	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 14:52	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 14:52	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 14:52	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 14:52	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 14:52	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 14:52	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 14:52	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 14:52	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 14:52	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 14:52	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 14:52	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 14:52	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 14:52	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 14:52	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 14:52	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 14:52	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 14:52	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 14:52	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 14:52	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 14:52	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 14:52	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 14:52	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 14:52	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 14:52	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-04**

**Lab Sample ID: 860-74297-2**

Date Collected: 05/14/24 08:00

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Bromodichloromethane</b>	<b>0.864</b>	<b>J</b>	1.00	0.552	ug/L			05/20/24 14:52	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 14:52	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 14:52	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 14:52	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 14:52	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 14:52	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 14:52	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 14:52	1
<b>Chloroform</b>	<b>6.95</b>		1.00	0.464	ug/L			05/20/24 14:52	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 14:52	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 14:52	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 14:52	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 14:52	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 14:52	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 14:52	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 14:52	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 14:52	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 14:52	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 14:52	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 14:52	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 14:52	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 14:52	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 14:52	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 14:52	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 14:52	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 14:52	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 14:52	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 14:52	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 14:52	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 14:52	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 14:52	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 14:52	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 14:52	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 14:52	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 14:52	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 14:52	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 14:52	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 14:52	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 14:52	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 14:52	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 14:52	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/20/24 14:52	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/20/24 14:52	1
Dibromofluoromethane (Surr)	95		75 - 131		05/20/24 14:52	1
Toluene-d8 (Surr)	98		80 - 120		05/20/24 14:52	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-04**

**Lab Sample ID: 860-74297-2**

**Date Collected: 05/14/24 08:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,3-Dichlorobenzene	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/20/24 21:46	1
<b>1,4-Dioxane</b>	<b>0.780</b>		0.571	0.0890	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/20/24 21:46	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/20/24 21:46	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/20/24 21:46	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 13:29	05/20/24 21:46	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 21:46	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/20/24 21:46	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/20/24 21:46	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/20/24 21:46	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/20/24 21:46	1
<b>Benzo[a]pyrene</b>	<b>0.0125</b>	<b>J</b>	0.0571	0.0100	ug/L		05/20/24 13:29	05/20/24 21:46	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/20/24 21:46	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/20/24 21:46	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/20/24 21:46	1
<b>Benzyl alcohol</b>	<b>0.991</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 13:29	05/20/24 21:46	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/20/24 21:46	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/20/24 21:46	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/20/24 21:46	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 21:46	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/20/24 21:46	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/20/24 21:46	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 21:46	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/20/24 21:46	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/20/24 21:46	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/20/24 21:46	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/20/24 21:46	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/20/24 21:46	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/20/24 21:46	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-04**

**Lab Sample ID: 860-74297-2**

**Date Collected: 05/14/24 08:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/20/24 21:46	1
Hexachlorobutadiene	<0.103	U *1	0.571	0.103	ug/L		05/20/24 13:29	05/20/24 21:46	1
Hexachlorocyclopentadiene	<0.0512	U *1	0.571	0.0512	ug/L		05/20/24 13:29	05/20/24 21:46	1
Hexachloroethane	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 21:46	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:46	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 21:46	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/20/24 21:46	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/20/24 21:46	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/20/24 21:46	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/20/24 21:46	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/20/24 21:46	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/20/24 21:46	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/20/24 21:46	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/20/24 21:46	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/20/24 21:46	1
<b>Diphenyl ether</b>	<b>0.230</b>	<b>J</b>	0.571	0.0910	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/20/24 21:46	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/20/24 21:46	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 21:46	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 13:29	05/20/24 21:46	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/20/24 21:46	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/20/24 21:46	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 13:29	05/20/24 21:46	1
3-Methylcholanthrene	<0.104	U *- *1	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 21:46	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/20/24 21:46	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 21:46	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 13:29	05/20/24 21:46	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/20/24 21:46	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 21:46	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 21:46	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 21:46	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 21:46	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 21:46	1
Dimethoate	<0.122	U *1	0.571	0.122	ug/L		05/20/24 13:29	05/20/24 21:46	1
Dinoseb	<0.570	U ** *1	0.571	0.570	ug/L		05/20/24 13:29	05/20/24 21:46	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/20/24 13:29	05/20/24 21:46	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-04**

**Lab Sample ID: 860-74297-2**

**Date Collected: 05/14/24 08:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/20/24 21:46	1
Ethyl Parathion	<0.0502	U *1	0.229	0.0502	ug/L		05/20/24 13:29	05/20/24 21:46	1
Famphur	<0.151	U ** *1	1.14	0.151	ug/L		05/20/24 13:29	05/20/24 21:46	1
Hexachloropropene	<0.300	U *1	0.571	0.300	ug/L		05/20/24 13:29	05/20/24 21:46	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 21:46	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/20/24 21:46	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 21:46	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/20/24 21:46	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/20/24 21:46	1
Methyl parathion	<0.319	U ** *1	0.571	0.319	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/20/24 21:46	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/20/24 21:46	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/20/24 21:46	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:46	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:46	1
Phorate	<0.221	U *1	0.571	0.221	ug/L		05/20/24 13:29	05/20/24 21:46	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 21:46	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 21:46	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/20/24 21:46	1
Sulfotepp	<0.147	U *1	0.571	0.147	ug/L		05/20/24 13:29	05/20/24 21:46	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/20/24 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		35 - 130	05/20/24 13:29	05/20/24 21:46	1
2-Fluorobiphenyl	110		43 - 130	05/20/24 13:29	05/20/24 21:46	1
2-Fluorophenol (Surr)	99		19 - 120	05/20/24 13:29	05/20/24 21:46	1
Nitrobenzene-d5 (Surr)	125		37 - 133	05/20/24 13:29	05/20/24 21:46	1
Phenol-d5 (Surr)	72		8 - 124	05/20/24 13:29	05/20/24 21:46	1
p-Terphenyl-d14	106		47 - 130	05/20/24 13:29	05/20/24 21:46	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.288</b>	<b>J</b>	0.571	0.138	ug/L		05/20/24 13:29	05/23/24 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	151	S1+	35 - 130	05/20/24 13:29	05/23/24 12:20	1
2-Fluorobiphenyl	124		43 - 130	05/20/24 13:29	05/23/24 12:20	1
2-Fluorophenol (Surr)	100		19 - 120	05/20/24 13:29	05/23/24 12:20	1
Nitrobenzene-d5 (Surr)	176	S1+	37 - 133	05/20/24 13:29	05/23/24 12:20	1
Phenol-d5 (Surr)	66		8 - 124	05/20/24 13:29	05/23/24 12:20	1
p-Terphenyl-d14	109		47 - 130	05/20/24 13:29	05/23/24 12:20	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-03**

**Lab Sample ID: 860-74297-3**

**Date Collected: 05/14/24 08:24**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 15:12	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 15:12	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 15:12	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 15:12	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 15:12	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 15:12	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 15:12	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 15:12	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 15:12	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 15:12	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 15:12	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 15:12	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 15:12	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 15:12	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 15:12	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 15:12	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 15:12	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 15:12	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 15:12	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 15:12	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 15:12	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 15:12	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 15:12	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 15:12	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 15:12	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 15:12	1
<b>Bromodichloromethane</b>	<b>0.928</b>	<b>J</b>	1.00	0.552	ug/L			05/20/24 15:12	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 15:12	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 15:12	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 15:12	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 15:12	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 15:12	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 15:12	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 15:12	1
<b>Chloroform</b>	<b>7.02</b>		1.00	0.464	ug/L			05/20/24 15:12	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 15:12	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 15:12	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 15:12	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 15:12	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 15:12	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 15:12	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 15:12	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 15:12	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 15:12	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 15:12	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 15:12	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 15:12	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 15:12	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-03**

**Lab Sample ID: 860-74297-3**

**Date Collected: 05/14/24 08:24**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 15:12	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 15:12	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 15:12	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 15:12	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 15:12	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 15:12	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 15:12	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 15:12	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 15:12	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 15:12	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 15:12	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 15:12	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 15:12	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 15:12	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 15:12	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 15:12	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 15:12	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 15:12	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 15:12	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/20/24 15:12	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/20/24 15:12	1
Dibromofluoromethane (Surr)	98		75 - 131		05/20/24 15:12	1
Toluene-d8 (Surr)	98		80 - 120		05/20/24 15:12	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,3-Dichlorobenzene	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/20/24 22:16	1
<b>1,4-Dioxane</b>	<b>0.310</b>	<b>J I</b>	0.571	0.0890	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/20/24 22:16	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/20/24 22:16	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/20/24 22:16	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/20/24 22:16	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-03**

**Lab Sample ID: 860-74297-3**

Date Collected: 05/14/24 08:24

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 22:16	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 22:16	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 22:16	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/20/24 22:16	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 13:29	05/20/24 22:16	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 22:16	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/20/24 22:16	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/20/24 22:16	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/20/24 22:16	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/20/24 22:16	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 13:29	05/20/24 22:16	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/20/24 22:16	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/20/24 22:16	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/20/24 22:16	1
<b>Benzyl alcohol</b>	<b>0.914</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 13:29	05/20/24 22:16	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/20/24 22:16	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/20/24 22:16	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/20/24 22:16	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 22:16	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/20/24 22:16	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/20/24 22:16	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 22:16	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/20/24 22:16	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/20/24 22:16	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/20/24 22:16	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/20/24 22:16	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/20/24 22:16	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/20/24 22:16	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/20/24 22:16	1
Hexachlorobutadiene	<0.103	U *1	0.571	0.103	ug/L		05/20/24 13:29	05/20/24 22:16	1
Hexachlorocyclopentadiene	<0.0512	U *1	0.571	0.0512	ug/L		05/20/24 13:29	05/20/24 22:16	1
Hexachloroethane	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 22:16	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 22:16	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 22:16	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/20/24 22:16	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/20/24 22:16	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/20/24 22:16	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/20/24 22:16	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/20/24 22:16	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/20/24 22:16	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/20/24 22:16	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/20/24 22:16	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/20/24 22:16	1
<b>Diphenyl ether</b>	<b>0.367</b>	<b>J</b>	0.571	0.0910	ug/L		05/20/24 13:29	05/20/24 22:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-03**

**Lab Sample ID: 860-74297-3**

Date Collected: 05/14/24 08:24

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/20/24 22:16	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/20/24 22:16	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/20/24 22:16	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 22:16	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 13:29	05/20/24 22:16	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/20/24 22:16	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/20/24 22:16	1
3,3'-Dimethylbenzidine	<0.142	U * *1	0.571	0.142	ug/L		05/20/24 13:29	05/20/24 22:16	1
3-Methylcholanthrene	<0.104	U * *1	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 22:16	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/20/24 22:16	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 22:16	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/20/24 13:29	05/20/24 22:16	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/20/24 22:16	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 22:16	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 22:16	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 22:16	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 22:16	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 22:16	1
Dimethoate	<0.122	U *1	0.571	0.122	ug/L		05/20/24 13:29	05/20/24 22:16	1
Dinoseb	<0.570	U * *1	0.571	0.570	ug/L		05/20/24 13:29	05/20/24 22:16	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/20/24 13:29	05/20/24 22:16	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/20/24 22:16	1
Ethyl Parathion	<0.0502	U *1	0.229	0.0502	ug/L		05/20/24 13:29	05/20/24 22:16	1
Famphur	<0.151	U * *1	1.14	0.151	ug/L		05/20/24 13:29	05/20/24 22:16	1
Hexachloropropene	<0.300	U *1	0.571	0.300	ug/L		05/20/24 13:29	05/20/24 22:16	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 22:16	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/20/24 22:16	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 22:16	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/20/24 22:16	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/20/24 22:16	1
Methyl parathion	<0.319	U * *1	0.571	0.319	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosodimethylamine	<0.100	U *	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/20/24 22:16	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/20/24 22:16	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/20/24 22:16	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 22:16	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 22:16	1
Phorate	<0.221	U *1	0.571	0.221	ug/L		05/20/24 13:29	05/20/24 22:16	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 22:16	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-03**

**Lab Sample ID: 860-74297-3**

**Date Collected: 05/14/24 08:24**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 22:16	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/20/24 22:16	1
Sulfotepp	<0.147	U *1	0.571	0.147	ug/L		05/20/24 13:29	05/20/24 22:16	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/20/24 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		35 - 130	05/20/24 13:29	05/20/24 22:16	1
2-Fluorobiphenyl	113		43 - 130	05/20/24 13:29	05/20/24 22:16	1
2-Fluorophenol (Surr)	93		19 - 120	05/20/24 13:29	05/20/24 22:16	1
Nitrobenzene-d5 (Surr)	119		37 - 133	05/20/24 13:29	05/20/24 22:16	1
Phenol-d5 (Surr)	67		8 - 124	05/20/24 13:29	05/20/24 22:16	1
p-Terphenyl-d14	100		47 - 130	05/20/24 13:29	05/20/24 22:16	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RE**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.325</b>	<b>J</b>	0.571	0.138	ug/L		05/20/24 13:29	05/23/24 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	167	S1+	35 - 130	05/20/24 13:29	05/23/24 12:49	1
2-Fluorobiphenyl	125		43 - 130	05/20/24 13:29	05/23/24 12:49	1
2-Fluorophenol (Surr)	94		19 - 120	05/20/24 13:29	05/23/24 12:49	1
Nitrobenzene-d5 (Surr)	174	S1+	37 - 133	05/20/24 13:29	05/23/24 12:49	1
Phenol-d5 (Surr)	62		8 - 124	05/20/24 13:29	05/23/24 12:49	1
p-Terphenyl-d14	97		47 - 130	05/20/24 13:29	05/23/24 12:49	1

**Client Sample ID: CM-02**

**Lab Sample ID: 860-74297-4**

**Date Collected: 05/14/24 08:46**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 17:26	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 17:26	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 17:26	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 17:26	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 17:26	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 17:26	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 17:26	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 17:26	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 17:26	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 17:26	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 17:26	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 17:26	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 17:26	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 17:26	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 17:26	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 17:26	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 17:26	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 17:26	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 17:26	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-02**

**Lab Sample ID: 860-74297-4**

**Date Collected: 05/14/24 08:46**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 17:26	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 17:26	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 17:26	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 17:26	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 17:26	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 17:26	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 17:26	1
<b>Bromodichloromethane</b>	<b>0.855</b>	<b>J</b>	1.00	0.552	ug/L			05/20/24 17:26	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 17:26	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 17:26	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 17:26	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 17:26	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 17:26	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 17:26	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 17:26	1
<b>Chloroform</b>	<b>5.79</b>		1.00	0.464	ug/L			05/20/24 17:26	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 17:26	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 17:26	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 17:26	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 17:26	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 17:26	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 17:26	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 17:26	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 17:26	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 17:26	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 17:26	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 17:26	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 17:26	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 17:26	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 17:26	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 17:26	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 17:26	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 17:26	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 17:26	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 17:26	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 17:26	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 17:26	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 17:26	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 17:26	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 17:26	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 17:26	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 17:26	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 17:26	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 17:26	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 17:26	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 17:26	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 17:26	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 17:26	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 17:26	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-02**

**Lab Sample ID: 860-74297-4**

**Date Collected: 05/14/24 08:46**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/20/24 17:26	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/20/24 17:26	1
Dibromofluoromethane (Surr)	96		75 - 131		05/20/24 17:26	1
Toluene-d8 (Surr)	98		80 - 120		05/20/24 17:26	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,3-Dichlorobenzene	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/21/24 11:10	1
<b>1,4-Dioxane</b>	<b>0.422</b>	<b>J</b>	0.571	0.0890	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/21/24 11:10	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/21/24 11:10	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/21/24 11:10	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 13:29	05/21/24 11:10	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 11:10	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/21/24 11:10	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/21/24 11:10	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/21/24 11:10	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/21/24 11:10	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 13:29	05/21/24 11:10	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/21/24 11:10	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/21/24 11:10	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/21/24 11:10	1
<b>Benzyl alcohol</b>	<b>1.06</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 13:29	05/21/24 11:10	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/21/24 11:10	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/21/24 11:10	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/21/24 11:10	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/21/24 11:10	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/21/24 11:10	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/21/24 11:10	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 11:10	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-02**

**Lab Sample ID: 860-74297-4**

Date Collected: 05/14/24 08:46

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/21/24 11:10	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/21/24 11:10	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/21/24 11:10	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/21/24 11:10	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/21/24 11:10	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/21/24 11:10	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/21/24 11:10	1
Hexachlorobutadiene	<0.103	U *1	0.571	0.103	ug/L		05/20/24 13:29	05/21/24 11:10	1
Hexachlorocyclopentadiene	<0.0512	U *1	0.571	0.0512	ug/L		05/20/24 13:29	05/21/24 11:10	1
Hexachloroethane	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/21/24 11:10	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 11:10	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 11:10	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/21/24 11:10	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/21/24 11:10	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/21/24 11:10	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/21/24 11:10	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/21/24 11:10	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/21/24 11:10	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/21/24 11:10	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/21/24 11:10	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/21/24 11:10	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/21/24 11:10	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/21/24 11:10	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 13:29	05/21/24 11:10	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 13:29	05/21/24 11:10	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/21/24 11:10	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/21/24 11:10	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 13:29	05/21/24 11:10	1
3-Methylcholanthrene	<0.104	U *- *1	0.571	0.104	ug/L		05/20/24 13:29	05/21/24 11:10	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/21/24 11:10	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 11:10	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 13:29	05/21/24 11:10	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/21/24 11:10	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/21/24 11:10	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/21/24 11:10	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-02**

**Date Collected: 05/14/24 08:46**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74297-4**

**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/21/24 11:10	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/21/24 11:10	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/21/24 11:10	1
Dimethoate	<0.122	U *1	0.571	0.122	ug/L		05/20/24 13:29	05/21/24 11:10	1
Dinoseb	<0.570	U *+ *1	0.571	0.570	ug/L		05/20/24 13:29	05/21/24 11:10	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/20/24 13:29	05/21/24 11:10	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/21/24 11:10	1
Ethyl Parathion	<0.0502	U *1	0.229	0.0502	ug/L		05/20/24 13:29	05/21/24 11:10	1
Famphur	<0.151	U *+ *1	1.14	0.151	ug/L		05/20/24 13:29	05/21/24 11:10	1
Hexachloropropene	<0.300	U *1	0.571	0.300	ug/L		05/20/24 13:29	05/21/24 11:10	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 11:10	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/21/24 11:10	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 11:10	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/21/24 11:10	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/21/24 11:10	1
Methyl parathion	<0.319	U *+ *1	0.571	0.319	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/21/24 11:10	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/21/24 11:10	1
o,o',o"-Triethylphosphorothioate	<0.138	U *1	0.571	0.138	ug/L		05/20/24 13:29	05/21/24 11:10	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/21/24 11:10	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 11:10	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 11:10	1
Phorate	<0.221	U *1	0.571	0.221	ug/L		05/20/24 13:29	05/21/24 11:10	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 13:29	05/21/24 11:10	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 11:10	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/21/24 11:10	1
Sulfotepp	<0.147	U *1	0.571	0.147	ug/L		05/20/24 13:29	05/21/24 11:10	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/21/24 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		35 - 130	05/20/24 13:29	05/21/24 11:10	1
2-Fluorobiphenyl	109		43 - 130	05/20/24 13:29	05/21/24 11:10	1
2-Fluorophenol (Surr)	89		19 - 120	05/20/24 13:29	05/21/24 11:10	1
Nitrobenzene-d5 (Surr)	116		37 - 133	05/20/24 13:29	05/21/24 11:10	1
Phenol-d5 (Surr)	66		8 - 124	05/20/24 13:29	05/21/24 11:10	1
p-Terphenyl-d14	89		47 - 130	05/20/24 13:29	05/21/24 11:10	1

**Client Sample ID: CM-01**

**Date Collected: 05/14/24 09:10**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74297-5**

**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 17:46	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 17:46	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 17:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-01**

**Lab Sample ID: 860-74297-5**

**Date Collected: 05/14/24 09:10**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 17:46	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 17:46	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 17:46	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 17:46	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 17:46	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 17:46	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 17:46	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 17:46	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 17:46	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 17:46	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 17:46	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 17:46	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 17:46	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 17:46	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 17:46	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 17:46	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 17:46	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 17:46	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 17:46	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 17:46	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 17:46	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 17:46	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 17:46	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 17:46	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/20/24 17:46	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 17:46	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 17:46	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 17:46	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 17:46	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 17:46	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 17:46	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 17:46	1
<b>Chloroform</b>	<b>4.33</b>		1.00	0.464	ug/L			05/20/24 17:46	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 17:46	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 17:46	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 17:46	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 17:46	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 17:46	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 17:46	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 17:46	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 17:46	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 17:46	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 17:46	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 17:46	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 17:46	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 17:46	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 17:46	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 17:46	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 17:46	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-01**

**Lab Sample ID: 860-74297-5**

Date Collected: 05/14/24 09:10

Matrix: Water

Date Received: 05/15/24 09:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 17:46	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 17:46	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 17:46	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 17:46	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 17:46	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 17:46	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 17:46	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 17:46	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 17:46	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 17:46	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 17:46	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 17:46	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 17:46	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 17:46	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 17:46	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 17:46	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/20/24 17:46	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/20/24 17:46	1
Dibromofluoromethane (Surr)	97		75 - 131		05/20/24 17:46	1
Toluene-d8 (Surr)	99		80 - 120		05/20/24 17:46	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,3-Dichlorobenzene	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/21/24 09:11	1
<b>1,4-Dioxane</b>	<b>0.769</b>		0.571	0.0890	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/21/24 09:11	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/21/24 09:11	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/21/24 09:11	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/21/24 09:11	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:11	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/21/24 09:11	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/21/24 09:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-01**

**Lab Sample ID: 860-74297-5**

**Date Collected: 05/14/24 09:10**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/21/24 09:11	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 13:29	05/21/24 09:11	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 09:11	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/21/24 09:11	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/21/24 09:11	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/21/24 09:11	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/21/24 09:11	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 13:29	05/21/24 09:11	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/21/24 09:11	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/21/24 09:11	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/21/24 09:11	1
<b>Benzyl alcohol</b>	<b>1.05</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 13:29	05/21/24 09:11	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/21/24 09:11	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/21/24 09:11	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/21/24 09:11	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/21/24 09:11	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/21/24 09:11	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/21/24 09:11	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 09:11	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/21/24 09:11	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/21/24 09:11	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/21/24 09:11	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/21/24 09:11	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/21/24 09:11	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/21/24 09:11	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/21/24 09:11	1
Hexachlorobutadiene	<0.103	U *1	0.571	0.103	ug/L		05/20/24 13:29	05/21/24 09:11	1
Hexachlorocyclopentadiene	<0.0512	U *1	0.571	0.0512	ug/L		05/20/24 13:29	05/21/24 09:11	1
Hexachloroethane	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/21/24 09:11	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:11	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 09:11	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/21/24 09:11	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/21/24 09:11	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/21/24 09:11	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/21/24 09:11	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/21/24 09:11	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/21/24 09:11	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/21/24 09:11	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/21/24 09:11	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/21/24 09:11	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/21/24 09:11	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/21/24 09:11	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-01**

**Lab Sample ID: 860-74297-5**

**Date Collected: 05/14/24 09:10**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/21/24 09:11	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/21/24 09:11	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 13:29	05/21/24 09:11	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 13:29	05/21/24 09:11	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/21/24 09:11	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/21/24 09:11	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 13:29	05/21/24 09:11	1
3-Methylcholanthrene	<0.104	U *- *1	0.571	0.104	ug/L		05/20/24 13:29	05/21/24 09:11	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/21/24 09:11	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 09:11	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 13:29	05/21/24 09:11	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/21/24 09:11	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/21/24 09:11	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/21/24 09:11	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/21/24 09:11	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/21/24 09:11	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/21/24 09:11	1
Dimethoate	<0.122	U *1	0.571	0.122	ug/L		05/20/24 13:29	05/21/24 09:11	1
Dinoseb	<0.570	U ** *1	0.571	0.570	ug/L		05/20/24 13:29	05/21/24 09:11	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/20/24 13:29	05/21/24 09:11	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/21/24 09:11	1
Ethyl Parathion	<0.0502	U *1	0.229	0.0502	ug/L		05/20/24 13:29	05/21/24 09:11	1
Famphur	<0.151	U ** *1	1.14	0.151	ug/L		05/20/24 13:29	05/21/24 09:11	1
Hexachloropropene	<0.300	U *1	0.571	0.300	ug/L		05/20/24 13:29	05/21/24 09:11	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 09:11	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/21/24 09:11	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 09:11	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/21/24 09:11	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/21/24 09:11	1
Methyl parathion	<0.319	U ** *1	0.571	0.319	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/21/24 09:11	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/21/24 09:11	1
o,o',o"-Triethylphosphorothioate	<0.138	U *1	0.571	0.138	ug/L		05/20/24 13:29	05/21/24 09:11	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/21/24 09:11	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:11	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:11	1
Phorate	<0.221	U *1	0.571	0.221	ug/L		05/20/24 13:29	05/21/24 09:11	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 13:29	05/21/24 09:11	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:11	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/21/24 09:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-01**

**Lab Sample ID: 860-74297-5**

Date Collected: 05/14/24 09:10

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	<0.147	U *1	0.571	0.147	ug/L		05/20/24 13:29	05/21/24 09:11	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/21/24 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	108		35 - 130	05/20/24 13:29	05/21/24 09:11	1
2-Fluorobiphenyl	103		43 - 130	05/20/24 13:29	05/21/24 09:11	1
2-Fluorophenol (Surr)	88		19 - 120	05/20/24 13:29	05/21/24 09:11	1
Nitrobenzene-d5 (Surr)	116		37 - 133	05/20/24 13:29	05/21/24 09:11	1
Phenol-d5 (Surr)	65		8 - 124	05/20/24 13:29	05/21/24 09:11	1
p-Terphenyl-d14	83		47 - 130	05/20/24 13:29	05/21/24 09:11	1

**Client Sample ID: CM-00**

**Lab Sample ID: 860-74297-6**

Date Collected: 05/14/24 09:45

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 18:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 18:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 18:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 18:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 18:07	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 18:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 18:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 18:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 18:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 18:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 18:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 18:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 18:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 18:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 18:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 18:07	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 18:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 18:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 18:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 18:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 18:07	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 18:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 18:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 18:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 18:07	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 18:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 18:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/20/24 18:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 18:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 18:07	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 18:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 18:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 18:07	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-00**

**Lab Sample ID: 860-74297-6**

Date Collected: 05/14/24 09:45

Matrix: Water

Date Received: 05/15/24 09:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 18:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 18:07	1
<b>Chloroform</b>	<b>1.75</b>		1.00	0.464	ug/L			05/20/24 18:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 18:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 18:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 18:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 18:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 18:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 18:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 18:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 18:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 18:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 18:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 18:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 18:07	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 18:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 18:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 18:07	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 18:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 18:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 18:07	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 18:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 18:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 18:07	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 18:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 18:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 18:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 18:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 18:07	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 18:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 18:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 18:07	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 18:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 18:07	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 18:07	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/20/24 18:07	1
4-Bromofluorobenzene (Surr)	96		74 - 124		05/20/24 18:07	1
Dibromofluoromethane (Surr)	96		75 - 131		05/20/24 18:07	1
Toluene-d8 (Surr)	98		80 - 120		05/20/24 18:07	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,3-Dichlorobenzene	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/21/24 09:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-00**

**Lab Sample ID: 860-74297-6**

Date Collected: 05/14/24 09:45

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/21/24 09:40	1
<b>1,4-Dioxane</b>	<b>0.113</b>	<b>J I</b>	0.571	0.0890	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/21/24 09:40	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/21/24 09:40	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/21/24 09:40	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/20/24 13:29	05/21/24 09:40	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 09:40	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/21/24 09:40	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/21/24 09:40	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/21/24 09:40	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/21/24 09:40	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 13:29	05/21/24 09:40	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/21/24 09:40	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/21/24 09:40	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/21/24 09:40	1
<b>Benzyl alcohol</b>	<b>0.984</b>	<b>J B</b>	1.14	0.600	ug/L		05/20/24 13:29	05/21/24 09:40	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/21/24 09:40	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/21/24 09:40	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/21/24 09:40	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/21/24 09:40	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/21/24 09:40	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/21/24 09:40	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 09:40	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/21/24 09:40	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/21/24 09:40	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/21/24 09:40	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/21/24 09:40	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/21/24 09:40	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/21/24 09:40	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/21/24 09:40	1
Hexachlorobutadiene	<0.103	U *1	0.571	0.103	ug/L		05/20/24 13:29	05/21/24 09:40	1
Hexachlorocyclopentadiene	<0.0512	U *1	0.571	0.0512	ug/L		05/20/24 13:29	05/21/24 09:40	1
Hexachloroethane	<0.102	U *1	0.571	0.102	ug/L		05/20/24 13:29	05/21/24 09:40	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:40	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-00**

**Lab Sample ID: 860-74297-6**

Date Collected: 05/14/24 09:45

Matrix: Water

Date Received: 05/15/24 09:30

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/21/24 09:40	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/21/24 09:40	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/21/24 09:40	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/21/24 09:40	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/21/24 09:40	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/21/24 09:40	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/21/24 09:40	1
Pyridine	<1.44	U *1	2.86	1.44	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitro-o-toluidine	<0.520	U *-	1.14	0.520	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/21/24 09:40	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/21/24 09:40	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/21/24 09:40	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/21/24 09:40	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/21/24 09:40	1
1-Naphthylamine	<0.149	U *-	0.571	0.149	ug/L		05/20/24 13:29	05/21/24 09:40	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Picoline	<0.123	U *1	0.571	0.123	ug/L		05/20/24 13:29	05/21/24 09:40	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/21/24 09:40	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/21/24 09:40	1
3,3'-Dimethylbenzidine	<0.142	U *- *1	0.571	0.142	ug/L		05/20/24 13:29	05/21/24 09:40	1
3-Methylcholanthrene	<0.104	U *- *1	0.571	0.104	ug/L		05/20/24 13:29	05/21/24 09:40	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/21/24 09:40	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 09:40	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *-	5.71	3.67	ug/L		05/20/24 13:29	05/21/24 09:40	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/21/24 09:40	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/21/24 09:40	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/21/24 09:40	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/21/24 09:40	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/21/24 09:40	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/21/24 09:40	1
Dimethoate	<0.122	U *1	0.571	0.122	ug/L		05/20/24 13:29	05/21/24 09:40	1
Dinoseb	<0.570	U *+ *1	0.571	0.570	ug/L		05/20/24 13:29	05/21/24 09:40	1
Disulfoton	<0.203	U *1	0.571	0.203	ug/L		05/20/24 13:29	05/21/24 09:40	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/21/24 09:40	1
Ethyl Parathion	<0.0502	U *1	0.229	0.0502	ug/L		05/20/24 13:29	05/21/24 09:40	1
Famphur	<0.151	U *+ *1	1.14	0.151	ug/L		05/20/24 13:29	05/21/24 09:40	1
Hexachloropropene	<0.300	U *1	0.571	0.300	ug/L		05/20/24 13:29	05/21/24 09:40	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 09:40	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-00**

**Lab Sample ID: 860-74297-6**

**Date Collected: 05/14/24 09:45**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/21/24 09:40	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/21/24 09:40	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/21/24 09:40	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/21/24 09:40	1
Methyl parathion	<0.319	U *+ *1	0.571	0.319	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosodimethylamine	<0.100	U *-	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/21/24 09:40	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/21/24 09:40	1
o,o',o"-Triethylphosphorothioate	<0.138	U *1	0.571	0.138	ug/L		05/20/24 13:29	05/21/24 09:40	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/21/24 09:40	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:40	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:40	1
Phorate	<0.221	U *1	0.571	0.221	ug/L		05/20/24 13:29	05/21/24 09:40	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/20/24 13:29	05/21/24 09:40	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/21/24 09:40	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/21/24 09:40	1
Sulfotepp	<0.147	U *1	0.571	0.147	ug/L		05/20/24 13:29	05/21/24 09:40	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/21/24 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	165	S1+	35 - 130	05/20/24 13:29	05/21/24 09:40	1
2-Fluorobiphenyl	156	S1+	43 - 130	05/20/24 13:29	05/21/24 09:40	1
2-Fluorophenol (Surr)	129	S1+	19 - 120	05/20/24 13:29	05/21/24 09:40	1
Nitrobenzene-d5 (Surr)	168	S1+	37 - 133	05/20/24 13:29	05/21/24 09:40	1
Phenol-d5 (Surr)	98		8 - 124	05/20/24 13:29	05/21/24 09:40	1
p-Terphenyl-d14	122		47 - 130	05/20/24 13:29	05/21/24 09:40	1

**Client Sample ID: TB-08 (051424)**

**Lab Sample ID: 860-74297-7**

**Date Collected: 05/14/24 00:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 11:47	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 11:47	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 11:47	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 11:47	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 11:47	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 11:47	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 11:47	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 11:47	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 11:47	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 11:47	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 11:47	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 11:47	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 11:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: TB-08 (051424)**

**Lab Sample ID: 860-74297-7**

**Date Collected: 05/14/24 00:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 11:47	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 11:47	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 11:47	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 11:47	1
<b>2-Propanol</b>	<b>79.2</b>		10.0	5.23	ug/L			05/20/24 11:47	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 11:47	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 11:47	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 11:47	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 11:47	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 11:47	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 11:47	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 11:47	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 11:47	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/20/24 11:47	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 11:47	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 11:47	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 11:47	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 11:47	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 11:47	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 11:47	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 11:47	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/20/24 11:47	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 11:47	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 11:47	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 11:47	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 11:47	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 11:47	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 11:47	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 11:47	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 11:47	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 11:47	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 11:47	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 11:47	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 11:47	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 11:47	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 11:47	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 11:47	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 11:47	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 11:47	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 11:47	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 11:47	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 11:47	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 11:47	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 11:47	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 11:47	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 11:47	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 11:47	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 11:47	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 11:47	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: TB-08 (051424)**

**Lab Sample ID: 860-74297-7**

**Date Collected: 05/14/24 00:00**

**Matrix: Water**

**Date Received: 05/15/24 09:30**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 11:47	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 11:47	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 11:47	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 11:47	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 11:47	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/20/24 11:47	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/20/24 11:47	1
Dibromofluoromethane (Surr)	94		75 - 131		05/20/24 11:47	1
Toluene-d8 (Surr)	99		80 - 120		05/20/24 11:47	1

# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-74297-1	CM-05	99	96	96	99
860-74297-2	CM-04	98	98	95	98
860-74297-3	CM-03	99	97	98	98
860-74297-4	CM-02	100	97	96	98
860-74297-5	CM-01	99	97	97	99
860-74297-6	CM-00	98	96	96	98
860-74297-7	TB-08 (051424)	98	98	94	99
860-74454-F-3 MS	Matrix Spike	92	99	97	99
LCS 860-161114/3	Lab Control Sample	94	97	96	98
LCSD 860-161114/4	Lab Control Sample Dup	93	100	97	99
MB 860-161114/9	Method Blank	96	101	94	99

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74297-1	CM-05	112	110	99	121	76	109
860-74297-2	CM-04	110	110	99	125	72	106
860-74297-2 - RE	CM-04	151 S1+	124	100	176 S1+	66	109
860-74297-3	CM-03	103	113	93	119	67	100
860-74297-3 - RE	CM-03	167 S1+	125	94	174 S1+	62	97
860-74297-4	CM-02	106	109	89	116	66	89
860-74297-5	CM-01	108	103	88	116	65	83
860-74297-6	CM-00	165 S1+	156 S1+	129 S1+	168 S1+	98	122
LCS 860-161236/2-A	Lab Control Sample	119	120	84	126	61	112
LCS 860-161236/4-A	Lab Control Sample	109	118	78	126	59	113
LCSD 860-161236/3-A	Lab Control Sample Dup	120	115	85	124	63	107
LCSD 860-161236/5-A	Lab Control Sample Dup	112	124	90	137 S1+	69	119
MB 860-161236/1-A	Method Blank	109	122	89	133	63	113

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)  
FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)  
PHL = Phenol-d5 (Surr)  
TPHd14 = p-Terphenyl-d14

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-161114/9**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/20/24 11:06	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/20/24 11:06	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/20/24 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/20/24 11:06	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/20/24 11:06	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/20/24 11:06	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/20/24 11:06	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/20/24 11:06	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/20/24 11:06	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/20/24 11:06	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/20/24 11:06	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/20/24 11:06	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/20/24 11:06	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/20/24 11:06	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/20/24 11:06	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/20/24 11:06	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/20/24 11:06	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/20/24 11:06	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/20/24 11:06	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/20/24 11:06	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/20/24 11:06	1
Acetone	<3.07	U	100	3.07	ug/L			05/20/24 11:06	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/20/24 11:06	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/20/24 11:06	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/20/24 11:06	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/20/24 11:06	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/20/24 11:06	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/20/24 11:06	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/20/24 11:06	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/20/24 11:06	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/20/24 11:06	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/20/24 11:06	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/20/24 11:06	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/20/24 11:06	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/20/24 11:06	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/20/24 11:06	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/20/24 11:06	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/20/24 11:06	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/20/24 11:06	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/20/24 11:06	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/20/24 11:06	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/20/24 11:06	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/20/24 11:06	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/20/24 11:06	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/20/24 11:06	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/20/24 11:06	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/20/24 11:06	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/20/24 11:06	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-161114/9**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/20/24 11:06	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/20/24 11:06	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/20/24 11:06	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/20/24 11:06	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/20/24 11:06	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/20/24 11:06	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/20/24 11:06	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/20/24 11:06	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/20/24 11:06	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/20/24 11:06	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/20/24 11:06	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/20/24 11:06	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/20/24 11:06	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/20/24 11:06	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/20/24 11:06	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/20/24 11:06	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/20/24 11:06	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/20/24 11:06	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/20/24 11:06	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/20/24 11:06	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/20/24 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		05/20/24 11:06	1
4-Bromofluorobenzene (Surr)	101		74 - 124		05/20/24 11:06	1
Dibromofluoromethane (Surr)	94		75 - 131		05/20/24 11:06	1
Toluene-d8 (Surr)	99		80 - 120		05/20/24 11:06	1

**Lab Sample ID: LCS 860-161114/3**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.08		ug/L		106	72 - 125
1,1,1-Trichloroethane	50.0	50.60		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.25		ug/L		98	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.05		ug/L		104	60 - 140
1,1,2-Trichloroethane	50.0	50.37		ug/L		101	75 - 130
1,1-Dichloroethane	50.0	49.60		ug/L		99	71 - 130
1,1-Dichloroethene	50.0	49.56		ug/L		99	50 - 150
1,2,3-Trichloropropane	50.0	49.59		ug/L		99	75 - 125
1,2,4-Trimethylbenzene	50.0	53.82		ug/L		108	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	53.73		ug/L		107	59 - 125
1,2-Dibromoethane	50.0	51.00		ug/L		102	73 - 125
1,2-Dichloroethane	50.0	48.36		ug/L		97	72 - 130
1,2-Dichloropropane	50.0	50.63		ug/L		101	74 - 125
1,3,5-Trimethylbenzene	50.0	52.36		ug/L		105	60 - 140
1,3-Butadiene	50.0	48.09		ug/L		96	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161114/3**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	51.19		ug/L		102	70 - 130
2-Butanone (MEK)	250	236.2		ug/L		94	60 - 140
2-Hexanone (MBK)	250	245.3		ug/L		98	60 - 140
2-Propanol	500	439.2		ug/L		88	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	49.62		ug/L		99	70 - 130
4-Methyl-2-pentanone	250	242.2		ug/L		97	60 - 140
Acetone	250	238.8		ug/L		96	60 - 140
Acetonitrile	500	439.4		ug/L		88	60 - 140
Acrolein	250	193.2		ug/L		77	60 - 140
Acrylonitrile	500	466.8		ug/L		93	60 - 140
alpha-Chlorotoluene	50.0	56.24		ug/L		112	75 - 125
Benzene	50.0	51.16		ug/L		102	75 - 125
Bromodichloromethane	50.0	51.70		ug/L		103	75 - 125
Bromoform	50.0	51.78		ug/L		104	70 - 130
Bromomethane	50.0	48.18		ug/L		96	60 - 140
Carbon disulfide	50.0	47.04		ug/L		94	60 - 140
Carbon tetrachloride	50.0	50.45		ug/L		101	70 - 125
Chlorobenzene	50.0	51.19		ug/L		102	82 - 135
Chlorodibromomethane	50.0	50.71		ug/L		101	73 - 125
Chloroethane	50.0	48.59		ug/L		97	60 - 140
Chloroform	50.0	48.52		ug/L		97	70 - 121
Chloromethane	50.0	45.00		ug/L		90	60 - 140
Chloroprene	50.0	49.85		ug/L		100	70 - 130
cis-1,2-Dichloroethene	50.0	49.34		ug/L		99	75 - 125
cis-1,3-Dichloropropene	50.0	51.46		ug/L		103	74 - 125
Cumene (isopropylbenzene)	50.0	54.45		ug/L		109	75 - 125
Cyclohexane	50.0	50.78		ug/L		102	70 - 130
Dibromomethane	50.0	50.65		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	46.10		ug/L		92	50 - 150
Ethyl methacrylate	50.0	52.30		ug/L		105	70 - 130
Ethylbenzene	50.0	53.00		ug/L		106	75 - 125
Hexane	50.0	50.14		ug/L		100	72 - 125
Iodomethane	50.0	46.82		ug/L		94	75 - 125
Isobutanol	1240	1261		ug/L		102	60 - 140
Methacrylonitrile	500	468.3		ug/L		94	70 - 130
Methyl methacrylate	100	106.9		ug/L		107	70 - 130
Methyl tert-butyl ether	50.0	47.88		ug/L		96	65 - 135
Methylene Chloride	50.0	45.70		ug/L		91	71 - 125
Propionitrile	500	483.4		ug/L		97	70 - 130
Propylbenzene	50.0	52.91		ug/L		106	75 - 125
Styrene	50.0	54.18		ug/L		108	75 - 125
Tetrachloroethene	50.0	53.59		ug/L		107	71 - 125
Tetrahydrofuran	100	97.51		ug/L		98	75 - 125
Toluene	50.0	51.25		ug/L		102	75 - 130
trans-1,2-Dichloroethene	50.0	50.14		ug/L		100	75 - 125
trans-1,3-Dichloropropene	50.0	52.59		ug/L		105	66 - 125
trans-1,4-Dichloro-2-butene	50.0	48.80		ug/L		98	70 - 130
Trichloroethene	50.0	53.09		ug/L		106	75 - 135
Trichlorofluoromethane	50.0	50.92		ug/L		102	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161114/3**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	245.5		ug/L		98	60 - 140
Vinyl chloride	50.0	48.91		ug/L		98	60 - 140
Xylenes, Total	100	105.8		ug/L		106	75 - 125
m,p-Xylenes	0.0500	0.05276		mg/L		106	75 - 125
o-Xylene	0.0500	0.05308		mg/L		106	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: LCSD 860-161114/4**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.35		ug/L		107	72 - 125	1	25
1,1,1-Trichloroethane	50.0	50.41		ug/L		101	70 - 130	0	25
1,1,2,2-Tetrachloroethane	50.0	50.44		ug/L		101	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.36		ug/L		103	60 - 140	1	25
1,1,2-Trichloroethane	50.0	51.22		ug/L		102	75 - 130	2	25
1,1-Dichloroethane	50.0	48.35		ug/L		97	71 - 130	3	25
1,1-Dichloroethene	50.0	49.06		ug/L		98	50 - 150	1	25
1,2,3-Trichloropropane	50.0	51.05		ug/L		102	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	53.98		ug/L		108	75 - 125	0	25
1,2-Dibromo-3-Chloropropane	50.0	54.39		ug/L		109	59 - 125	1	25
1,2-Dibromoethane	50.0	52.56		ug/L		105	73 - 125	3	25
1,2-Dichloroethane	50.0	47.56		ug/L		95	72 - 130	2	25
1,2-Dichloropropane	50.0	49.94		ug/L		100	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	52.05		ug/L		104	60 - 140	1	25
1,3-Butadiene	50.0	47.41		ug/L		95	60 - 150	1	25
2,2,4-Trimethylpentane	50.0	49.82		ug/L		100	70 - 130	3	25
2-Butanone (MEK)	250	241.4		ug/L		97	60 - 140	2	25
2-Hexanone (MBK)	250	250.7		ug/L		100	60 - 140	2	25
2-Propanol	500	448.7		ug/L		90	70 - 120	2	25
3-Chloropropene (Allyl Chloride)	50.0	50.46		ug/L		101	70 - 130	2	25
4-Methyl-2-pentanone	250	243.6		ug/L		97	60 - 140	1	25
Acetone	250	247.8		ug/L		99	60 - 140	4	25
Acetonitrile	500	458.2		ug/L		92	60 - 140	4	25
Acrolein	250	197.5		ug/L		79	60 - 140	2	25
Acrylonitrile	500	476.8		ug/L		95	60 - 140	2	25
alpha-Chlorotoluene	50.0	57.90		ug/L		116	75 - 125	3	25
Benzene	50.0	50.35		ug/L		101	75 - 125	2	25
Bromodichloromethane	50.0	51.32		ug/L		103	75 - 125	1	25
Bromoform	50.0	53.49		ug/L		107	70 - 130	3	25
Bromomethane	50.0	48.49		ug/L		97	60 - 140	1	25
Carbon disulfide	50.0	46.69		ug/L		93	60 - 140	1	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-161114/4**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	49.45		ug/L		99	70 - 125	2	25
Chlorobenzene	50.0	52.17		ug/L		104	82 - 135	2	25
Chlorodibromomethane	50.0	52.12		ug/L		104	73 - 125	3	25
Chloroethane	50.0	50.25		ug/L		101	60 - 140	3	25
Chloroform	50.0	47.85		ug/L		96	70 - 121	1	25
Chloromethane	50.0	44.28		ug/L		89	60 - 140	2	25
Chloroprene	50.0	49.66		ug/L		99	70 - 130	0	25
cis-1,2-Dichloroethene	50.0	49.51		ug/L		99	75 - 125	0	25
cis-1,3-Dichloropropene	50.0	50.91		ug/L		102	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	54.74		ug/L		109	75 - 125	1	25
Cyclohexane	50.0	50.51		ug/L		101	70 - 130	1	25
Dibromomethane	50.0	49.53		ug/L		99	69 - 127	2	25
Dichlorodifluoromethane	50.0	45.27		ug/L		91	50 - 150	2	25
Ethyl methacrylate	50.0	53.10		ug/L		106	70 - 130	2	25
Ethylbenzene	50.0	53.23		ug/L		106	75 - 125	0	25
Hexane	50.0	47.39		ug/L		95	72 - 125	6	25
Iodomethane	50.0	45.84		ug/L		92	75 - 125	2	25
Isobutanol	1240	1286		ug/L		104	60 - 140	2	25
Methacrylonitrile	500	478.9		ug/L		96	70 - 130	2	25
Methyl methacrylate	100	108.2		ug/L		108	70 - 130	1	25
Methyl tert-butyl ether	50.0	49.21		ug/L		98	65 - 135	3	25
Methylene Chloride	50.0	44.96		ug/L		90	71 - 125	2	25
Propionitrile	500	485.7		ug/L		97	70 - 130	0	25
Propylbenzene	50.0	53.32		ug/L		107	75 - 125	1	25
Styrene	50.0	54.28		ug/L		109	75 - 125	0	25
Tetrachloroethene	50.0	53.16		ug/L		106	71 - 125	1	25
Tetrahydrofuran	100	99.72		ug/L		100	75 - 125	2	25
Toluene	50.0	51.52		ug/L		103	75 - 130	1	25
trans-1,2-Dichloroethene	50.0	49.43		ug/L		99	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	53.10		ug/L		106	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	49.36		ug/L		99	70 - 130	1	25
Trichloroethene	50.0	52.15		ug/L		104	75 - 135	2	25
Trichlorofluoromethane	50.0	49.66		ug/L		99	60 - 140	3	25
Vinyl acetate	250	246.9		ug/L		99	60 - 140	1	25
Vinyl chloride	50.0	47.08		ug/L		94	60 - 140	4	25
Xylenes, Total	100	107.3		ug/L		107	75 - 125	1	25
m,p-Xylenes	0.0500	0.05385		mg/L		108	75 - 125	2	25
o-Xylene	0.0500	0.05344		mg/L		107	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	99		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74454-F-3 MS**

**Matrix: Water**

**Analysis Batch: 161114**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	49.80		ug/L		100	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	48.29		ug/L		97	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.85		ug/L		96	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	52.14		ug/L		104	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.22		ug/L		96	75 - 127
1,1-Dichloroethane	2.37		50.0	48.82		ug/L		93	72 - 125
1,1-Dichloroethene	0.871	J	50.0	50.97		ug/L		100	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	46.76		ug/L		94	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	51.05		ug/L		102	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	52.30		ug/L		105	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.51		ug/L		99	73 - 125
1,2-Dichloroethane	0.476	J	50.0	45.81		ug/L		91	68 - 127
1,2-Dichloropropane	0.582	J	50.0	48.04		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	49.33		ug/L		99	70 - 125
1,3-Butadiene	<0.568	U	50.0	45.03		ug/L		90	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	55.55		ug/L		111	70 - 130
2-Butanone (MEK)	<8.28	U	250	239.1		ug/L		96	60 - 140
2-Hexanone (MBK)	<7.45	U	250	237.5		ug/L		95	60 - 140
2-Propanol	<5.23	U	500	495.9		ug/L		99	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	51.95		ug/L		104	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	231.5		ug/L		93	60 - 140
Acetone	<3.07	U	250	223.7		ug/L		89	60 - 140
Acetonitrile	<14.6	U	500	429.1		ug/L		86	60 - 140
Acrolein	<11.1	U	250	205.5		ug/L		82	50 - 150
Acrylonitrile	<14.3	U	500	449.1		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	62.34		ug/L		125	70 - 130
Benzene	0.569	J	50.0	48.37		ug/L		96	66 - 142
Bromodichloromethane	<0.552	U	50.0	48.36		ug/L		97	75 - 125
Bromoform	<0.633	U	50.0	50.62		ug/L		101	75 - 125
Bromomethane	<1.42	U	50.0	46.06		ug/L		92	60 - 140
Carbon disulfide	<1.65	U	50.0	48.08		ug/L		96	60 - 140
Carbon tetrachloride	<0.896	U	50.0	49.55		ug/L		99	62 - 125
Chlorobenzene	0.614	J	50.0	49.63		ug/L		98	60 - 133
Chlorodibromomethane	<0.547	U	50.0	48.71		ug/L		97	73 - 125
Chloroethane	<1.98	U	50.0	47.55		ug/L		95	60 - 140
Chloroform	0.615	J	50.0	46.00		ug/L		91	70 - 130
Chloromethane	<2.04	U	50.0	41.67		ug/L		83	60 - 140
Chloroprene	<0.598	U	50.0	53.77		ug/L		108	70 - 130
cis-1,2-Dichloroethene	4.98		50.0	52.36		ug/L		95	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	49.17		ug/L		98	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	50.89		ug/L		102	75 - 125
Cyclohexane	<1.29	U	50.0	49.34		ug/L		99	70 - 130
Dibromomethane	<0.357	U	50.0	47.05		ug/L		94	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	39.61		ug/L		79	70 - 130
Ethyl methacrylate	<1.12	U	50.0	50.36		ug/L		101	70 - 130
Ethylbenzene	<0.385	U	50.0	50.14		ug/L		100	75 - 125
Hexane	<0.517	U	50.0	50.89		ug/L		102	72 - 125
Iodomethane	<6.52	U	50.0	45.31		ug/L		91	75 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74454-F-3 MS**  
**Matrix: Water**  
**Analysis Batch: 161114**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Isobutanol	<17.1	U	1240	1233		ug/L		99	60 - 140
Methacrylonitrile	<2.72	U	500	511.1		ug/L		102	70 - 130
Methyl methacrylate	<2.25	U	100	98.20		ug/L		98	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.90		ug/L		94	65 - 135
Methylene Chloride	<1.73	U	50.0	42.96		ug/L		86	75 - 125
Propionitrile	<3.34	U	500	455.9		ug/L		91	70 - 130
Propylbenzene	<0.429	U	50.0	49.87		ug/L		100	75 - 125
Styrene	<0.619	U	50.0	50.79		ug/L		102	75 - 125
Tetrachloroethene	<0.655	U	50.0	48.78		ug/L		98	71 - 125
Tetrahydrofuran	<1.83	U	100	94.74		ug/L		95	75 - 125
Toluene	<0.475	U	50.0	49.03		ug/L		98	59 - 139
trans-1,2-Dichloroethene	19.6		50.0	67.52		ug/L		96	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	50.31		ug/L		101	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	46.07		ug/L		92	70 - 130
Trichloroethene	<1.50	U	50.0	51.55		ug/L		103	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	47.56		ug/L		95	60 - 140
Vinyl acetate	<2.14	U	250	233.7		ug/L		93	60 - 140
Vinyl chloride	3.46		50.0	48.42		ug/L		90	60 - 140
Xylenes, Total	<1.24	U	100	100.7		ug/L		101	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05026		mg/L		101	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05043		mg/L		101	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	99		80 - 120

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-161236/1-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/20/24 13:29	05/20/24 17:44	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161236/1-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/20/24 13:29	05/20/24 17:44	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/20/24 13:29	05/20/24 17:44	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/20/24 13:29	05/20/24 17:44	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/20/24 13:29	05/20/24 17:44	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 17:44	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/20/24 13:29	05/20/24 17:44	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/20/24 13:29	05/20/24 17:44	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/20/24 13:29	05/20/24 17:44	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/20/24 13:29	05/20/24 17:44	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/20/24 13:29	05/20/24 17:44	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/20/24 13:29	05/20/24 17:44	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/20/24 13:29	05/20/24 17:44	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/20/24 13:29	05/20/24 17:44	1
Benzyl alcohol	0.6234	J	1.14	0.600	ug/L		05/20/24 13:29	05/20/24 17:44	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/20/24 13:29	05/20/24 17:44	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/20/24 13:29	05/20/24 17:44	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/20/24 13:29	05/20/24 17:44	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 17:44	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/20/24 13:29	05/20/24 17:44	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/20/24 13:29	05/20/24 17:44	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 17:44	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/20/24 13:29	05/20/24 17:44	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/20/24 13:29	05/20/24 17:44	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/20/24 13:29	05/20/24 17:44	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/20/24 13:29	05/20/24 17:44	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/20/24 13:29	05/20/24 17:44	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/20/24 13:29	05/20/24 17:44	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/20/24 13:29	05/20/24 17:44	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/20/24 13:29	05/20/24 17:44	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/20/24 13:29	05/20/24 17:44	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/20/24 13:29	05/20/24 17:44	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 17:44	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/20/24 13:29	05/20/24 17:44	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/20/24 13:29	05/20/24 17:44	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/20/24 13:29	05/20/24 17:44	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/20/24 13:29	05/20/24 17:44	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/20/24 13:29	05/20/24 17:44	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/20/24 13:29	05/20/24 17:44	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/20/24 13:29	05/20/24 17:44	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161236/1-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	<1.44	U	2.86	1.44	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/20/24 13:29	05/20/24 17:44	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/20/24 13:29	05/20/24 17:44	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/20/24 13:29	05/20/24 17:44	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/20/24 13:29	05/20/24 17:44	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/20/24 13:29	05/20/24 17:44	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/20/24 13:29	05/20/24 17:44	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/20/24 13:29	05/20/24 17:44	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/20/24 13:29	05/20/24 17:44	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/20/24 13:29	05/20/24 17:44	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/20/24 13:29	05/20/24 17:44	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/20/24 13:29	05/20/24 17:44	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/20/24 13:29	05/20/24 17:44	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 17:44	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/20/24 13:29	05/20/24 17:44	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/20/24 13:29	05/20/24 17:44	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 17:44	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/20/24 13:29	05/20/24 17:44	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 17:44	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/20/24 13:29	05/20/24 17:44	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/20/24 13:29	05/20/24 17:44	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/20/24 13:29	05/20/24 17:44	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/20/24 13:29	05/20/24 17:44	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/20/24 13:29	05/20/24 17:44	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/20/24 13:29	05/20/24 17:44	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/20/24 13:29	05/20/24 17:44	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/20/24 13:29	05/20/24 17:44	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/20/24 13:29	05/20/24 17:44	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 17:44	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/20/24 13:29	05/20/24 17:44	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/20/24 13:29	05/20/24 17:44	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/20/24 13:29	05/20/24 17:44	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/20/24 13:29	05/20/24 17:44	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/20/24 13:29	05/20/24 17:44	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161236/1-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/20/24 13:29	05/20/24 17:44	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/20/24 13:29	05/20/24 17:44	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/20/24 13:29	05/20/24 17:44	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/20/24 13:29	05/20/24 17:44	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 17:44	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 17:44	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/20/24 13:29	05/20/24 17:44	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/20/24 13:29	05/20/24 17:44	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/20/24 13:29	05/20/24 17:44	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/20/24 13:29	05/20/24 17:44	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/20/24 13:29	05/20/24 17:44	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/20/24 13:29	05/20/24 17:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		35 - 130	05/20/24 13:29	05/20/24 17:44	1
2-Fluorobiphenyl	122		43 - 130	05/20/24 13:29	05/20/24 17:44	1
2-Fluorophenol (Surr)	89		19 - 120	05/20/24 13:29	05/20/24 17:44	1
Nitrobenzene-d5 (Surr)	133		37 - 133	05/20/24 13:29	05/20/24 17:44	1
Phenol-d5 (Surr)	63		8 - 124	05/20/24 13:29	05/20/24 17:44	1
p-Terphenyl-d14	113		47 - 130	05/20/24 13:29	05/20/24 17:44	1

**Lab Sample ID: LCS 860-161236/2-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.86	1.727		ug/L		60	32 - 130
1,2-Dichlorobenzene	2.86	1.942		ug/L		68	32 - 130
1,3-Dichlorobenzene	2.86	1.617		ug/L		57	26 - 130
1,4-Dichlorobenzene	2.86	1.709		ug/L		60	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.656	J I	ug/L		93	10 - 173
2,4,5-Trichlorophenol	2.86	2.968		ug/L		104	35 - 130
2,4,6-Trichlorophenol	2.86	2.818		ug/L		99	52 - 129
2,4-Dichlorophenol	2.86	2.750		ug/L		96	53 - 122
2,4-Dimethylphenol	2.86	2.195		ug/L		77	42 - 120
1,4-Dioxane	2.86	1.008		ug/L		35	27 - 130
2,4-Dinitrophenol	2.86	1.446	J	ug/L		51	12 - 173
2,4-Dinitrotoluene	2.86	2.556		ug/L		89	48 - 127
2,6-Dinitrotoluene	2.86	2.752		ug/L		96	68 - 137
2-Chloronaphthalene	2.86	2.383		ug/L		83	10 - 130
2-Methylnaphthalene	2.86	2.187		ug/L		77	25 - 175
2-Methylphenol	2.86	2.468		ug/L		86	14 - 176
2-Nitroaniline	2.86	1.948		ug/L		68	59 - 130
2-Nitrophenol	2.86	2.856		ug/L		100	45 - 167
3 & 4 Methylphenol	2.86	2.301		ug/L		81	22 - 130
3-Nitroaniline	2.86	1.242		ug/L		43	30 - 130
4,6-Dinitro-2-methylphenol	2.86	1.386		ug/L		49	10 - 130
4-Bromophenyl phenyl ether	2.86	2.697		ug/L		94	65 - 120

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161236/2-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	2.86	2.745		ug/L		96	41 - 128
4-Chloroaniline	2.86	1.181		ug/L		41	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.620		ug/L		92	38 - 145
4-Nitroaniline	2.86	1.091	*	ug/L		38	42 - 125
Acenaphthene	2.86	2.681		ug/L		94	60 - 132
Acenaphthylene	2.86	2.641		ug/L		92	54 - 126
Aniline	2.86	0.9182		ug/L		32	15 - 130
Anthracene	2.86	2.646		ug/L		93	43 - 135
Benzo[a]anthracene	2.86	3.169		ug/L		111	42 - 133
Benzo[a]pyrene	2.86	2.936		ug/L		103	32 - 148
Benzo[b]fluoranthene	2.86	3.204		ug/L		112	42 - 140
Benzo[g,h,i]perylene	2.86	2.829		ug/L		99	25 - 195
Benzo[k]fluoranthene	2.86	3.251		ug/L		114	25 - 146
Benzyl alcohol	2.86	2.322		ug/L		81	57 - 130
Bis(2-chloroethoxy)methane	2.86	2.908		ug/L		102	49 - 165
Bis(2-chloroethyl)ether	2.86	2.902		ug/L		102	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	3.199		ug/L		112	29 - 137
Butyl benzyl phthalate	2.86	3.001		ug/L		105	28 - 130
Chrysene	2.86	3.092		ug/L		108	47 - 130
Dibenz(a,h)anthracene	2.86	2.889		ug/L		101	32 - 200
Dibenzofuran	2.86	2.642		ug/L		92	48 - 130
Diethyl phthalate	2.86	2.800		ug/L		98	53 - 120
Dimethyl phthalate	2.86	2.875		ug/L		101	67 - 120
Di-n-butyl phthalate	2.86	2.746		ug/L		96	8 - 120
Di-n-octyl phthalate	2.86	3.103		ug/L		109	19 - 200
Fluoranthene	2.86	2.789		ug/L		98	43 - 130
Fluorene	2.86	2.685		ug/L		94	70 - 130
Hexachlorobenzene	2.86	2.741		ug/L		96	8 - 142
Hexachlorobutadiene	2.86	1.347		ug/L		47	10 - 130
Hexachlorocyclopentadiene	2.86	1.348		ug/L		47	10 - 130
Hexachloroethane	2.86	1.380		ug/L		48	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	2.900		ug/L		102	29 - 151
Isophorone	2.86	2.803		ug/L		98	47 - 180
Naphthalene	2.86	2.270		ug/L		79	36 - 120
Nitrobenzene	2.86	2.760		ug/L		97	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.014		ug/L		105	14 - 198
N-Nitrosodiphenylamine	2.86	2.627		ug/L		92	40 - 127
Pentachlorophenol	2.86	2.574		ug/L		90	38 - 152
Phenanthrene	2.86	2.743		ug/L		96	65 - 120
Phenol	2.86	1.290	J	ug/L		45	17 - 120
Pyrene	2.86	2.816		ug/L		99	70 - 130
Pyridine	2.86	<1.44	U	ug/L		19	1 - 126
N-Nitro-o-toluidine	2.86	1.188	*-	ug/L		42	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	2.931		ug/L		103	33 - 132
Acetophenone	2.86	3.014		ug/L		105	58 - 130
N-Nitrosopiperidine	2.86	2.483		ug/L		87	54 - 130
Pentachlorobenzene	2.86	2.304		ug/L		81	47 - 130
Diphenyl ether	2.86	2.387		ug/L		84	61 - 130
1,1'-Biphenyl	2.86	2.415		ug/L		85	52 - 130

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161236/2-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Aminobiphenyl	2.86	1.077		ug/L		38	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.883		ug/L		66	52 - 130
1,3,5-Trinitrobenzene	2.86	2.588		ug/L		91	42 - 130
1,3-Dinitrobenzene	2.86	2.649		ug/L		93	54 - 130
1,4-Naphthoquinone	2.86	3.007		ug/L		105	34 - 130
1-Naphthylamine	2.86	0.7092	*-	ug/L		25	40 - 130
2,6-Dichlorophenol	2.86	2.450		ug/L		86	40 - 130
2-Acetylaminofluorene	2.86	3.732		ug/L		131	50 - 150
2-Chlorophenol	2.86	2.620		ug/L		92	36 - 120
2-Naphthylamine	2.86	1.069		ug/L		37	30 - 130
2-Picoline	2.86	0.8491		ug/L		30	22 - 130
2-Toluidine	2.86	1.009		ug/L		35	30 - 130
3,3'-Dichlorobenzidine	2.86	1.135		ug/L		40	20 - 150
3,3'-Dimethylbenzidine	2.86	0.3084	J *-	ug/L		11	30 - 130
3-Methylcholanthrene	2.86	2.330		ug/L		82	53 - 130
4-Nitroquinoline-1-oxide	2.86	2.263		ug/L		79	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	3.105		ug/L		109	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	1.552		ug/L		109	69 - 130
Aramite Peak 2	1.43	1.490		ug/L		104	65 - 130
Diallate Peak 1	2.11	1.885		ug/L		89	69 - 130
Diallate Peak 2	0.743	0.6697		ug/L		90	67 - 130
Ethyl methanesulfonate	2.86	2.122		ug/L		74	54 - 130
Hexachloropropene	2.86	1.236		ug/L		43	37 - 130
Isosafrole Peak 1	0.457	0.2777	J	ug/L		61	54 - 130
Isosafrole Peak 2	2.40	1.546		ug/L		64	62 - 130
Methyl methanesulfonate	2.86	0.9642		ug/L		34	30 - 130
N-Nitrosodiethylamine	2.86	2.575		ug/L		90	54 - 130
N-Nitrosodimethylamine	2.86	0.7778	*-	ug/L		27	28 - 126
N-Nitrosodi-n-butylamine	2.86	2.680		ug/L		94	58 - 130
N-Nitrosomethylethylamine	2.86	1.711		ug/L		60	45 - 130
N-Nitrosomorpholine	2.86	1.183		ug/L		41	37 - 130
N-Nitrosopyrrolidine	2.86	1.661		ug/L		58	47 - 130
p-Dimethylamino azobenzene	2.86	2.280		ug/L		80	61 - 130
Pentachloronitrobenzene	2.86	2.774		ug/L		97	56 - 130
Phenacetin	2.86	2.565		ug/L		90	70 - 130
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120
Pronamide	2.86	2.797		ug/L		98	70 - 130
Safrole, Total	2.86	2.476		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	119		35 - 130
2-Fluorobiphenyl	120		43 - 130
2-Fluorophenol (Surr)	84		19 - 120
Nitrobenzene-d5 (Surr)	126		37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14	112		47 - 130

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161236/4-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Dimethoate	5.71	4.790		ug/L		84	45 - 138
Dinoseb	5.71	6.617		ug/L		116	49 - 130
Disulfoton	5.71	5.377		ug/L		94	38 - 134
Ethyl Parathion	5.71	6.787		ug/L		119	25 - 173
Famphur	2.86	2.956		ug/L		103	43 - 142
Methapyrilene	5.71	6.101		ug/L		107	70 - 183
Methyl parathion	5.71	6.486		ug/L		114	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.253		ug/L		79	43 - 130
Phorate	5.71	4.750		ug/L		83	37 - 140
Sulfotepp	5.71	4.605		ug/L		81	28 - 158
Thionazin	2.86	2.024		ug/L		71	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		35 - 130
2-Fluorobiphenyl	118		43 - 130
2-Fluorophenol (Surr)	78		19 - 120
Nitrobenzene-d5 (Surr)	126		37 - 133
Phenol-d5 (Surr)	59		8 - 124
p-Terphenyl-d14	113		47 - 130

**Lab Sample ID: LCSD 860-161236/3-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2,4-Trichlorobenzene	2.86	2.172		ug/L		76	32 - 130	23	30
1,2-Dichlorobenzene	2.86	2.428		ug/L		85	32 - 130	22	30
1,3-Dichlorobenzene	2.86	2.244	*1	ug/L		79	26 - 130	32	30
1,4-Dichlorobenzene	2.86	2.171		ug/L		76	28 - 130	24	30
2,2'-oxybis[1-chloropropane]	2.86	2.819	J	ug/L		99	10 - 173	6	30
2,4,5-Trichlorophenol	2.86	3.280		ug/L		115	35 - 130	10	30
2,4,6-Trichlorophenol	2.86	3.084		ug/L		108	52 - 129	9	30
2,4-Dichlorophenol	2.86	3.036		ug/L		106	53 - 122	10	30
2,4-Dimethylphenol	2.86	2.422		ug/L		85	42 - 120	10	30
1,4-Dioxane	2.86	1.087		ug/L		38	27 - 130	8	30
2,4-Dinitrophenol	2.86	1.683	J	ug/L		59	12 - 173	15	30
2,4-Dinitrotoluene	2.86	2.859		ug/L		100	48 - 127	11	30
2,6-Dinitrotoluene	2.86	3.175		ug/L		111	68 - 137	14	30
2-Chloronaphthalene	2.86	2.720		ug/L		95	10 - 130	13	30
2-Methylnaphthalene	2.86	2.561		ug/L		90	25 - 175	16	30
2-Methylphenol	2.86	2.722		ug/L		95	14 - 176	10	30
2-Nitroaniline	2.86	2.208		ug/L		77	59 - 130	12	30
2-Nitrophenol	2.86	3.011		ug/L		105	45 - 167	5	30
3 & 4 Methylphenol	2.86	2.553		ug/L		89	22 - 130	10	30
3-Nitroaniline	2.86	1.369		ug/L		48	30 - 130	10	30
4,6-Dinitro-2-methylphenol	2.86	1.520		ug/L		53	10 - 130	9	30
4-Bromophenyl phenyl ether	2.86	3.047		ug/L		107	65 - 120	12	30
4-Chloro-3-methylphenol	2.86	3.027		ug/L		106	41 - 128	10	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161236/3-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
4-Chloroaniline	2.86	1.314		ug/L		46	30 - 130	11	30	
4-Chlorophenyl phenyl ether	2.86	2.828		ug/L		99	38 - 145	8	30	
4-Nitroaniline	2.86	1.238		ug/L		43	42 - 125	13	30	
Acenaphthene	2.86	2.875		ug/L		101	60 - 132	7	30	
Acenaphthylene	2.86	2.901		ug/L		102	54 - 126	9	30	
Aniline	2.86	1.171		ug/L		41	15 - 130	24	30	
Anthracene	2.86	2.833		ug/L		99	43 - 135	7	30	
Benzo[a]anthracene	2.86	3.416		ug/L		120	42 - 133	7	30	
Benzo[a]pyrene	2.86	3.092		ug/L		108	32 - 148	5	30	
Benzo[b]fluoranthene	2.86	3.449		ug/L		121	42 - 140	7	30	
Benzo[g,h,i]perylene	2.86	3.005		ug/L		105	25 - 195	6	30	
Benzo[k]fluoranthene	2.86	3.326		ug/L		116	25 - 146	2	30	
Benzyl alcohol	2.86	2.594		ug/L		91	57 - 130	11	30	
Bis(2-chloroethoxy)methane	2.86	3.168		ug/L		111	49 - 165	9	30	
Bis(2-chloroethyl)ether	2.86	3.211		ug/L		112	43 - 126	10	30	
Bis(2-ethylhexyl) phthalate	2.86	3.339		ug/L		117	29 - 137	4	30	
Butyl benzyl phthalate	2.86	3.057		ug/L		107	28 - 130	2	30	
Chrysene	2.86	3.259		ug/L		114	47 - 130	5	30	
Dibenz(a,h)anthracene	2.86	3.034		ug/L		106	32 - 200	5	30	
Dibenzofuran	2.86	2.827		ug/L		99	48 - 130	7	30	
Diethyl phthalate	2.86	2.988		ug/L		105	53 - 120	6	30	
Dimethyl phthalate	2.86	3.130		ug/L		110	67 - 120	8	30	
Di-n-butyl phthalate	2.86	2.927		ug/L		102	8 - 120	6	30	
Di-n-octyl phthalate	2.86	3.262		ug/L		114	19 - 200	5	30	
Fluoranthene	2.86	2.982		ug/L		104	43 - 130	7	30	
Fluorene	2.86	2.953		ug/L		103	70 - 130	10	30	
Hexachlorobenzene	2.86	2.921		ug/L		102	8 - 142	6	30	
Hexachlorobutadiene	2.86	1.902	*1	ug/L		67	10 - 130	34	30	
Hexachlorocyclopentadiene	2.86	1.868	*1	ug/L		65	10 - 130	32	30	
Hexachloroethane	2.86	2.010	*1	ug/L		70	10 - 130	37	30	
Indeno[1,2,3-cd]pyrene	2.86	3.069		ug/L		107	29 - 151	6	30	
Isophorone	2.86	3.102		ug/L		109	47 - 180	10	30	
Naphthalene	2.86	2.585		ug/L		90	36 - 120	13	30	
Nitrobenzene	2.86	3.186		ug/L		112	54 - 130	14	30	
N-Nitrosodi-n-propylamine	2.86	3.684		ug/L		129	14 - 198	20	30	
N-Nitrosodiphenylamine	2.86	2.939		ug/L		103	40 - 127	11	30	
Pentachlorophenol	2.86	2.813		ug/L		98	38 - 152	9	30	
Phenanthrene	2.86	2.935		ug/L		103	65 - 120	7	30	
Phenol	2.86	1.496	J	ug/L		52	17 - 120	15	30	
Pyrene	2.86	3.042		ug/L		106	70 - 130	8	30	
Pyridine	2.86	<1.44	U *1	ug/L		29	1 - 126	42	30	
N-Nitro-o-toluidine	2.86	1.287	*-	ug/L		45	47 - 130	8	30	
2,3,4,6-Tetrachlorophenol	2.86	3.003		ug/L		105	33 - 132	2	30	
Acetophenone	2.86	3.419		ug/L		120	58 - 130	13	30	
N-Nitrosopiperidine	2.86	2.707		ug/L		95	54 - 130	9	30	
Pentachlorobenzene	2.86	2.569		ug/L		90	47 - 130	11	30	
Diphenyl ether	2.86	2.689		ug/L		94	61 - 130	12	30	
1,1'-Biphenyl	2.86	2.630		ug/L		92	52 - 130	9	30	
4-Aminobiphenyl	2.86	1.267		ug/L		44	35 - 130	16	30	

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161236/3-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,2,4,5-Tetrachlorobenzene	2.86	2.297		ug/L		80	52 - 130	20	30	
1,3,5-Trinitrobenzene	2.86	2.704		ug/L		95	42 - 130	4	30	
1,3-Dinitrobenzene	2.86	2.805		ug/L		98	54 - 130	6	30	
1,4-Naphthoquinone	2.86	3.276		ug/L		115	34 - 130	9	30	
1-Naphthylamine	2.86	0.9389	*-	ug/L		33	40 - 130	28	30	
2,6-Dichlorophenol	2.86	2.693		ug/L		94	40 - 130	9	30	
2-Acetylaminofluorene	2.86	3.953		ug/L		138	50 - 150	6	30	
2-Chlorophenol	2.86	2.859		ug/L		100	36 - 120	9	30	
2-Naphthylamine	2.86	1.207		ug/L		42	30 - 130	12	30	
2-Picoline	2.86	1.278	*1	ug/L		45	22 - 130	40	30	
2-Toluidine	2.86	1.067		ug/L		37	30 - 130	6	30	
3,3'-Dichlorobenzidine	2.86	1.173		ug/L		41	20 - 150	3	30	
3,3'-Dimethylbenzidine	2.86	0.4942	J *- *1	ug/L		17	30 - 130	46	30	
3-Methylcholanthrene	2.86	2.496		ug/L		87	53 - 130	7	30	
4-Nitroquinoline-1-oxide	2.86	2.574		ug/L		90	39 - 130	13	30	
7,12-Dimethylbenz(a)anthracene	2.86	3.251		ug/L		114	63 - 130	5	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	1.686		ug/L		118	69 - 130	8	30	
Aramite Peak 2	1.43	1.563		ug/L		109	65 - 130	5	30	
Diallate Peak 1	2.11	2.153		ug/L		102	69 - 130	13	30	
Diallate Peak 2	0.743	0.7390		ug/L		99	67 - 130	10	30	
Ethyl methanesulfonate	2.86	2.334		ug/L		82	54 - 130	10	30	
Hexachloropropene	2.86	1.714	*1	ug/L		60	37 - 130	32	30	
Isosafrole Peak 1	0.457	0.3194	J	ug/L		70	54 - 130	14	30	
Isosafrole Peak 2	2.40	1.764		ug/L		73	62 - 130	13	30	
Methyl methanesulfonate	2.86	1.014		ug/L		35	30 - 130	5	30	
N-Nitrosodiethylamine	2.86	2.798		ug/L		98	54 - 130	8	30	
N-Nitrosodimethylamine	2.86	0.8427		ug/L		29	28 - 126	8	30	
N-Nitrosodi-n-butylamine	2.86	2.933		ug/L		103	58 - 130	9	30	
N-Nitrosomethylethylamine	2.86	1.900		ug/L		67	45 - 130	10	30	
N-Nitrosomorpholine	2.86	1.223		ug/L		43	37 - 130	3	30	
N-Nitrosopyrrolidine	2.86	1.759		ug/L		62	47 - 130	6	30	
p-Dimethylamino azobenzene	2.86	2.364		ug/L		83	61 - 130	4	30	
Pentachloronitrobenzene	2.86	2.595		ug/L		91	56 - 130	7	30	
Phenacetin	2.86	2.898		ug/L		101	70 - 130	12	30	
p-Phenylene diamine	2.86	<0.500	U *-	ug/L		0	3 - 120	NC	30	
Pronamide	2.86	3.059		ug/L		107	70 - 130	9	30	
Safrole, Total	2.86	2.674		ug/L		94	70 - 130	8	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	120		35 - 130
2-Fluorobiphenyl	115		43 - 130
2-Fluorophenol (Surr)	85		19 - 120
Nitrobenzene-d5 (Surr)	124		37 - 133
Phenol-d5 (Surr)	63		8 - 124
p-Terphenyl-d14	107		47 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161236/5-A**  
**Matrix: Water**  
**Analysis Batch: 161199**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161236**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate	5.71	7.169	*1	ug/L		125	45 - 138	40	30
Dinoseb	5.71	9.007	*+ *1	ug/L		158	49 - 130	31	30
Disulfoton	5.71	7.400	*1	ug/L		130	38 - 134	32	30
Ethyl Parathion	5.71	9.911	*1	ug/L		173	25 - 173	37	30
Famphur	2.86	4.181	*+ *1	ug/L		146	43 - 142	34	30
Methapyrilene	5.71	8.292		ug/L		145	70 - 183	30	30
Methyl parathion	5.71	9.244	*+ *1	ug/L		162	26 - 159	35	30
o,o',o"-Triethylphosphorothioate	2.86	3.414	*1	ug/L		119	43 - 130	41	30
Phorate	5.71	6.812	*1	ug/L		119	37 - 140	36	30
Sulfotepp	5.71	6.580	*1	ug/L		115	28 - 158	35	30
Thionazin	2.86	2.703		ug/L		95	50 - 150	29	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	112		35 - 130
2-Fluorobiphenyl	124		43 - 130
2-Fluorophenol (Surr)	90		19 - 120
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133
Phenol-d5 (Surr)	69		8 - 124
p-Terphenyl-d14	119		47 - 130

# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## GC/MS VOA

### Analysis Batch: 161114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-1	CM-05	Total/NA	Water	8260D	
860-74297-2	CM-04	Total/NA	Water	8260D	
860-74297-3	CM-03	Total/NA	Water	8260D	
860-74297-4	CM-02	Total/NA	Water	8260D	
860-74297-5	CM-01	Total/NA	Water	8260D	
860-74297-6	CM-00	Total/NA	Water	8260D	
860-74297-7	TB-08 (051424)	Total/NA	Water	8260D	
MB 860-161114/9	Method Blank	Total/NA	Water	8260D	
LCS 860-161114/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-161114/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74454-F-3 MS	Matrix Spike	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Analysis Batch: 161199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-1	CM-05	Total/NA	Water	8270E	161236
860-74297-2	CM-04	Total/NA	Water	8270E	161236
860-74297-3	CM-03	Total/NA	Water	8270E	161236
MB 860-161236/1-A	Method Blank	Total/NA	Water	8270E	161236
LCS 860-161236/2-A	Lab Control Sample	Total/NA	Water	8270E	161236
LCS 860-161236/4-A	Lab Control Sample	Total/NA	Water	8270E	161236
LCSD 860-161236/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	161236
LCSD 860-161236/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	161236

### Prep Batch: 161236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-1	CM-05	Total/NA	Water	3511	
860-74297-1 - RA	CM-05	Total/NA	Water	3511	
860-74297-2	CM-04	Total/NA	Water	3511	
860-74297-2 - RE	CM-04	Total/NA	Water	3511	
860-74297-3	CM-03	Total/NA	Water	3511	
860-74297-3 - RE	CM-03	Total/NA	Water	3511	
860-74297-4	CM-02	Total/NA	Water	3511	
860-74297-5	CM-01	Total/NA	Water	3511	
860-74297-6	CM-00	Total/NA	Water	3511	
MB 860-161236/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-161236/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-161236/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-161236/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-161236/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 161317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-4	CM-02	Total/NA	Water	8270E	161236
860-74297-5	CM-01	Total/NA	Water	8270E	161236
860-74297-6	CM-00	Total/NA	Water	8270E	161236

### Analysis Batch: 161920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-2 - RE	CM-04	Total/NA	Water	8270E	161236

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 161920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-3 - RE	CM-03	Total/NA	Water	8270E	161236

### Analysis Batch: 162622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74297-1 - RA	CM-05	Total/NA	Water	8270E	161236

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# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Client Sample ID: CM-05

Date Collected: 05/14/24 07:35

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74297-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 14:31	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161199	05/20/24 21:16	T1S	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	162622	05/28/24 20:22	T1S	EET HOU

## Client Sample ID: CM-04

Date Collected: 05/14/24 08:00

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74297-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 14:52	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161199	05/20/24 21:46	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161920	05/23/24 12:20	PXS	EET HOU

## Client Sample ID: CM-03

Date Collected: 05/14/24 08:24

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74297-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 15:12	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161199	05/20/24 22:16	T1S	EET HOU
Total/NA	Prep	3511	RE		35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E	RE	1	1 mL	1 mL	161920	05/23/24 12:49	PXS	EET HOU

## Client Sample ID: CM-02

Date Collected: 05/14/24 08:46

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74297-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 17:26	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161317	05/21/24 11:10	T1S	EET HOU

## Client Sample ID: CM-01

Date Collected: 05/14/24 09:10

Date Received: 05/15/24 09:30

## Lab Sample ID: 860-74297-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 17:46	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161317	05/21/24 09:11	T1S	EET HOU

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# Lab Chronicle

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

**Client Sample ID: CM-00**

**Date Collected: 05/14/24 09:45**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74297-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 18:07	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161236	05/20/24 13:29	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161317	05/21/24 09:40	T1S	EET HOU

**Client Sample ID: TB-08 (051424)**

**Date Collected: 05/14/24 00:00**

**Date Received: 05/15/24 09:30**

**Lab Sample ID: 860-74297-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161114	05/20/24 11:47	NA	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74297-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-74297-1	CM-05	Water	05/14/24 07:35	05/15/24 09:30
860-74297-2	CM-04	Water	05/14/24 08:00	05/15/24 09:30
860-74297-3	CM-03	Water	05/14/24 08:24	05/15/24 09:30
860-74297-4	CM-02	Water	05/14/24 08:46	05/15/24 09:30
860-74297-5	CM-01	Water	05/14/24 09:10	05/15/24 09:30
860-74297-6	CM-00	Water	05/14/24 09:45	05/15/24 09:30
860-74297-7	TB-08 (051424)	Water	05/14/24 00:00	05/15/24 09:30

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4145 Greenbriar Dr  
Stafford, TX 77477  
Phone (281) 240-4200

# RNA-Greens Leak Chain of Custody Record

Environment Testing

## Client Information

Client Contact: Mr. Antonio Cardoso  
Company: Arcadis U.S. Inc.  
Address: 4300 West Cypress Street Suite 450  
City: Tampa  
State, ZIP: FL, 33607  
Phone: 1085575  
Email: antonio.cardoso@arcadis.com  
Project Name: Hercules Hattiesburg, MS  
Site: SCON#

Supplier: Kopy Martynov / Elex  
Phone: 885-205-8246  
Email: Sachin.Rudchadkar@eatonrfus.com  
Job #:  
Page: Page 3 of 8  
Date: 1/21

Carrier Tracking No(s):  
State of Origin:  
Preservation Codes:  
N None

Due Date Requested:  
TAT Requested (days):  
Compliance Project:  Yes  No  
PO #: 1085575  
WO #:  
Project #: 86006085  
SSON#:

Analysis Requested  
8270E\_QQQ (MOD) Appendix 9 SVOCs  
8260D (MOD) Appendix 9 VOCs

COG No.: 860-29133-10045.3  
Job #:  
Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (In-Service, Non-Service)	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note
AM-05	5/14/24	0735	Water	Water	X		7	
AM-04		0800	Water	Water	X		7	
AM-03		0834	Water	Water	X		7	
AM-02		0846	Water	Water	X		7	
AM-01		0910	Water	Water	X		7	
AM-00		0945	Water	Water	X		7	
AM-08 (051424)			Water	Water	X		2	



Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV Other (specify)

Empty Kit Requisitioned by: [Signature]

Requisitioned by: [Signature]

Date: 5-14-24 / 15:40

Company: Arcadis

Received by: [Signature]

Date/Time: 5/15/24 9:30

Company: [Blank]

Method of Shipment:

Received by: [Signature]

Date/Time: 5/15/24 9:30

Company: [Blank]

Special Instructions/Note: [Blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For Months

Custody Seals Intact:  Yes  No

Custody Seal No. 2528663

Received by: [Signature]

Date/Time: 5/15/24 9:30

Company: [Blank]

Received by: [Signature]

Date/Time: 5/15/24 9:30

Company: [Blank]

Method of Shipment:

Received by: [Signature]

Date/Time: 5/15/24 9:30

Company: [Blank]

860-74297 Chain of Custody

100-368

CF 10 2

Ver 01/16/2019

# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74297-1

**Login Number: 74297**

**List Source: Eurofins Houston**

**List Number: 1**

**Creator: Torrez, Lisandra**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Timothy Hassett  
Ashland LLC  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8145  
Wilmington, Delaware 19808

Generated 5/30/2024 8:09:16 PM

**JOB DESCRIPTION**

Hercules Hattiesburg, MS

**JOB NUMBER**

860-74400-1



# Eurofins Houston

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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5/30/2024 8:09:16 PM

Authorized for release by  
Sachin Kudchadkar, Senior Project Manager  
[Sachin.Kudchadkar@et.eurofinsus.com](mailto:Sachin.Kudchadkar@et.eurofinsus.com)  
(281)748-9025



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# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

### LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

# Definitions/Glossary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Job ID: 860-74400-1**

**Eurofins Houston**

## Job Narrative 860-74400-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/16/2024 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

### GC/MS VOA

Method 8260D: The following sample was diluted due to floating particles and cloudy appearance: MW-16 (860-74400-8). Elevated reporting limits (RL) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-23 (860-74400-9), MW-21 (860-74400-10), MW-13 (860-74400-12), MW-8 (860-74400-13), MW-17 (860-74400-14) and DUPE-01 (860-74400-15). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-161379 recovered above the upper control limit for Benzyl chloride (21.2%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-161379/2).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-161379 recovered outside control limits for the following analytes: Benzyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-161379 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-15 (860-74400-7). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8 (860-74400-13) and DUPE-01 (860-74400-15). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-161868 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-8 (860-74400-13) and DUPE-01 (860-74400-15)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC/MS Semi VOA

Method 8270E\_QQQ: The method blank for preparation batch 860-161376 and analytical batch 860-161760 contained Benzyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed due to it is common lab contaminant.

Method 8270E\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-161376 and analytical batch 860-161760 recovered outside control limits for the following analyte: Dinoseb. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

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# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Job ID: 860-74400-1 (Continued)**

**Eurofins Houston**

Method 8270E\_QQQ: The laboratory control sample (LCS) for preparation batch 860-161376 and analytical batch 860-161760 recovered outside control limits for the following analyte: 2-Acetylaminofluorene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_QQQ: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-161376 and analytical batch 860-161760 recovered outside control limits for the following analytes: 1-Naphthylamine, 2-Nitroaniline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Nitroaniline, alpha,alpha-Dimethyl phenethylamine, N-Nitro-o-toluidine, p-Dimethylamino azobenzene and p-Phenylene diamine. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E\_QQQ: The laboratory control sample duplicate (LCSD) for preparation batch 860-161376 and analytical batch 860-161760 recovered outside control limits for the following analyte: Hexachloropropene. The laboratory control sample (LCS) for preparation batch 860-161376 and analytical batch 860-161760 recovered within control limit for this analyte. Re-preparation and re-analysis was not performed as the holding time had expired.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-16 (860-74400-8), MW-23 (860-74400-9), MW-21 (860-74400-10), MW-13 (860-74400-12), MW-8 (860-74400-13), MW-17 (860-74400-14) and DUPE-01 (860-74400-15). These results have been reported and qualified.

Method 8270E\_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-15 (860-74400-7), MW-16 (860-74400-8), MW-23 (860-74400-9), MW-21 (860-74400-10), MW-8 (860-74400-13), MW-17 (860-74400-14) and DUPE-01 (860-74400-15). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E\_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-17 (860-74400-14) and DUPE-01 (860-74400-15). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-17 (860-74400-14) and DUPE-01 (860-74400-15). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-4 (860-74400-6). These results have been reported and qualified.

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-14 (860-74400-4), MW-5 (860-74400-5), MW-4 (860-74400-6), MW-15 (860-74400-7), MW-16 (860-74400-8), MW-23 (860-74400-9), MW-21 (860-74400-10), MW-13 (860-74400-12), MW-8 (860-74400-13), MW-17 (860-74400-14) and DUPE-01 (860-74400-15). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-7 (860-74400-3), MW-5 (860-74400-5), MW-15 (860-74400-7), MW-23 (860-74400-9) and MW-21 (860-74400-10). These results have been reported and qualified.

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-14 (860-74400-4), MW-4 (860-74400-6), MW-15 (860-74400-7), MW-16 (860-74400-8), MW-21 (860-74400-10), MW-13 (860-74400-12) and MW-8 (860-74400-13). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-23 (860-74400-9) and MW-21 (860-74400-10). These results have been reported and qualified.

Method 8270E\_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-23 (860-74400-9) and MW-21 (860-74400-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Eurofins Houston

# Case Narrative

Client: Ashland LLC  
Project: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Job ID: 860-74400-1 (Continued)**

**Eurofins Houston**

Method 8270E\_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-23 (860-74400-9) and MW-21 (860-74400-10). Elevated reporting limits (RLs) are provided.

Method 8270E\_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-17 (860-74400-14) and DUPE-01 (860-74400-15). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-6

Lab Sample ID: 860-74400-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.235	J	0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.02	J B	1.14	0.600	ug/L	1		8270E	Total/NA

## Client Sample ID: FB-01

Lab Sample ID: 860-74400-2

No Detections.

## Client Sample ID: MW-7

Lab Sample ID: 860-74400-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.460	J	0.571	0.0890	ug/L	1		8270E	Total/NA
2,4-Dinitrophenol	0.355	J	2.86	0.104	ug/L	1		8270E	Total/NA
Benzyl alcohol	0.813	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.746		0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RA	0.782		0.571	0.138	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-14

Lab Sample ID: 860-74400-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.26	J	100	3.07	ug/L	1		8260D	Total/NA
2,4-Dinitrophenol	0.442	J	2.86	0.104	ug/L	1		8270E	Total/NA
Acenaphthene	0.225	J	0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.16	B	1.14	0.600	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	84.2		11.4	2.77	ug/L	20		8270E	Total/NA
1,4-Dioxane - DL	210		11.4	1.78	ug/L	20		8270E	Total/NA
Diphenyl ether - DL	26.4		11.4	1.82	ug/L	20		8270E	Total/NA

## Client Sample ID: MW-5

Lab Sample ID: 860-74400-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol	0.937	J B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	0.639		0.571	0.0910	ug/L	1		8270E	Total/NA
1,4-Dioxane - DL	49.5		5.71	0.890	ug/L	10		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - RA	3.81		0.571	0.138	ug/L	1		8270E	Total/NA

## Client Sample ID: MW-4

Lab Sample ID: 860-74400-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.566	J	5.00	0.500	ug/L	1		8260D	Total/NA
1,4-Dioxane	2.39		0.571	0.0890	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.03	J B	1.14	0.600	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	8.60		2.86	0.691	ug/L	5		8270E	Total/NA
Diphenyl ether - DL	39.9		2.86	0.455	ug/L	5		8270E	Total/NA

## Client Sample ID: MW-15

Lab Sample ID: 860-74400-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11.2	J	100	3.07	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	0.858	J	1.00	0.592	ug/L	1		8260D	Total/NA
Benzyl alcohol	1.72	B	1.14	0.600	ug/L	1		8270E	Total/NA
Diphenyl ether	4.84		0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	33.1		5.71	1.38	ug/L	10		8270E	Total/NA
1,4-Dioxane - DL	1120		57.1	8.90	ug/L	100		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston



# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-16

## Lab Sample ID: 860-74400-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.442	J	0.571	0.107	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.20	B	1.14	0.600	ug/L	1		8270E	Total/NA
Diethyl phthalate	0.357	J	1.14	0.155	ug/L	1		8270E	Total/NA
Fluorene	0.196	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Diphenyl ether	6.20		0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate	910		57.1	13.8	ug/L	100		8270E	Total/NA
1,4-Dioxane - DL	296		57.1	8.90	ug/L	100		8270E	Total/NA

## Client Sample ID: MW-23

## Lab Sample ID: 860-74400-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4770		50.0	23.0	ug/L	50		8260D	Total/NA
Chlorobenzene	143		50.0	22.8	ug/L	50		8260D	Total/NA
Chloroform	29.4	J	50.0	23.2	ug/L	50		8260D	Total/NA
Toluene	731		50.0	23.8	ug/L	50		8260D	Total/NA
1,2-Dichlorobenzene	1.66		0.571	0.0941	ug/L	1		8270E	Total/NA
1,3-Dichlorobenzene	0.136	J	0.571	0.102	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	2.01		0.571	0.0779	ug/L	1		8270E	Total/NA
2,4,5-Trichlorophenol	0.268	J	0.571	0.143	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol	0.276	J	0.571	0.140	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol	9.97		0.571	0.192	ug/L	1		8270E	Total/NA
2-Methylphenol	9.65		0.571	0.105	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	18.2		0.571	0.139	ug/L	1		8270E	Total/NA
Acenaphthene	0.729		0.571	0.107	ug/L	1		8270E	Total/NA
Anthracene	0.0982	J	0.571	0.0938	ug/L	1		8270E	Total/NA
Dibenzofuran	1.26		0.571	0.107	ug/L	1		8270E	Total/NA
Fluoranthene	0.220	J	0.571	0.0883	ug/L	1		8270E	Total/NA
Fluorene	1.32		0.571	0.0948	ug/L	1		8270E	Total/NA
Naphthalene	16.2		0.571	0.0944	ug/L	1		8270E	Total/NA
Phenanthrene	1.78		0.571	0.134	ug/L	1		8270E	Total/NA
Pyrene	0.0970	J	0.571	0.0849	ug/L	1		8270E	Total/NA
Acetophenone	4.57		1.14	0.624	ug/L	1		8270E	Total/NA
2,6-Dichlorophenol	0.179	J	0.571	0.118	ug/L	1		8270E	Total/NA
2-Chlorophenol	0.781		0.571	0.0756	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - DL	4.78		2.86	0.691	ug/L	5		8270E	Total/NA
Phenol - DL2	40.3		28.6	4.48	ug/L	10		8270E	Total/NA
1,4-Dioxane - DL3	157		28.6	4.45	ug/L	50		8270E	Total/NA
1,1'-Biphenyl - DL3	336		28.6	4.91	ug/L	50		8270E	Total/NA
Diphenyl ether - DL4	1390		286	45.5	ug/L	500		8270E	Total/NA

## Client Sample ID: MW-21

## Lab Sample ID: 860-74400-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5250		50.0	23.0	ug/L	50		8260D	Total/NA
Chlorobenzene	191		50.0	22.8	ug/L	50		8260D	Total/NA
Chloroform	2100		50.0	23.2	ug/L	50		8260D	Total/NA
Cumene (isopropylbenzene)	84.1		50.0	29.6	ug/L	50		8260D	Total/NA
Methylene Chloride	112	J	250	86.3	ug/L	50		8260D	Total/NA
Toluene	5590		50.0	23.8	ug/L	50		8260D	Total/NA
1,2-Dichlorobenzene	2.36		0.571	0.0941	ug/L	1		8270E	Total/NA
1,3-Dichlorobenzene	0.221	J	0.571	0.102	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	2.98		0.571	0.0779	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-21 (Continued)

## Lab Sample ID: 860-74400-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,5-Trichlorophenol	0.275	J	0.571	0.143	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol	0.223	J	0.571	0.140	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol	11.3		0.571	0.192	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.841		0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylphenol	18.3		0.571	0.105	ug/L	1		8270E	Total/NA
Acenaphthene	0.158	J	0.571	0.107	ug/L	1		8270E	Total/NA
Dibenzofuran	1.43		0.571	0.107	ug/L	1		8270E	Total/NA
Fluorene	0.123	J	0.571	0.0948	ug/L	1		8270E	Total/NA
Acetophenone	18.7		1.14	0.624	ug/L	1		8270E	Total/NA
2,6-Dichlorophenol	0.221	J	0.571	0.118	ug/L	1		8270E	Total/NA
2-Chlorophenol	0.709		0.571	0.0756	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - DL	5.48		2.86	0.691	ug/L	5		8270E	Total/NA
Phenol - DL2	31.7		28.6	4.48	ug/L	10		8270E	Total/NA
1,4-Dioxane - DL3	234		28.6	4.45	ug/L	50		8270E	Total/NA
3 & 4 Methylphenol - DL3	47.1		28.6	6.94	ug/L	50		8270E	Total/NA
Naphthalene - DL3	26.5	J	28.6	4.72	ug/L	50		8270E	Total/NA
1,1'-Biphenyl - DL3	752		28.6	4.91	ug/L	50		8270E	Total/NA
Diphenyl ether - DL4	3390		286	45.5	ug/L	500		8270E	Total/NA

## Client Sample ID: TB-09(051524)

## Lab Sample ID: 860-74400-11

No Detections.

## Client Sample ID: MW-13

## Lab Sample ID: 860-74400-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	178		20.0	9.19	ug/L	20		8260D	Total/NA
Carbon tetrachloride	686		100	17.9	ug/L	20		8260D	Total/NA
Chloroform	166		20.0	9.28	ug/L	20		8260D	Total/NA
1,2-Dichlorobenzene	0.262	J	0.571	0.0941	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	0.357	J	0.571	0.0779	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	0.347	J	0.571	0.139	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.56	I B	1.14	0.600	ug/L	1		8270E	Total/NA
Phenol	2.22	J	2.86	0.448	ug/L	1		8270E	Total/NA
Diphenyl ether	0.938		0.571	0.0910	ug/L	1		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - DL	36.4		5.71	1.38	ug/L	10		8270E	Total/NA
1,4-Dioxane - DL2	62.5		11.4	1.78	ug/L	20		8270E	Total/NA

## Client Sample ID: MW-8

## Lab Sample ID: 860-74400-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	562		20.0	9.19	ug/L	20		8260D	Total/NA
Chlorobenzene	108		20.0	9.10	ug/L	20		8260D	Total/NA
Chloroform	895		20.0	9.28	ug/L	20		8260D	Total/NA
Cyclohexane	129		100	25.7	ug/L	20		8260D	Total/NA
Ethylbenzene	29.2		20.0	7.70	ug/L	20		8260D	Total/NA
Methylene Chloride	73.0	J	100	34.5	ug/L	20		8260D	Total/NA
o-Xylene	0.0132	J	0.0200	0.0100	mg/L	20		8260D	Total/NA
Carbon tetrachloride - DL	5700	H	500	89.6	ug/L	100		8260D	Total/NA
1,2,4-Trichlorobenzene	0.161	J	0.571	0.0766	ug/L	1		8270E	Total/NA
1,2-Dichlorobenzene	1.32		0.571	0.0941	ug/L	1		8270E	Total/NA
1,3-Dichlorobenzene	0.221	J	0.571	0.102	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	1.90		0.571	0.0779	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-8 (Continued)

## Lab Sample ID: 860-74400-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.125	J I	0.571	0.0603	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	11.3		0.571	0.139	ug/L	1		8270E	Total/NA
Benzyl alcohol	1.77	I B	1.14	0.600	ug/L	1		8270E	Total/NA
Diethyl phthalate	0.364	J	1.14	0.155	ug/L	1		8270E	Total/NA
Hexachloroethane	1.04		0.571	0.102	ug/L	1		8270E	Total/NA
Naphthalene	0.119	J I	0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol	5.48		2.86	0.448	ug/L	1		8270E	Total/NA
Diphenyl ether	0.326	J	0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.107	J I	0.571	0.0981	ug/L	1		8270E	Total/NA
2-Chlorophenol	0.392	J	0.571	0.0756	ug/L	1		8270E	Total/NA
2-Naphthylamine	0.553	J I	0.571	0.288	ug/L	1		8270E	Total/NA
1,4-Dioxane - DL	404		57.1	8.90	ug/L	100		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - DL	3070		114	27.7	ug/L	200		8270E	Total/NA

## Client Sample ID: MW-17

## Lab Sample ID: 860-74400-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	728		500	230	ug/L	500		8260D	Total/NA
Carbon tetrachloride	42200		2500	448	ug/L	500		8260D	Total/NA
Chlorobenzene	807		500	228	ug/L	500		8260D	Total/NA
Chloroform	1900		500	232	ug/L	500		8260D	Total/NA
Cyclohexane	7700		2500	643	ug/L	500		8260D	Total/NA
1,2,4-Trichlorobenzene	0.675		0.571	0.0766	ug/L	1		8270E	Total/NA
1,2-Dichlorobenzene	11.3		0.571	0.0941	ug/L	1		8270E	Total/NA
1,3-Dichlorobenzene	1.71		0.571	0.102	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	16.3		0.571	0.0779	ug/L	1		8270E	Total/NA
2,4,5-Trichlorophenol	0.145	J I	0.571	0.143	ug/L	1		8270E	Total/NA
2,4-Dinitrotoluene	0.596		0.571	0.205	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.190	J I	0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylphenol	0.294	J	0.571	0.105	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	8.14		0.571	0.139	ug/L	1		8270E	Total/NA
Bis(2-ethylhexyl) phthalate	1.03	J	1.14	0.900	ug/L	1		8270E	Total/NA
Butyl benzyl phthalate	0.543	J I	1.14	0.500	ug/L	1		8270E	Total/NA
Diethyl phthalate	0.738	J	1.14	0.155	ug/L	1		8270E	Total/NA
Hexachloroethane	13.0		0.571	0.102	ug/L	1		8270E	Total/NA
Naphthalene	0.773		0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol	2.73	J	2.86	0.448	ug/L	1		8270E	Total/NA
Acetophenone	1.89		1.14	0.624	ug/L	1		8270E	Total/NA
Diphenyl ether	0.977		0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.176	J	0.571	0.0981	ug/L	1		8270E	Total/NA
1,2,4,5-Tetrachlorobenzene	0.186	J	0.571	0.0957	ug/L	1		8270E	Total/NA
1,3-Dinitrobenzene	0.190	J I	0.571	0.0773	ug/L	1		8270E	Total/NA
2-Chlorophenol	1.30		0.571	0.0756	ug/L	1		8270E	Total/NA
2-Naphthylamine	1.58	I	0.571	0.288	ug/L	1		8270E	Total/NA
1,4-Dioxane - DL	108		28.6	4.45	ug/L	50		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - DL	4730		1140	277	ug/L	2000		8270E	Total/NA
Sulfotepp - RA	0.430	J	0.571	0.147	ug/L	1		8270E	Total/NA

## Client Sample ID: DUPE-01

## Lab Sample ID: 860-74400-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	221	J	2000	61.3	ug/L	20		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Detection Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01 (Continued)**

**Lab Sample ID: 860-74400-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	713		20.0	9.19	ug/L	20		8260D	Total/NA
Chlorobenzene	811		20.0	9.10	ug/L	20		8260D	Total/NA
Chloroform	1830		20.0	9.28	ug/L	20		8260D	Total/NA
cis-1,2-Dichloroethene	40.8		20.0	9.14	ug/L	20		8260D	Total/NA
Ethylbenzene	119		20.0	7.70	ug/L	20		8260D	Total/NA
Toluene	41.0		20.0	9.50	ug/L	20		8260D	Total/NA
Vinyl chloride	9.37	J	40.0	8.56	ug/L	20		8260D	Total/NA
Xylenes, Total	203		200	24.8	ug/L	20		8260D	Total/NA
m,p-Xylenes	0.102	J	0.200	0.0248	mg/L	20		8260D	Total/NA
o-Xylene	0.101		0.0200	0.0100	mg/L	20		8260D	Total/NA
Carbon tetrachloride - DL	57700	H	2500	448	ug/L	500		8260D	Total/NA
1,2,4-Trichlorobenzene	0.662		0.571	0.0766	ug/L	1		8270E	Total/NA
1,2-Dichlorobenzene	11.8		0.571	0.0941	ug/L	1		8270E	Total/NA
1,3-Dichlorobenzene	1.74		0.571	0.102	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	17.1		0.571	0.0779	ug/L	1		8270E	Total/NA
2,4-Dichlorophenol	0.150	J	0.571	0.140	ug/L	1		8270E	Total/NA
2,4-Dinitrotoluene	0.611		0.571	0.205	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.182	J I	0.571	0.0603	ug/L	1		8270E	Total/NA
2-Methylphenol	0.272	J	0.571	0.105	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	8.22		0.571	0.139	ug/L	1		8270E	Total/NA
Bis(2-ethylhexyl) phthalate	1.03	J	1.14	0.900	ug/L	1		8270E	Total/NA
Butyl benzyl phthalate	0.501	J I	1.14	0.500	ug/L	1		8270E	Total/NA
Diethyl phthalate	0.690	J	1.14	0.155	ug/L	1		8270E	Total/NA
Hexachloroethane	13.8		0.571	0.102	ug/L	1		8270E	Total/NA
Naphthalene	0.774		0.571	0.0944	ug/L	1		8270E	Total/NA
Phenol	2.61	J	2.86	0.448	ug/L	1		8270E	Total/NA
Acetophenone	1.87		1.14	0.624	ug/L	1		8270E	Total/NA
Diphenyl ether	0.962		0.571	0.0910	ug/L	1		8270E	Total/NA
1,1'-Biphenyl	0.138	J	0.571	0.0981	ug/L	1		8270E	Total/NA
1,2,4,5-Tetrachlorobenzene	0.167	J	0.571	0.0957	ug/L	1		8270E	Total/NA
1,3-Dinitrobenzene	0.146	J I	0.571	0.0773	ug/L	1		8270E	Total/NA
2-Chlorophenol	1.23		0.571	0.0756	ug/L	1		8270E	Total/NA
2-Naphthylamine	1.45	I	0.571	0.288	ug/L	1		8270E	Total/NA
1,4-Dioxane - DL	109		28.6	4.45	ug/L	50		8270E	Total/NA
o,o',o"-Triethylphosphorothioate - DL	4980		1140	277	ug/L	2000		8270E	Total/NA
Sulfotepp - RA	0.365	J	0.571	0.147	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-6**

**Lab Sample ID: 860-74400-1**

Date Collected: 05/15/24 08:16

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 14:33	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 14:33	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 14:33	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 14:33	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 14:33	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 14:33	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 14:33	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 14:33	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 14:33	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 14:33	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 14:33	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 14:33	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 14:33	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 14:33	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 14:33	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 14:33	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 14:33	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 14:33	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 14:33	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 14:33	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 14:33	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 14:33	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 14:33	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 14:33	1
alpha-Chlorotoluene	<2.26	U **	5.00	2.26	ug/L			05/21/24 14:33	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 14:33	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 14:33	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 14:33	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 14:33	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 14:33	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 14:33	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 14:33	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 14:33	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 14:33	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 14:33	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 14:33	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 14:33	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 14:33	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 14:33	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 14:33	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 14:33	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 14:33	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 14:33	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 14:33	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 14:33	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 14:33	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 14:33	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 14:33	1

Eurofins Houston

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-6**

**Lab Sample ID: 860-74400-1**

**Date Collected: 05/15/24 08:16**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 14:33	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 14:33	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 14:33	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 14:33	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 14:33	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 14:33	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 14:33	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 14:33	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 14:33	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 14:33	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 14:33	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 14:33	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 14:33	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 14:33	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 14:33	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 14:33	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 14:33	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 14:33	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 14:33	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 14:33	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/21/24 14:33	1
Dibromofluoromethane (Surr)	97		75 - 131		05/21/24 14:33	1
Toluene-d8 (Surr)	98		80 - 120		05/21/24 14:33	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 07:24	1
<b>1,4-Dioxane</b>	<b>0.235</b>	<b>J</b>	0.571	0.0890	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 07:24	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/23/24 07:24	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 07:24	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 07:24	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-6**  
**Date Collected: 05/15/24 08:16**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-1**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 07:24	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 07:24	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 07:24	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 07:24	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 07:24	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 07:24	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 07:24	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 07:24	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 07:24	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 07:24	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 07:24	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 07:24	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 07:24	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 07:24	1
<b>Benzyl alcohol</b>	<b>1.02</b>	<b>J B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 07:24	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 07:24	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 07:24	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 07:24	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 07:24	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 07:24	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 07:24	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 07:24	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 07:24	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 07:24	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 07:24	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 07:24	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 07:24	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 07:24	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 07:24	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 07:24	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 07:24	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 07:24	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 07:24	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 07:24	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 07:24	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 07:24	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 07:24	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 07:24	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 07:24	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 07:24	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 07:24	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 07:24	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 07:24	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 07:24	1

# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-6**  
**Date Collected: 05/15/24 08:16**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-1**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 07:24	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 07:24	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 07:24	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 07:24	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 07:24	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 07:24	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 07:24	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 07:24	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 07:24	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 07:24	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 07:24	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 07:24	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 07:24	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 07:24	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 07:24	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 07:24	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 07:24	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 07:24	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 07:24	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 07:24	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 07:24	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 07:24	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 07:24	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 07:24	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 07:24	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 07:24	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 07:24	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 07:24	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 07:24	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 07:24	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 07:24	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 07:24	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/21/24 06:26	05/23/24 07:24	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 07:24	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 07:24	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 07:24	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 07:24	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-6**

**Lab Sample ID: 860-74400-1**

**Date Collected: 05/15/24 08:16**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 07:24	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 07:24	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 07:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	121		35 - 130	05/21/24 06:26	05/23/24 07:24	1
2-Fluorobiphenyl	112		43 - 130	05/21/24 06:26	05/23/24 07:24	1
2-Fluorophenol (Surr)	88		19 - 120	05/21/24 06:26	05/23/24 07:24	1
Nitrobenzene-d5 (Surr)	121		37 - 133	05/21/24 06:26	05/23/24 07:24	1
Phenol-d5 (Surr)	64		8 - 124	05/21/24 06:26	05/23/24 07:24	1
p-Terphenyl-d14	100		47 - 130	05/21/24 06:26	05/23/24 07:24	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 20:55	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	124		35 - 130	05/21/24 06:26	05/23/24 20:55	1
2-Fluorobiphenyl	94		43 - 130	05/21/24 06:26	05/23/24 20:55	1
2-Fluorophenol (Surr)	84		19 - 120	05/21/24 06:26	05/23/24 20:55	1
Nitrobenzene-d5 (Surr)	110		37 - 133	05/21/24 06:26	05/23/24 20:55	1
Phenol-d5 (Surr)	62		8 - 124	05/21/24 06:26	05/23/24 20:55	1
p-Terphenyl-d14	93		47 - 130	05/21/24 06:26	05/23/24 20:55	1

**Client Sample ID: FB-01**

**Lab Sample ID: 860-74400-2**

**Date Collected: 05/15/24 08:16**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 12:30	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 12:30	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 12:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 12:30	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 12:30	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 12:30	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 12:30	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 12:30	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 12:30	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 12:30	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 12:30	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 12:30	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 12:30	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 12:30	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 12:30	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 12:30	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 12:30	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 12:30	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 12:30	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 12:30	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: FB-01**  
**Date Collected: 05/15/24 08:16**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-2**  
**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 12:30	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 12:30	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 12:30	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 12:30	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 12:30	1
alpha-Chlorotoluene	<2.26	U *+	5.00	2.26	ug/L			05/21/24 12:30	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 12:30	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 12:30	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 12:30	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 12:30	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 12:30	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 12:30	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 12:30	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 12:30	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 12:30	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 12:30	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 12:30	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 12:30	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 12:30	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 12:30	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 12:30	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 12:30	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 12:30	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 12:30	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 12:30	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 12:30	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 12:30	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 12:30	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 12:30	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 12:30	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 12:30	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 12:30	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 12:30	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 12:30	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 12:30	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 12:30	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 12:30	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 12:30	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 12:30	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 12:30	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 12:30	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 12:30	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 12:30	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 12:30	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 12:30	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 12:30	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 12:30	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 12:30	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 12:30	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: FB-01**  
**Date Collected: 05/15/24 08:16**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-2**  
**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/21/24 12:30	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/21/24 12:30	1
Dibromofluoromethane (Surr)	96		75 - 131		05/21/24 12:30	1
Toluene-d8 (Surr)	100		80 - 120		05/21/24 12:30	1

**Client Sample ID: MW-7**  
**Date Collected: 05/15/24 08:21**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-3**  
**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 13:32	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 13:32	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 13:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 13:32	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 13:32	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 13:32	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 13:32	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 13:32	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 13:32	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 13:32	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 13:32	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 13:32	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 13:32	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 13:32	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 13:32	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 13:32	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 13:32	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 13:32	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 13:32	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 13:32	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 13:32	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 13:32	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 13:32	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 13:32	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 13:32	1
alpha-Chlorotoluene	<2.26	U *+	5.00	2.26	ug/L			05/21/24 13:32	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 13:32	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 13:32	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 13:32	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 13:32	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 13:32	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 13:32	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 13:32	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 13:32	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 13:32	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 13:32	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 13:32	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 13:32	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 13:32	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-7**

**Lab Sample ID: 860-74400-3**

Date Collected: 05/15/24 08:21

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 13:32	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 13:32	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 13:32	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 13:32	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 13:32	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 13:32	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 13:32	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 13:32	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 13:32	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 13:32	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 13:32	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 13:32	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 13:32	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 13:32	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 13:32	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 13:32	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 13:32	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 13:32	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 13:32	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 13:32	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 13:32	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 13:32	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 13:32	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 13:32	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 13:32	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 13:32	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 13:32	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 13:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 13:32	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 13:32	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/21/24 13:32	1
Dibromofluoromethane (Surr)	97		75 - 131		05/21/24 13:32	1
Toluene-d8 (Surr)	99		80 - 120		05/21/24 13:32	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/22/24 23:08	1
<b>1,4-Dioxane</b>	<b>0.460</b>	<b>J</b>	0.571	0.0890	ug/L		05/21/24 06:26	05/22/24 23:08	1
<b>2,4-Dinitrophenol</b>	<b>0.355</b>	<b>J</b>	2.86	0.104	ug/L		05/21/24 06:26	05/22/24 23:08	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-7**

**Lab Sample ID: 860-74400-3**

Date Collected: 05/15/24 08:21

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/22/24 23:08	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/22/24 23:08	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/22/24 23:08	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/22/24 23:08	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 23:08	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/22/24 23:08	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/22/24 23:08	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/22/24 23:08	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/22/24 23:08	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/22/24 23:08	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/22/24 23:08	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/22/24 23:08	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/22/24 23:08	1
<b>Benzyl alcohol</b>	<b>0.813</b>	<b>J B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/22/24 23:08	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/22/24 23:08	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/22/24 23:08	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/22/24 23:08	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/22/24 23:08	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/22/24 23:08	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/22/24 23:08	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 23:08	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/22/24 23:08	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/22/24 23:08	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/22/24 23:08	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/22/24 23:08	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/22/24 23:08	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/22/24 23:08	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/22/24 23:08	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/22/24 23:08	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/22/24 23:08	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/22/24 23:08	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:08	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 23:08	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/22/24 23:08	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/22/24 23:08	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/22/24 23:08	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-7**

**Lab Sample ID: 860-74400-3**

**Date Collected: 05/15/24 08:21**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/22/24 23:08	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/22/24 23:08	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/22/24 23:08	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/22/24 23:08	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/22/24 23:08	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/22/24 23:08	1
<b>Diphenyl ether</b>	<b>0.746</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/22/24 23:08	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/22/24 23:08	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/22/24 23:08	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/22/24 23:08	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/22/24 23:08	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/22/24 23:08	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/22/24 23:08	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/22/24 23:08	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/22/24 23:08	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 23:08	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/22/24 23:08	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/22/24 23:08	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/22/24 23:08	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/22/24 23:08	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/22/24 23:08	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/22/24 23:08	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/22/24 23:08	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/22/24 23:08	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/22/24 23:08	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/22/24 23:08	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/22/24 23:08	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/22/24 23:08	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/22/24 23:08	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/22/24 23:08	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 23:08	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/22/24 23:08	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 23:08	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/22/24 23:08	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/22/24 23:08	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/22/24 23:08	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-7**

**Lab Sample ID: 860-74400-3**

Date Collected: 05/15/24 08:21

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/22/24 23:08	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/22/24 23:08	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/22/24 23:08	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:08	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:08	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/22/24 23:08	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/22/24 23:08	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:08	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/22/24 23:08	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/22/24 23:08	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/22/24 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	114		35 - 130	05/21/24 06:26	05/22/24 23:08	1
2-Fluorobiphenyl	106		43 - 130	05/21/24 06:26	05/22/24 23:08	1
2-Fluorophenol (Surr)	83		19 - 120	05/21/24 06:26	05/22/24 23:08	1
Nitrobenzene-d5 (Surr)	114		37 - 133	05/21/24 06:26	05/22/24 23:08	1
Phenol-d5 (Surr)	57		8 - 124	05/21/24 06:26	05/22/24 23:08	1
p-Terphenyl-d14	104		47 - 130	05/21/24 06:26	05/22/24 23:08	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o,o',o"-Triethylphosphorothioate</b>	<b>0.782</b>		0.571	0.138	ug/L		05/21/24 06:26	05/23/24 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	171	S1+	35 - 130	05/21/24 06:26	05/23/24 15:12	1
2-Fluorobiphenyl	116		43 - 130	05/21/24 06:26	05/23/24 15:12	1
2-Fluorophenol (Surr)	96		19 - 120	05/21/24 06:26	05/23/24 15:12	1
Nitrobenzene-d5 (Surr)	175	S1+	37 - 133	05/21/24 06:26	05/23/24 15:12	1
Phenol-d5 (Surr)	66		8 - 124	05/21/24 06:26	05/23/24 15:12	1
p-Terphenyl-d14	110		47 - 130	05/21/24 06:26	05/23/24 15:12	1

**Client Sample ID: MW-14**

**Lab Sample ID: 860-74400-4**

Date Collected: 05/15/24 09:22

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 13:52	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 13:52	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 13:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 13:52	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 13:52	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 13:52	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 13:52	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 13:52	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 13:52	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 13:52	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-14**

**Lab Sample ID: 860-74400-4**

**Date Collected: 05/15/24 09:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 13:52	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 13:52	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 13:52	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 13:52	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 13:52	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 13:52	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 13:52	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 13:52	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 13:52	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 13:52	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 13:52	1
<b>Acetone</b>	<b>8.26</b>	<b>J</b>	100	3.07	ug/L			05/21/24 13:52	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 13:52	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 13:52	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 13:52	1
alpha-Chlorotoluene	<2.26	U *+	5.00	2.26	ug/L			05/21/24 13:52	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 13:52	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 13:52	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 13:52	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 13:52	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 13:52	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 13:52	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 13:52	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 13:52	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 13:52	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 13:52	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 13:52	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 13:52	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 13:52	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 13:52	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 13:52	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 13:52	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 13:52	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 13:52	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 13:52	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 13:52	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 13:52	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 13:52	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 13:52	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 13:52	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 13:52	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 13:52	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 13:52	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 13:52	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 13:52	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 13:52	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 13:52	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 13:52	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 13:52	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-14**

**Lab Sample ID: 860-74400-4**

**Date Collected: 05/15/24 09:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 13:52	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 13:52	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 13:52	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 13:52	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 13:52	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 13:52	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 13:52	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 13:52	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 13:52	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 13:52	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/21/24 13:52	1
Dibromofluoromethane (Surr)	97		75 - 131		05/21/24 13:52	1
Toluene-d8 (Surr)	99		80 - 120		05/21/24 13:52	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/22/24 23:37	1
<b>2,4-Dinitrophenol</b>	<b>0.442</b>	<b>J</b>	2.86	0.104	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/22/24 23:37	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/22/24 23:37	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/22/24 23:37	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/22/24 23:37	1
<b>Acenaphthene</b>	<b>0.225</b>	<b>J</b>	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 23:37	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/22/24 23:37	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/22/24 23:37	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/22/24 23:37	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/22/24 23:37	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/22/24 23:37	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-14**

**Lab Sample ID: 860-74400-4**

**Date Collected: 05/15/24 09:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/22/24 23:37	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/22/24 23:37	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/22/24 23:37	1
<b>Benzy alcohol</b>	<b>1.16</b>	<b>B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/22/24 23:37	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/22/24 23:37	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/22/24 23:37	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/22/24 23:37	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/22/24 23:37	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/22/24 23:37	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/22/24 23:37	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 23:37	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/22/24 23:37	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/22/24 23:37	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/22/24 23:37	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/22/24 23:37	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/22/24 23:37	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/22/24 23:37	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/22/24 23:37	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/22/24 23:37	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/22/24 23:37	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/22/24 23:37	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:37	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 23:37	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/22/24 23:37	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/22/24 23:37	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/22/24 23:37	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/22/24 23:37	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/22/24 23:37	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/22/24 23:37	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/22/24 23:37	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/22/24 23:37	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/22/24 23:37	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/22/24 23:37	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/22/24 23:37	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/22/24 23:37	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/22/24 23:37	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-14**

**Lab Sample ID: 860-74400-4**

**Date Collected: 05/15/24 09:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/22/24 23:37	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/22/24 23:37	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/22/24 23:37	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/22/24 23:37	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/22/24 23:37	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 23:37	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/22/24 23:37	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/22/24 23:37	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/22/24 23:37	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/22/24 23:37	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/22/24 23:37	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/22/24 23:37	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/22/24 23:37	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/22/24 23:37	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/22/24 23:37	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/22/24 23:37	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/22/24 23:37	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/22/24 23:37	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/22/24 23:37	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/22/24 23:37	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 23:37	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/22/24 23:37	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 23:37	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/22/24 23:37	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/22/24 23:37	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/22/24 23:37	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/22/24 23:37	1
<b>o,o',o''-Triethylphosphorothioate</b>	<b>84.2</b>		11.4	2.77	ug/L		05/21/24 06:26	05/23/24 19:01	20
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/22/24 23:37	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:37	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:37	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/22/24 23:37	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/22/24 23:37	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 23:37	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/22/24 23:37	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/22/24 23:37	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/22/24 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	112		35 - 130	05/21/24 06:26	05/22/24 23:37	1
2-Fluorobiphenyl	79		43 - 130	05/21/24 06:26	05/22/24 23:37	1
2-Fluorophenol (Surr)	74		19 - 120	05/21/24 06:26	05/22/24 23:37	1
Nitrobenzene-d5 (Surr)	104		37 - 133	05/21/24 06:26	05/22/24 23:37	1
Phenol-d5 (Surr)	52		8 - 124	05/21/24 06:26	05/22/24 23:37	1
p-Terphenyl-d14	86		47 - 130	05/21/24 06:26	05/22/24 23:37	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-14**

**Date Collected: 05/15/24 09:22**

**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-4**

**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	210		11.4	1.78	ug/L		05/21/24 06:26	05/23/24 14:11	20
Diphenyl ether	26.4		11.4	1.82	ug/L		05/21/24 06:26	05/23/24 14:11	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		35 - 130				05/21/24 06:26	05/23/24 14:11	20
2-Fluorobiphenyl	89		43 - 130				05/21/24 06:26	05/23/24 14:11	20
2-Fluorophenol (Surr)	81		19 - 120				05/21/24 06:26	05/23/24 14:11	20
Nitrobenzene-d5 (Surr)	129		37 - 133				05/21/24 06:26	05/23/24 14:11	20
Phenol-d5 (Surr)	68		8 - 124				05/21/24 06:26	05/23/24 14:11	20
p-Terphenyl-d14	92		47 - 130				05/21/24 06:26	05/23/24 14:11	20

**Method: SW846 8321A - Delnav (LC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:26	1

**Client Sample ID: MW-5**

**Date Collected: 05/15/24 09:27**

**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-5**

**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 12:51	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 12:51	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 12:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 12:51	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 12:51	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 12:51	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 12:51	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 12:51	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 12:51	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 12:51	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 12:51	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 12:51	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 12:51	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 12:51	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 12:51	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 12:51	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 12:51	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 12:51	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 12:51	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 12:51	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 12:51	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 12:51	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 12:51	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 12:51	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 12:51	1
alpha-Chlorotoluene	<2.26	U **	5.00	2.26	ug/L			05/21/24 12:51	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 12:51	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 12:51	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 12:51	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-5**

**Lab Sample ID: 860-74400-5**

Date Collected: 05/15/24 09:27

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 12:51	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 12:51	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 12:51	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 12:51	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 12:51	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 12:51	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 12:51	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 12:51	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 12:51	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 12:51	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 12:51	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 12:51	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 12:51	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 12:51	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 12:51	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 12:51	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 12:51	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 12:51	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 12:51	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 12:51	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 12:51	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 12:51	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 12:51	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 12:51	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 12:51	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 12:51	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 12:51	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 12:51	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 12:51	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 12:51	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 12:51	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 12:51	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 12:51	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 12:51	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 12:51	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 12:51	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 12:51	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 12:51	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 12:51	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		05/21/24 12:51	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/21/24 12:51	1
Dibromofluoromethane (Surr)	98		75 - 131		05/21/24 12:51	1
Toluene-d8 (Surr)	97		80 - 120		05/21/24 12:51	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 00:06	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-5**

**Lab Sample ID: 860-74400-5**

Date Collected: 05/15/24 09:27

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 00:06	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/23/24 00:06	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 00:06	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 00:06	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 00:06	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 00:06	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 00:06	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 00:06	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 00:06	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 00:06	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 00:06	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 00:06	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 00:06	1
<b>Benzyl alcohol</b>	<b>0.937</b>	<b>J B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 00:06	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 00:06	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 00:06	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 00:06	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 00:06	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 00:06	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 00:06	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 00:06	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 00:06	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 00:06	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 00:06	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 00:06	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 00:06	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 00:06	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 00:06	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 00:06	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-5**  
**Date Collected: 05/15/24 09:27**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-5**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 00:06	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 00:06	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:06	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 00:06	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 00:06	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 00:06	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 00:06	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 00:06	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 00:06	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 00:06	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 00:06	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 00:06	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 00:06	1
<b>Diphenyl ether</b>	<b>0.639</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 00:06	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 00:06	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 00:06	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 00:06	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 00:06	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 00:06	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 00:06	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 00:06	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 00:06	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 00:06	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 00:06	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 00:06	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 00:06	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 00:06	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 00:06	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 00:06	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 00:06	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 00:06	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 00:06	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 00:06	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 00:06	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 00:06	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-5**  
**Date Collected: 05/15/24 09:27**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-5**  
**Matrix: Water**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 00:06	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 00:06	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 00:06	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 00:06	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 00:06	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 00:06	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 00:06	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 00:06	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 00:06	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 00:06	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:06	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:06	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 00:06	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 00:06	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:06	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 00:06	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 00:06	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	124		35 - 130	05/21/24 06:26	05/23/24 00:06	1
2-Fluorobiphenyl	92		43 - 130	05/21/24 06:26	05/23/24 00:06	1
2-Fluorophenol (Surr)	86		19 - 120	05/21/24 06:26	05/23/24 00:06	1
Nitrobenzene-d5 (Surr)	126		37 - 133	05/21/24 06:26	05/23/24 00:06	1
Phenol-d5 (Surr)	56		8 - 124	05/21/24 06:26	05/23/24 00:06	1
p-Terphenyl-d14	76		47 - 130	05/21/24 06:26	05/23/24 00:06	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	49.5		5.71	0.890	ug/L		05/21/24 06:26	05/23/24 16:06	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		35 - 130	05/21/24 06:26	05/23/24 16:06	10
2-Fluorobiphenyl	91		43 - 130	05/21/24 06:26	05/23/24 16:06	10
2-Fluorophenol (Surr)	72		19 - 120	05/21/24 06:26	05/23/24 16:06	10
Nitrobenzene-d5 (Surr)	105		37 - 133	05/21/24 06:26	05/23/24 16:06	10
Phenol-d5 (Surr)	58		8 - 124	05/21/24 06:26	05/23/24 16:06	10
p-Terphenyl-d14	71		47 - 130	05/21/24 06:26	05/23/24 16:06	10

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	3.81		0.571	0.138	ug/L		05/21/24 06:26	05/23/24 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	179	S1+	35 - 130	05/21/24 06:26	05/23/24 15:40	1
2-Fluorobiphenyl	98		43 - 130	05/21/24 06:26	05/23/24 15:40	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-5

Date Collected: 05/15/24 09:27

Date Received: 05/16/24 09:54

## Lab Sample ID: 860-74400-5

Matrix: Water

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	93		19 - 120	05/21/24 06:26	05/23/24 15:40	1
Nitrobenzene-d5 (Surr)	171	S1+	37 - 133	05/21/24 06:26	05/23/24 15:40	1
Phenol-d5 (Surr)	63		8 - 124	05/21/24 06:26	05/23/24 15:40	1
p-Terphenyl-d14	78		47 - 130	05/21/24 06:26	05/23/24 15:40	1

## Client Sample ID: MW-4

Date Collected: 05/15/24 10:15

Date Received: 05/16/24 09:54

## Lab Sample ID: 860-74400-6

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 13:11	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 13:11	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 13:11	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 13:11	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 13:11	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 13:11	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 13:11	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 13:11	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 13:11	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 13:11	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 13:11	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 13:11	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 13:11	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 13:11	1
<b>2,2,4-Trimethylpentane</b>	<b>0.566</b>	<b>J</b>	5.00	0.500	ug/L			05/21/24 13:11	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 13:11	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 13:11	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 13:11	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 13:11	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 13:11	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 13:11	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 13:11	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 13:11	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 13:11	1
alpha-Chlorotoluene	<2.26	U *+	5.00	2.26	ug/L			05/21/24 13:11	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 13:11	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 13:11	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 13:11	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 13:11	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 13:11	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 13:11	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 13:11	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 13:11	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 13:11	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 13:11	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 13:11	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 13:11	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-4**

**Lab Sample ID: 860-74400-6**

**Date Collected: 05/15/24 10:15**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 13:11	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 13:11	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 13:11	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 13:11	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 13:11	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 13:11	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 13:11	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 13:11	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 13:11	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 13:11	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 13:11	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 13:11	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 13:11	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 13:11	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 13:11	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 13:11	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 13:11	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 13:11	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 13:11	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 13:11	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 13:11	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 13:11	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 13:11	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 13:11	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 13:11	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 13:11	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 13:11	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 13:11	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 13:11	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 13:11	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 13:11	1
4-Bromofluorobenzene (Surr)	98		74 - 124		05/21/24 13:11	1
Dibromofluoromethane (Surr)	98		75 - 131		05/21/24 13:11	1
Toluene-d8 (Surr)	100		80 - 120		05/21/24 13:11	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 00:36	1
<b>1,4-Dioxane</b>	<b>2.39</b>		0.571	0.0890	ug/L		05/21/24 06:26	05/23/24 00:36	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-4**

**Lab Sample ID: 860-74400-6**

**Date Collected: 05/15/24 10:15**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 00:36	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/23/24 00:36	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 00:36	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 00:36	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 00:36	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 00:36	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 00:36	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 00:36	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 00:36	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 00:36	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 00:36	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 00:36	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 00:36	1
<b>Benzyl alcohol</b>	<b>1.03</b>	<b>J B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 00:36	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 00:36	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 00:36	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 00:36	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 00:36	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 00:36	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 00:36	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 00:36	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 00:36	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 00:36	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 00:36	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 00:36	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 00:36	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 00:36	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 00:36	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 00:36	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 00:36	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 00:36	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:36	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 00:36	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 00:36	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 00:36	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-4**  
**Date Collected: 05/15/24 10:15**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-6**  
**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 00:36	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 00:36	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 00:36	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 00:36	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 00:36	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 00:36	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 00:36	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 00:36	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 00:36	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 00:36	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 00:36	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 00:36	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 00:36	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 00:36	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 00:36	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 00:36	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 00:36	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 00:36	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 00:36	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 00:36	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 00:36	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 00:36	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 00:36	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 00:36	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 00:36	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 00:36	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 00:36	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 00:36	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 00:36	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 00:36	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 00:36	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 00:36	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 00:36	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 00:36	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 00:36	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 00:36	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-4**  
Date Collected: 05/15/24 10:15  
Date Received: 05/16/24 09:54

**Lab Sample ID: 860-74400-6**  
Matrix: Water

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 00:36	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 00:36	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>8.60</b>		2.86	0.691	ug/L		05/21/24 06:26	05/23/24 19:30	5
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 00:36	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:36	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:36	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 00:36	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 00:36	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 00:36	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 00:36	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 00:36	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 00:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	123		35 - 130				05/21/24 06:26	05/23/24 00:36	1
2-Fluorobiphenyl	100		43 - 130				05/21/24 06:26	05/23/24 00:36	1
2-Fluorophenol (Surr)	80		19 - 120				05/21/24 06:26	05/23/24 00:36	1
Nitrobenzene-d5 (Surr)	124		37 - 133				05/21/24 06:26	05/23/24 00:36	1
Phenol-d5 (Surr)	53		8 - 124				05/21/24 06:26	05/23/24 00:36	1
p-Terphenyl-d14	96		47 - 130				05/21/24 06:26	05/23/24 00:36	1

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diphenyl ether</b>	<b>39.9</b>		2.86	0.455	ug/L		05/21/24 06:26	05/23/24 14:39	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	131	S1+	35 - 130				05/21/24 06:26	05/23/24 14:39	5
2-Fluorobiphenyl	103		43 - 130				05/21/24 06:26	05/23/24 14:39	5
2-Fluorophenol (Surr)	75		19 - 120				05/21/24 06:26	05/23/24 14:39	5
Nitrobenzene-d5 (Surr)	112		37 - 133				05/21/24 06:26	05/23/24 14:39	5
Phenol-d5 (Surr)	55		8 - 124				05/21/24 06:26	05/23/24 14:39	5
p-Terphenyl-d14	88		47 - 130				05/21/24 06:26	05/23/24 14:39	5

## Method: SW846 8321A - Delnav (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:32	1

**Client Sample ID: MW-15**  
Date Collected: 05/15/24 10:26  
Date Received: 05/16/24 09:54

**Lab Sample ID: 860-74400-7**  
Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 14:13	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 14:13	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 14:13	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 14:13	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-15**

**Lab Sample ID: 860-74400-7**

**Date Collected: 05/15/24 10:26**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 14:13	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 14:13	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 14:13	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 14:13	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 14:13	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 14:13	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 14:13	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 14:13	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 14:13	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 14:13	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 14:13	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 14:13	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 14:13	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 14:13	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 14:13	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 14:13	1
<b>Acetone</b>	<b>11.2</b>	<b>J</b>	100	3.07	ug/L			05/21/24 14:13	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 14:13	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 14:13	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 14:13	1
alpha-Chlorotoluene	<2.26	U **	5.00	2.26	ug/L			05/21/24 14:13	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 14:13	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 14:13	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 14:13	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 14:13	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 14:13	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 14:13	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 14:13	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 14:13	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 14:13	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 14:13	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 14:13	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 14:13	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 14:13	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 14:13	1
<b>Cumene (isopropylbenzene)</b>	<b>0.858</b>	<b>J</b>	1.00	0.592	ug/L			05/21/24 14:13	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 14:13	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 14:13	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 14:13	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 14:13	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 14:13	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 14:13	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 14:13	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 14:13	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 14:13	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 14:13	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 14:13	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 14:13	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 14:13	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-15**

**Lab Sample ID: 860-74400-7**

Date Collected: 05/15/24 10:26

Matrix: Water

Date Received: 05/16/24 09:54

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 14:13	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 14:13	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 14:13	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 14:13	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 14:13	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 14:13	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 14:13	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 14:13	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 14:13	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 14:13	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 14:13	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 14:13	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 14:13	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 14:13	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144					05/21/24 14:13	1
4-Bromofluorobenzene (Surr)	97		74 - 124					05/21/24 14:13	1
Dibromofluoromethane (Surr)	97		75 - 131					05/21/24 14:13	1
Toluene-d8 (Surr)	100		80 - 120					05/21/24 14:13	1

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144					05/22/24 18:57	10
4-Bromofluorobenzene (Surr)	98		74 - 124					05/22/24 18:57	10
Dibromofluoromethane (Surr)	98		75 - 131					05/22/24 18:57	10
Toluene-d8 (Surr)	99		80 - 120					05/22/24 18:57	10

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 01:05	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/23/24 01:05	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 01:05	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-15**

**Lab Sample ID: 860-74400-7**

**Date Collected: 05/15/24 10:26**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 01:05	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 01:05	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 01:05	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 01:05	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 01:05	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 01:05	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 01:05	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 01:05	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 01:05	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 01:05	1
<b>Benzyl alcohol</b>	<b>1.72</b>	<b>B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 01:05	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 01:05	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 01:05	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 01:05	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 01:05	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 01:05	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 01:05	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 01:05	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 01:05	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 01:05	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 01:05	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 01:05	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 01:05	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 01:05	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 01:05	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 01:05	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 01:05	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 01:05	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:05	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 01:05	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 01:05	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 01:05	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 01:05	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 01:05	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 01:05	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 01:05	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 01:05	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 01:05	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 01:05	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-15**

**Lab Sample ID: 860-74400-7**

Date Collected: 05/15/24 10:26

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diphenyl ether</b>	<b>4.84</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 01:05	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 01:05	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 01:05	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 01:05	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 01:05	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 01:05	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 01:05	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 01:05	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 01:05	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 01:05	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 01:05	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 01:05	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 01:05	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 01:05	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 01:05	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 01:05	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 01:05	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 01:05	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 01:05	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 01:05	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 01:05	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 01:05	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 01:05	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 01:05	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 01:05	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 01:05	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 01:05	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 01:05	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 01:05	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 01:05	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 01:05	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>33.1</b>		5.71	1.38	ug/L		05/21/24 06:26	05/23/24 16:09	10
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 01:05	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:05	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:05	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-15**  
**Date Collected: 05/15/24 10:26**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-7**  
**Matrix: Water**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 01:05	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 01:05	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:05	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 01:05	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 01:05	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	128		35 - 130	05/21/24 06:26	05/23/24 01:05	1
2,4,6-Tribromophenol (Surr)	134	S1+	35 - 130	05/21/24 06:26	05/23/24 16:09	10
2-Fluorobiphenyl	90		43 - 130	05/21/24 06:26	05/23/24 01:05	1
2-Fluorobiphenyl	87		43 - 130	05/21/24 06:26	05/23/24 16:09	10
2-Fluorophenol (Surr)	95		19 - 120	05/21/24 06:26	05/23/24 01:05	1
2-Fluorophenol (Surr)	97		19 - 120	05/21/24 06:26	05/23/24 16:09	10
Nitrobenzene-d5 (Surr)	122		37 - 133	05/21/24 06:26	05/23/24 01:05	1
Nitrobenzene-d5 (Surr)	151	S1+	37 - 133	05/21/24 06:26	05/23/24 16:09	10
Phenol-d5 (Surr)	72		8 - 124	05/21/24 06:26	05/23/24 01:05	1
Phenol-d5 (Surr)	78		8 - 124	05/21/24 06:26	05/23/24 16:09	10
p-Terphenyl-d14	97		47 - 130	05/21/24 06:26	05/23/24 01:05	1
p-Terphenyl-d14	89		47 - 130	05/21/24 06:26	05/23/24 16:09	10

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1120		57.1	8.90	ug/L		05/21/24 06:26	05/23/24 16:35	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		35 - 130	05/21/24 06:26	05/23/24 16:35	100
2-Fluorobiphenyl	145	S1+	43 - 130	05/21/24 06:26	05/23/24 16:35	100
2-Fluorophenol (Surr)	130	S1+	19 - 120	05/21/24 06:26	05/23/24 16:35	100
Nitrobenzene-d5 (Surr)	172	S1+	37 - 133	05/21/24 06:26	05/23/24 16:35	100
Phenol-d5 (Surr)	132	S1+	8 - 124	05/21/24 06:26	05/23/24 16:35	100
p-Terphenyl-d14	152	S1+	47 - 130	05/21/24 06:26	05/23/24 16:35	100

## Method: SW846 8321A - Delnav (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:38	1

**Client Sample ID: MW-16**  
**Date Collected: 05/15/24 11:22**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-8**  
**Matrix: Water**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<12.9	U	20.0	12.9	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,1,1-Trichloroethane	<11.7	U	100	11.7	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,1,2,2-Tetrachloroethane	<9.40	U	20.0	9.40	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,1,2-Trichloro-1,2,2-trifluoroethane	<22.2	U	200	22.2	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,1,2-Trichloroethane	<8.22	U	20.0	8.22	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,1-Dichloroethane	<12.7	U	20.0	12.7	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,1-Dichloroethene	<14.8	U	20.0	14.8	ug/L		05/21/24 14:54	05/21/24 14:54	20
1,2,3-Trichloropropane	<9.40	U	20.0	9.40	ug/L		05/21/24 14:54	05/21/24 14:54	20

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-16**

**Lab Sample ID: 860-74400-8**

**Date Collected: 05/15/24 11:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<8.34	U	20.0	8.34	ug/L			05/21/24 14:54	20
1,2-Dibromo-3-Chloropropane	<13.4	U	100	13.4	ug/L			05/21/24 14:54	20
1,2-Dibromoethane	<20.0	U	100	20.0	ug/L			05/21/24 14:54	20
1,2-Dichloroethane	<7.44	U	20.0	7.44	ug/L			05/21/24 14:54	20
1,2-Dichloropropane	<11.1	U	100	11.1	ug/L			05/21/24 14:54	20
1,3,5-Trimethylbenzene	<8.22	U	20.0	8.22	ug/L			05/21/24 14:54	20
1,3-Butadiene	<11.4	U	20.0	11.4	ug/L			05/21/24 14:54	20
2,2,4-Trimethylpentane	<10.0	U	100	10.0	ug/L			05/21/24 14:54	20
2-Butanone (MEK)	<166	U	1000	166	ug/L			05/21/24 14:54	20
2-Hexanone (MBK)	<149	U	1000	149	ug/L			05/21/24 14:54	20
2-Propanol	<105	U	200	105	ug/L			05/21/24 14:54	20
3-Chloropropene (Allyl Chloride)	<11.9	U	100	11.9	ug/L			05/21/24 14:54	20
4-Methyl-2-pentanone	<150	U	1000	150	ug/L			05/21/24 14:54	20
Acetone	<61.3	U	2000	61.3	ug/L			05/21/24 14:54	20
Acetonitrile	<292	U	2000	292	ug/L			05/21/24 14:54	20
Acrolein	<222	U	1000	222	ug/L			05/21/24 14:54	20
Acrylonitrile	<286	U	1000	286	ug/L			05/21/24 14:54	20
alpha-Chlorotoluene	<45.1	U **	100	45.1	ug/L			05/21/24 14:54	20
Benzene	<9.19	U	20.0	9.19	ug/L			05/21/24 14:54	20
Bromodichloromethane	<11.0	U	20.0	11.0	ug/L			05/21/24 14:54	20
Bromoform	<12.7	U	100	12.7	ug/L			05/21/24 14:54	20
Bromomethane	<28.4	U	100	28.4	ug/L			05/21/24 14:54	20
Carbon disulfide	<33.0	U	100	33.0	ug/L			05/21/24 14:54	20
Carbon tetrachloride	<17.9	U	100	17.9	ug/L			05/21/24 14:54	20
Chlorobenzene	<9.10	U	20.0	9.10	ug/L			05/21/24 14:54	20
Chlorodibromomethane	<10.9	U	100	10.9	ug/L			05/21/24 14:54	20
Chloroethane	<39.7	U	200	39.7	ug/L			05/21/24 14:54	20
Chloroform	<9.28	U	20.0	9.28	ug/L			05/21/24 14:54	20
Chloromethane	<40.7	U	200	40.7	ug/L			05/21/24 14:54	20
Chloroprene	<12.0	U	100	12.0	ug/L			05/21/24 14:54	20
cis-1,2-Dichloroethene	<9.14	U	20.0	9.14	ug/L			05/21/24 14:54	20
cis-1,3-Dichloropropene	<21.3	U	100	21.3	ug/L			05/21/24 14:54	20
Cumene (isopropylbenzene)	<11.8	U	20.0	11.8	ug/L			05/21/24 14:54	20
Cyclohexane	<25.7	U	100	25.7	ug/L			05/21/24 14:54	20
Dibromomethane	<7.14	U	20.0	7.14	ug/L			05/21/24 14:54	20
Dichlorodifluoromethane	<15.7	U	20.0	15.7	ug/L			05/21/24 14:54	20
Ethyl methacrylate	<22.4	U	100	22.4	ug/L			05/21/24 14:54	20
Ethylbenzene	<7.70	U	20.0	7.70	ug/L			05/21/24 14:54	20
Hexane	<10.3	U	100	10.3	ug/L			05/21/24 14:54	20
Iodomethane	<130	U	400	130	ug/L			05/21/24 14:54	20
Isobutanol	<342	U	1000	342	ug/L			05/21/24 14:54	20
Methacrylonitrile	<54.3	U	200	54.3	ug/L			05/21/24 14:54	20
Methyl methacrylate	<45.0	U	200	45.0	ug/L			05/21/24 14:54	20
Methyl tert-butyl ether	<27.8	U	100	27.8	ug/L			05/21/24 14:54	20
Methylene Chloride	<34.5	U	100	34.5	ug/L			05/21/24 14:54	20
Propionitrile	<66.8	U	200	66.8	ug/L			05/21/24 14:54	20
Propylbenzene	<8.58	U	20.0	8.58	ug/L			05/21/24 14:54	20
Styrene	<12.4	U	20.0	12.4	ug/L			05/21/24 14:54	20
Tetrachloroethene	<13.1	U	20.0	13.1	ug/L			05/21/24 14:54	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-16**

**Lab Sample ID: 860-74400-8**

**Date Collected: 05/15/24 11:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<36.7	U	200	36.7	ug/L			05/21/24 14:54	20
Toluene	<9.50	U	20.0	9.50	ug/L			05/21/24 14:54	20
trans-1,2-Dichloroethene	<7.36	U	20.0	7.36	ug/L			05/21/24 14:54	20
trans-1,3-Dichloropropene	<25.3	U	100	25.3	ug/L			05/21/24 14:54	20
trans-1,4-Dichloro-2-butene	<27.0	U	200	27.0	ug/L			05/21/24 14:54	20
Trichloroethene	<30.0	U	100	30.0	ug/L			05/21/24 14:54	20
Trichlorofluoromethane	<11.2	U	20.0	11.2	ug/L			05/21/24 14:54	20
Vinyl acetate	<42.8	U	400	42.8	ug/L			05/21/24 14:54	20
Vinyl chloride	<8.56	U	40.0	8.56	ug/L			05/21/24 14:54	20
Xylenes, Total	<24.8	U	200	24.8	ug/L			05/21/24 14:54	20
m,p-Xylenes	<0.0248	U	0.200	0.0248	mg/L			05/21/24 14:54	20
o-Xylene	<0.0100	U	0.0200	0.0100	mg/L			05/21/24 14:54	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	100		63 - 144					05/21/24 14:54	20
4-Bromofluorobenzene (Surr)	98		74 - 124					05/21/24 14:54	20
Dibromofluoromethane (Surr)	96		75 - 131					05/21/24 14:54	20
Toluene-d8 (Surr)	99		80 - 120					05/21/24 14:54	20

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 01:34	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/23/24 01:34	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 01:34	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 01:34	1
<b>Acenaphthene</b>	<b>0.442</b>	<b>J</b>	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 01:34	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 01:34	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 01:34	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 01:34	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-16**

**Lab Sample ID: 860-74400-8**

**Date Collected: 05/15/24 11:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 01:34	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 01:34	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 01:34	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 01:34	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 01:34	1
<b>Benzy alcohol</b>	<b>1.20</b>	<b>B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 01:34	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 01:34	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 01:34	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 01:34	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 01:34	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 01:34	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 01:34	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 01:34	1
<b>Diethyl phthalate</b>	<b>0.357</b>	<b>J</b>	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 01:34	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 01:34	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 01:34	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 01:34	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 01:34	1
<b>Fluorene</b>	<b>0.196</b>	<b>J</b>	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 01:34	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 01:34	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 01:34	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 01:34	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 01:34	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:34	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 01:34	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 01:34	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 01:34	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 01:34	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 01:34	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 01:34	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 01:34	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 01:34	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 01:34	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 01:34	1
<b>Diphenyl ether</b>	<b>6.20</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 01:34	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 01:34	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 01:34	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 01:34	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-16**

**Lab Sample ID: 860-74400-8**

**Date Collected: 05/15/24 11:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 01:34	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 01:34	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 01:34	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 01:34	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 01:34	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 01:34	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 01:34	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 01:34	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 01:34	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 01:34	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 01:34	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 01:34	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 01:34	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 01:34	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 01:34	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 01:34	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 01:34	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 01:34	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 01:34	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 01:34	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 01:34	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 01:34	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 01:34	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 01:34	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 01:34	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 01:34	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 01:34	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 01:34	1
<b>o,o',o"-Triethylphosphorothioate</b>	<b>910</b>		57.1	13.8	ug/L		05/21/24 06:26	05/23/24 19:58	100
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 01:34	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:34	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:34	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 01:34	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 01:34	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 01:34	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 01:34	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 01:34	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	133	S1+	35 - 130	05/21/24 06:26	05/23/24 01:34	1
2-Fluorobiphenyl	94		43 - 130	05/21/24 06:26	05/23/24 01:34	1
2-Fluorophenol (Surr)	88		19 - 120	05/21/24 06:26	05/23/24 01:34	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-16**

**Lab Sample ID: 860-74400-8**

Date Collected: 05/15/24 11:22

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	124		37 - 133	05/21/24 06:26	05/23/24 01:34	1
Phenol-d5 (Surr)	65		8 - 124	05/21/24 06:26	05/23/24 01:34	1
p-Terphenyl-d14	101		47 - 130	05/21/24 06:26	05/23/24 01:34	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	296		57.1	8.90	ug/L		05/21/24 06:26	05/23/24 15:08	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	161	S1+	35 - 130	05/21/24 06:26	05/23/24 15:08	100
2-Fluorobiphenyl	148	S1+	43 - 130	05/21/24 06:26	05/23/24 15:08	100
2-Fluorophenol (Surr)	154	S1+	19 - 120	05/21/24 06:26	05/23/24 15:08	100
Nitrobenzene-d5 (Surr)	162	S1+	37 - 133	05/21/24 06:26	05/23/24 15:08	100
Phenol-d5 (Surr)	148	S1+	8 - 124	05/21/24 06:26	05/23/24 15:08	100
p-Terphenyl-d14	137	S1+	47 - 130	05/21/24 06:26	05/23/24 15:08	100

**Method: SW846 8321A - Delnav (LC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:44	1

**Client Sample ID: MW-23**

**Lab Sample ID: 860-74400-9**

Date Collected: 05/15/24 11:42

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			05/21/24 15:15	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			05/21/24 15:15	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			05/21/24 15:15	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			05/21/24 15:15	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			05/21/24 15:15	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			05/21/24 15:15	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			05/21/24 15:15	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			05/21/24 15:15	50
1,2,4-Trimethylbenzene	<20.9	U	50.0	20.9	ug/L			05/21/24 15:15	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			05/21/24 15:15	50
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			05/21/24 15:15	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			05/21/24 15:15	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			05/21/24 15:15	50
1,3,5-Trimethylbenzene	<20.6	U	50.0	20.6	ug/L			05/21/24 15:15	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			05/21/24 15:15	50
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			05/21/24 15:15	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			05/21/24 15:15	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			05/21/24 15:15	50
2-Propanol	<261	U	500	261	ug/L			05/21/24 15:15	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			05/21/24 15:15	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			05/21/24 15:15	50
Acetone	<153	U	5000	153	ug/L			05/21/24 15:15	50
Acetonitrile	<730	U	5000	730	ug/L			05/21/24 15:15	50
Acrolein	<556	U	2500	556	ug/L			05/21/24 15:15	50

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-23**

**Lab Sample ID: 860-74400-9**

**Date Collected: 05/15/24 11:42**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	<716	U	2500	716	ug/L			05/21/24 15:15	50
alpha-Chlorotoluene	<113	U *	250	113	ug/L			05/21/24 15:15	50
<b>Benzene</b>	<b>4770</b>		50.0	23.0	ug/L			05/21/24 15:15	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			05/21/24 15:15	50
Bromoform	<31.7	U	250	31.7	ug/L			05/21/24 15:15	50
Bromomethane	<71.0	U	250	71.0	ug/L			05/21/24 15:15	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			05/21/24 15:15	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			05/21/24 15:15	50
<b>Chlorobenzene</b>	<b>143</b>		50.0	22.8	ug/L			05/21/24 15:15	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			05/21/24 15:15	50
Chloroethane	<99.2	U	500	99.2	ug/L			05/21/24 15:15	50
<b>Chloroform</b>	<b>29.4 J</b>		50.0	23.2	ug/L			05/21/24 15:15	50
Chloromethane	<102	U	500	102	ug/L			05/21/24 15:15	50
Chloroprene	<29.9	U	250	29.9	ug/L			05/21/24 15:15	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			05/21/24 15:15	50
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			05/21/24 15:15	50
Cumene (isopropylbenzene)	<29.6	U	50.0	29.6	ug/L			05/21/24 15:15	50
Cyclohexane	<64.3	U	250	64.3	ug/L			05/21/24 15:15	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			05/21/24 15:15	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			05/21/24 15:15	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			05/21/24 15:15	50
Ethylbenzene	<19.3	U	50.0	19.3	ug/L			05/21/24 15:15	50
Hexane	<25.9	U	250	25.9	ug/L			05/21/24 15:15	50
Iodomethane	<326	U	1000	326	ug/L			05/21/24 15:15	50
Isobutanol	<855	U	2500	855	ug/L			05/21/24 15:15	50
Methacrylonitrile	<136	U	500	136	ug/L			05/21/24 15:15	50
Methyl methacrylate	<113	U	500	113	ug/L			05/21/24 15:15	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			05/21/24 15:15	50
Methylene Chloride	<86.3	U	250	86.3	ug/L			05/21/24 15:15	50
Propionitrile	<167	U	500	167	ug/L			05/21/24 15:15	50
Propylbenzene	<21.5	U	50.0	21.5	ug/L			05/21/24 15:15	50
Styrene	<31.0	U	50.0	31.0	ug/L			05/21/24 15:15	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			05/21/24 15:15	50
Tetrahydrofuran	<91.7	U	500	91.7	ug/L			05/21/24 15:15	50
<b>Toluene</b>	<b>731</b>		50.0	23.8	ug/L			05/21/24 15:15	50
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			05/21/24 15:15	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			05/21/24 15:15	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			05/21/24 15:15	50
Trichloroethene	<75.0	U	250	75.0	ug/L			05/21/24 15:15	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			05/21/24 15:15	50
Vinyl acetate	<107	U	1000	107	ug/L			05/21/24 15:15	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			05/21/24 15:15	50
Xylenes, Total	<62.0	U	500	62.0	ug/L			05/21/24 15:15	50
m,p-Xylenes	<0.0620	U	0.500	0.0620	mg/L			05/21/24 15:15	50
o-Xylene	<0.0251	U	0.0500	0.0251	mg/L			05/21/24 15:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 15:15	50
4-Bromofluorobenzene (Surr)	97		74 - 124		05/21/24 15:15	50
Dibromofluoromethane (Surr)	95		75 - 131		05/21/24 15:15	50

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-23**

**Lab Sample ID: 860-74400-9**

Date Collected: 05/15/24 11:42

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		05/21/24 15:15	50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>1,2-Dichlorobenzene</b>	<b>1.66</b>		0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>1,3-Dichlorobenzene</b>	<b>0.136</b>	J	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>1,4-Dichlorobenzene</b>	<b>2.01</b>		0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 02:03	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>2,4,5-Trichlorophenol</b>	<b>0.268</b>	J	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 02:03	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>2,4-Dichlorophenol</b>	<b>0.276</b>	J	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>2,4-Dimethylphenol</b>	<b>9.97</b>		0.571	0.192	ug/L		05/21/24 06:26	05/23/24 02:03	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 02:03	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 02:03	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>2-Methylphenol</b>	<b>9.65</b>		0.571	0.105	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>3 &amp; 4 Methylphenol</b>	<b>18.2</b>		0.571	0.139	ug/L		05/21/24 06:26	05/23/24 02:03	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 02:03	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Acenaphthene</b>	<b>0.729</b>		0.571	0.107	ug/L		05/21/24 06:26	05/23/24 02:03	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 02:03	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Anthracene</b>	<b>0.0982</b>	J	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 02:03	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 02:03	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 02:03	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 02:03	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 02:03	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 02:03	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 02:03	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 02:03	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 02:03	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 02:03	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 02:03	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 02:03	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Dibenzofuran</b>	<b>1.26</b>		0.571	0.107	ug/L		05/21/24 06:26	05/23/24 02:03	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 02:03	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 02:03	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 02:03	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-23**

**Lab Sample ID: 860-74400-9**

**Date Collected: 05/15/24 11:42**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Fluoranthene</b>	<b>0.220</b>	<b>J</b>	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Fluorene</b>	<b>1.32</b>		0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 02:03	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 02:03	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 02:03	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 02:03	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 02:03	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:03	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Naphthalene</b>	<b>16.2</b>		0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 02:03	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 02:03	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Phenanthrene</b>	<b>1.78</b>		0.571	0.134	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Pyrene</b>	<b>0.0970</b>	<b>J</b>	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 02:03	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 02:03	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>Acetophenone</b>	<b>4.57</b>		1.14	0.624	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 02:03	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 02:03	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 02:03	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 02:03	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 02:03	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 02:03	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>2,6-Dichlorophenol</b>	<b>0.179</b>	<b>J</b>	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 02:03	1
<b>2-Chlorophenol</b>	<b>0.781</b>		0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 02:03	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 02:03	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 02:03	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 02:03	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 02:03	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 02:03	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 02:03	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 02:03	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 02:03	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 02:03	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 02:03	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 02:03	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 02:03	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 02:03	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 02:03	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 02:03	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 02:03	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-23**

**Lab Sample ID: 860-74400-9**

**Date Collected: 05/15/24 11:42**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 02:03	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 02:03	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 02:03	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 02:03	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 02:03	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 02:03	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 02:03	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 02:03	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 02:03	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 02:03	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 02:03	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 02:03	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:03	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:03	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 02:03	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 02:03	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:03	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 02:03	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 02:03	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	149	S1+	35 - 130	05/21/24 06:26	05/23/24 02:03	1
2-Fluorobiphenyl	89		43 - 130	05/21/24 06:26	05/23/24 02:03	1
2-Fluorophenol (Surr)	83		19 - 120	05/21/24 06:26	05/23/24 02:03	1
Nitrobenzene-d5 (Surr)	129		37 - 133	05/21/24 06:26	05/23/24 02:03	1
Phenol-d5 (Surr)	58		8 - 124	05/21/24 06:26	05/23/24 02:03	1
p-Terphenyl-d14	89		47 - 130	05/21/24 06:26	05/23/24 02:03	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o,o',o''-Triethylphosphorothioate</b>	<b>4.78</b>		2.86	0.691	ug/L		05/21/24 06:26	05/23/24 16:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	168	S1+	35 - 130	05/21/24 06:26	05/23/24 16:38	5
2-Fluorobiphenyl	95		43 - 130	05/21/24 06:26	05/23/24 16:38	5
2-Fluorophenol (Surr)	82		19 - 120	05/21/24 06:26	05/23/24 16:38	5
Nitrobenzene-d5 (Surr)	149	S1+	37 - 133	05/21/24 06:26	05/23/24 16:38	5
Phenol-d5 (Surr)	53		8 - 124	05/21/24 06:26	05/23/24 16:38	5
p-Terphenyl-d14	99		47 - 130	05/21/24 06:26	05/23/24 16:38	5

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phenol</b>	<b>40.3</b>		28.6	4.48	ug/L		05/21/24 06:26	05/24/24 05:54	10

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-23**

**Lab Sample ID: 860-74400-9**

**Date Collected: 05/15/24 11:42**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/21/24 06:26	05/24/24 05:54	10
2-Fluorobiphenyl	93		43 - 130	05/21/24 06:26	05/24/24 05:54	10
2-Fluorophenol (Surr)	80		19 - 120	05/21/24 06:26	05/24/24 05:54	10
Nitrobenzene-d5 (Surr)	115		37 - 133	05/21/24 06:26	05/24/24 05:54	10
Phenol-d5 (Surr)	58		8 - 124	05/21/24 06:26	05/24/24 05:54	10
p-Terphenyl-d14	101		47 - 130	05/21/24 06:26	05/24/24 05:54	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	157		28.6	4.45	ug/L		05/21/24 06:26	05/23/24 17:04	50
1,1'-Biphenyl	336		28.6	4.91	ug/L		05/21/24 06:26	05/23/24 17:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	33	S1-	35 - 130	05/21/24 06:26	05/23/24 17:04	50
2-Fluorobiphenyl	124		43 - 130	05/21/24 06:26	05/23/24 17:04	50
2-Fluorophenol (Surr)	117		19 - 120	05/21/24 06:26	05/23/24 17:04	50
Nitrobenzene-d5 (Surr)	147	S1+	37 - 133	05/21/24 06:26	05/23/24 17:04	50
Phenol-d5 (Surr)	95		8 - 124	05/21/24 06:26	05/23/24 17:04	50
p-Terphenyl-d14	113		47 - 130	05/21/24 06:26	05/23/24 17:04	50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	1390		286	45.5	ug/L		05/21/24 06:26	05/24/24 06:22	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/21/24 06:26	05/24/24 06:22	500
2-Fluorobiphenyl	0	S1-	43 - 130	05/21/24 06:26	05/24/24 06:22	500
2-Fluorophenol (Surr)	0	S1-	19 - 120	05/21/24 06:26	05/24/24 06:22	500
Nitrobenzene-d5 (Surr)	0	S1-	37 - 133	05/21/24 06:26	05/24/24 06:22	500
Phenol-d5 (Surr)	0	S1-	8 - 124	05/21/24 06:26	05/24/24 06:22	500
p-Terphenyl-d14	0	S1-	47 - 130	05/21/24 06:26	05/24/24 06:22	500

**Client Sample ID: MW-21**

**Lab Sample ID: 860-74400-10**

**Date Collected: 05/15/24 13:27**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			05/21/24 15:35	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			05/21/24 15:35	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			05/21/24 15:35	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			05/21/24 15:35	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			05/21/24 15:35	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			05/21/24 15:35	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			05/21/24 15:35	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			05/21/24 15:35	50
1,2,4-Trimethylbenzene	<20.9	U	50.0	20.9	ug/L			05/21/24 15:35	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			05/21/24 15:35	50
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			05/21/24 15:35	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			05/21/24 15:35	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			05/21/24 15:35	50

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-21**

**Lab Sample ID: 860-74400-10**

Date Collected: 05/15/24 13:27

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<20.6	U	50.0	20.6	ug/L			05/21/24 15:35	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			05/21/24 15:35	50
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			05/21/24 15:35	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			05/21/24 15:35	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			05/21/24 15:35	50
2-Propanol	<261	U	500	261	ug/L			05/21/24 15:35	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			05/21/24 15:35	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			05/21/24 15:35	50
Acetone	<153	U	5000	153	ug/L			05/21/24 15:35	50
Acetonitrile	<730	U	5000	730	ug/L			05/21/24 15:35	50
Acrolein	<556	U	2500	556	ug/L			05/21/24 15:35	50
Acrylonitrile	<716	U	2500	716	ug/L			05/21/24 15:35	50
alpha-Chlorotoluene	<113	U *+	250	113	ug/L			05/21/24 15:35	50
<b>Benzene</b>	<b>5250</b>		50.0	23.0	ug/L			05/21/24 15:35	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			05/21/24 15:35	50
Bromoform	<31.7	U	250	31.7	ug/L			05/21/24 15:35	50
Bromomethane	<71.0	U	250	71.0	ug/L			05/21/24 15:35	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			05/21/24 15:35	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			05/21/24 15:35	50
<b>Chlorobenzene</b>	<b>191</b>		50.0	22.8	ug/L			05/21/24 15:35	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			05/21/24 15:35	50
Chloroethane	<99.2	U	500	99.2	ug/L			05/21/24 15:35	50
<b>Chloroform</b>	<b>2100</b>		50.0	23.2	ug/L			05/21/24 15:35	50
Chloromethane	<102	U	500	102	ug/L			05/21/24 15:35	50
Chloroprene	<29.9	U	250	29.9	ug/L			05/21/24 15:35	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			05/21/24 15:35	50
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			05/21/24 15:35	50
<b>Cumene (isopropylbenzene)</b>	<b>84.1</b>		50.0	29.6	ug/L			05/21/24 15:35	50
Cyclohexane	<64.3	U	250	64.3	ug/L			05/21/24 15:35	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			05/21/24 15:35	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			05/21/24 15:35	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			05/21/24 15:35	50
Ethylbenzene	<19.3	U	50.0	19.3	ug/L			05/21/24 15:35	50
Hexane	<25.9	U	250	25.9	ug/L			05/21/24 15:35	50
Iodomethane	<326	U	1000	326	ug/L			05/21/24 15:35	50
Isobutanol	<855	U	2500	855	ug/L			05/21/24 15:35	50
Methacrylonitrile	<136	U	500	136	ug/L			05/21/24 15:35	50
Methyl methacrylate	<113	U	500	113	ug/L			05/21/24 15:35	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			05/21/24 15:35	50
<b>Methylene Chloride</b>	<b>112</b>	<b>J</b>	250	86.3	ug/L			05/21/24 15:35	50
Propionitrile	<167	U	500	167	ug/L			05/21/24 15:35	50
Propylbenzene	<21.5	U	50.0	21.5	ug/L			05/21/24 15:35	50
Styrene	<31.0	U	50.0	31.0	ug/L			05/21/24 15:35	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			05/21/24 15:35	50
Tetrahydrofuran	<91.7	U	500	91.7	ug/L			05/21/24 15:35	50
<b>Toluene</b>	<b>5590</b>		50.0	23.8	ug/L			05/21/24 15:35	50
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			05/21/24 15:35	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			05/21/24 15:35	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			05/21/24 15:35	50

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-21**

**Lab Sample ID: 860-74400-10**

Date Collected: 05/15/24 13:27

Matrix: Water

Date Received: 05/16/24 09:54

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<75.0	U	250	75.0	ug/L			05/21/24 15:35	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			05/21/24 15:35	50
Vinyl acetate	<107	U	1000	107	ug/L			05/21/24 15:35	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			05/21/24 15:35	50
Xylenes, Total	<62.0	U	500	62.0	ug/L			05/21/24 15:35	50
m,p-Xylenes	<0.0620	U	0.500	0.0620	mg/L			05/21/24 15:35	50
o-Xylene	<0.0251	U	0.0500	0.0251	mg/L			05/21/24 15:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		05/21/24 15:35	50
4-Bromofluorobenzene (Surr)	96		74 - 124		05/21/24 15:35	50
Dibromofluoromethane (Surr)	97		75 - 131		05/21/24 15:35	50
Toluene-d8 (Surr)	99		80 - 120		05/21/24 15:35	50

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>1,2-Dichlorobenzene</b>	<b>2.36</b>		0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>1,3-Dichlorobenzene</b>	<b>0.221</b>	J	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>1,4-Dichlorobenzene</b>	<b>2.98</b>		0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 02:32	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2,4,5-Trichlorophenol</b>	<b>0.275</b>	J	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 02:32	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2,4-Dichlorophenol</b>	<b>0.223</b>	J	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2,4-Dimethylphenol</b>	<b>11.3</b>		0.571	0.192	ug/L		05/21/24 06:26	05/23/24 02:32	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 02:32	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 02:32	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2-Methylnaphthalene</b>	<b>0.841</b>		0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2-Methylphenol</b>	<b>18.3</b>		0.571	0.105	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 02:32	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 02:32	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>Acenaphthene</b>	<b>0.158</b>	J	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 02:32	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 02:32	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 02:32	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 02:32	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 02:32	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 02:32	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 02:32	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 02:32	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 02:32	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 02:32	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-21**

**Lab Sample ID: 860-74400-10**

**Date Collected: 05/15/24 13:27**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 02:32	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 02:32	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 02:32	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 02:32	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 02:32	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>Dibenzofuran</b>	<b>1.43</b>		0.571	0.107	ug/L		05/21/24 06:26	05/23/24 02:32	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 02:32	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 02:32	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 02:32	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 02:32	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>Fluorene</b>	<b>0.123</b>	<b>J</b>	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 02:32	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 02:32	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 02:32	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 02:32	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 02:32	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:32	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 02:32	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 02:32	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 02:32	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 02:32	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 02:32	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 02:32	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>Acetophenone</b>	<b>18.7</b>		1.14	0.624	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 02:32	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 02:32	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 02:32	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 02:32	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 02:32	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 02:32	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2,6-Dichlorophenol</b>	<b>0.221</b>	<b>J</b>	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 02:32	1
<b>2-Chlorophenol</b>	<b>0.709</b>		0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 02:32	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 02:32	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 02:32	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 02:32	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 02:32	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 02:32	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 02:32	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 02:32	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-21**

**Lab Sample ID: 860-74400-10**

**Date Collected: 05/15/24 13:27**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 02:32	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 02:32	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 02:32	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 02:32	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 02:32	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 02:32	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 02:32	1
Dinoseb	<0.570	U *	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 02:32	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 02:32	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 02:32	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 02:32	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 02:32	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 02:32	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 02:32	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 02:32	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 02:32	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 02:32	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 02:32	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 02:32	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 02:32	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 02:32	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:32	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:32	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 02:32	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 02:32	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 02:32	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 02:32	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 02:32	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	155	S1+	35 - 130	05/21/24 06:26	05/23/24 02:32	1
2-Fluorobiphenyl	92		43 - 130	05/21/24 06:26	05/23/24 02:32	1
2-Fluorophenol (Surr)	85		19 - 120	05/21/24 06:26	05/23/24 02:32	1
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133	05/21/24 06:26	05/23/24 02:32	1
Phenol-d5 (Surr)	62		8 - 124	05/21/24 06:26	05/23/24 02:32	1
p-Terphenyl-d14	88		47 - 130	05/21/24 06:26	05/23/24 02:32	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o,o',o"-Triethylphosphorothioate</b>	<b>5.48</b>		2.86	0.691	ug/L		05/21/24 06:26	05/23/24 17:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	154	S1+	35 - 130	05/21/24 06:26	05/23/24 17:07	5
2-Fluorobiphenyl	84		43 - 130	05/21/24 06:26	05/23/24 17:07	5

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-21**

**Date Collected: 05/15/24 13:27**

**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-10**

**Matrix: Water**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	93		19 - 120	05/21/24 06:26	05/23/24 17:07	5
Nitrobenzene-d5 (Surr)	173	S1+	37 - 133	05/21/24 06:26	05/23/24 17:07	5
Phenol-d5 (Surr)	72		8 - 124	05/21/24 06:26	05/23/24 17:07	5
p-Terphenyl-d14	97		47 - 130	05/21/24 06:26	05/23/24 17:07	5

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	31.7		28.6	4.48	ug/L		05/21/24 06:26	05/24/24 06:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	137	S1+	35 - 130	05/21/24 06:26	05/24/24 06:51	10
2-Fluorobiphenyl	78		43 - 130	05/21/24 06:26	05/24/24 06:51	10
2-Fluorophenol (Surr)	79		19 - 120	05/21/24 06:26	05/24/24 06:51	10
Nitrobenzene-d5 (Surr)	111		37 - 133	05/21/24 06:26	05/24/24 06:51	10
Phenol-d5 (Surr)	67		8 - 124	05/21/24 06:26	05/24/24 06:51	10
p-Terphenyl-d14	89		47 - 130	05/21/24 06:26	05/24/24 06:51	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	234		28.6	4.45	ug/L		05/21/24 06:26	05/23/24 17:33	50
3 & 4 Methylphenol	47.1		28.6	6.94	ug/L		05/21/24 06:26	05/23/24 17:33	50
Naphthalene	26.5	J	28.6	4.72	ug/L		05/21/24 06:26	05/23/24 17:33	50
1,1'-Biphenyl	752		28.6	4.91	ug/L		05/21/24 06:26	05/23/24 17:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		35 - 130	05/21/24 06:26	05/23/24 17:33	50
2-Fluorobiphenyl	136	S1+	43 - 130	05/21/24 06:26	05/23/24 17:33	50
2-Fluorophenol (Surr)	112		19 - 120	05/21/24 06:26	05/23/24 17:33	50
Nitrobenzene-d5 (Surr)	173	S1+	37 - 133	05/21/24 06:26	05/23/24 17:33	50
Phenol-d5 (Surr)	101		8 - 124	05/21/24 06:26	05/23/24 17:33	50
p-Terphenyl-d14	137	S1+	47 - 130	05/21/24 06:26	05/23/24 17:33	50

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	3390		286	45.5	ug/L		05/21/24 06:26	05/24/24 07:19	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/21/24 06:26	05/24/24 07:19	500
2-Fluorobiphenyl	0	S1-	43 - 130	05/21/24 06:26	05/24/24 07:19	500
2-Fluorophenol (Surr)	0	S1-	19 - 120	05/21/24 06:26	05/24/24 07:19	500
Nitrobenzene-d5 (Surr)	0	S1-	37 - 133	05/21/24 06:26	05/24/24 07:19	500
Phenol-d5 (Surr)	0	S1-	8 - 124	05/21/24 06:26	05/24/24 07:19	500
p-Terphenyl-d14	0	S1-	47 - 130	05/21/24 06:26	05/24/24 07:19	500

**Client Sample ID: TB-09(051524)**

**Date Collected: 05/15/24 00:00**

**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-11**

**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 12:10	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: TB-09(051524)**

**Lab Sample ID: 860-74400-11**

**Date Collected: 05/15/24 00:00**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 12:10	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 12:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 12:10	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 12:10	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 12:10	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 12:10	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 12:10	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 12:10	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 12:10	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 12:10	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 12:10	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 12:10	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 12:10	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 12:10	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 12:10	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 12:10	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 12:10	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 12:10	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 12:10	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 12:10	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 12:10	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 12:10	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 12:10	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 12:10	1
alpha-Chlorotoluene	<2.26	U **	5.00	2.26	ug/L			05/21/24 12:10	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 12:10	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 12:10	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 12:10	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 12:10	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 12:10	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 12:10	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 12:10	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 12:10	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 12:10	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 12:10	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 12:10	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 12:10	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 12:10	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 12:10	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 12:10	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 12:10	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 12:10	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 12:10	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 12:10	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 12:10	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 12:10	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 12:10	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 12:10	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 12:10	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: TB-09(051524)**

**Lab Sample ID: 860-74400-11**

**Date Collected: 05/15/24 00:00**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 12:10	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 12:10	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 12:10	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 12:10	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 12:10	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 12:10	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 12:10	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 12:10	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 12:10	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 12:10	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 12:10	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 12:10	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 12:10	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 12:10	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 12:10	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 12:10	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 12:10	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 12:10	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		05/21/24 12:10	1
4-Bromofluorobenzene (Surr)	97		74 - 124		05/21/24 12:10	1
Dibromofluoromethane (Surr)	98		75 - 131		05/21/24 12:10	1
Toluene-d8 (Surr)	99		80 - 120		05/21/24 12:10	1

**Client Sample ID: MW-13**

**Lab Sample ID: 860-74400-12**

**Date Collected: 05/15/24 13:49**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<12.9	U	20.0	12.9	ug/L			05/21/24 16:16	20
1,1,1-Trichloroethane	<11.7	U	100	11.7	ug/L			05/21/24 16:16	20
1,1,1,2-Tetrachloroethane	<9.40	U	20.0	9.40	ug/L			05/21/24 16:16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	<22.2	U	200	22.2	ug/L			05/21/24 16:16	20
1,1,2-Trichloroethane	<8.22	U	20.0	8.22	ug/L			05/21/24 16:16	20
1,1-Dichloroethane	<12.7	U	20.0	12.7	ug/L			05/21/24 16:16	20
1,1-Dichloroethene	<14.8	U	20.0	14.8	ug/L			05/21/24 16:16	20
1,2,3-Trichloropropane	<9.40	U	20.0	9.40	ug/L			05/21/24 16:16	20
1,2,4-Trimethylbenzene	<8.34	U	20.0	8.34	ug/L			05/21/24 16:16	20
1,2-Dibromo-3-Chloropropane	<13.4	U	100	13.4	ug/L			05/21/24 16:16	20
1,2-Dibromoethane	<20.0	U	100	20.0	ug/L			05/21/24 16:16	20
1,2-Dichloroethane	<7.44	U	20.0	7.44	ug/L			05/21/24 16:16	20
1,2-Dichloropropane	<11.1	U	100	11.1	ug/L			05/21/24 16:16	20
1,3,5-Trimethylbenzene	<8.22	U	20.0	8.22	ug/L			05/21/24 16:16	20
1,3-Butadiene	<11.4	U	20.0	11.4	ug/L			05/21/24 16:16	20
2,2,4-Trimethylpentane	<10.0	U	100	10.0	ug/L			05/21/24 16:16	20
2-Butanone (MEK)	<166	U	1000	166	ug/L			05/21/24 16:16	20
2-Hexanone (MBK)	<149	U	1000	149	ug/L			05/21/24 16:16	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-13**

**Lab Sample ID: 860-74400-12**

**Date Collected: 05/15/24 13:49**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<105	U	200	105	ug/L			05/21/24 16:16	20
3-Chloropropene (Allyl Chloride)	<11.9	U	100	11.9	ug/L			05/21/24 16:16	20
4-Methyl-2-pentanone	<150	U	1000	150	ug/L			05/21/24 16:16	20
Acetone	<61.3	U	2000	61.3	ug/L			05/21/24 16:16	20
Acetonitrile	<292	U	2000	292	ug/L			05/21/24 16:16	20
Acrolein	<222	U	1000	222	ug/L			05/21/24 16:16	20
Acrylonitrile	<286	U	1000	286	ug/L			05/21/24 16:16	20
alpha-Chlorotoluene	<45.1	U *+	100	45.1	ug/L			05/21/24 16:16	20
<b>Benzene</b>	<b>178</b>		20.0	9.19	ug/L			05/21/24 16:16	20
Bromodichloromethane	<11.0	U	20.0	11.0	ug/L			05/21/24 16:16	20
Bromoform	<12.7	U	100	12.7	ug/L			05/21/24 16:16	20
Bromomethane	<28.4	U	100	28.4	ug/L			05/21/24 16:16	20
Carbon disulfide	<33.0	U	100	33.0	ug/L			05/21/24 16:16	20
<b>Carbon tetrachloride</b>	<b>686</b>		100	17.9	ug/L			05/21/24 16:16	20
Chlorobenzene	<9.10	U	20.0	9.10	ug/L			05/21/24 16:16	20
Chlorodibromomethane	<10.9	U	100	10.9	ug/L			05/21/24 16:16	20
Chloroethane	<39.7	U	200	39.7	ug/L			05/21/24 16:16	20
<b>Chloroform</b>	<b>166</b>		20.0	9.28	ug/L			05/21/24 16:16	20
Chloromethane	<40.7	U	200	40.7	ug/L			05/21/24 16:16	20
Chloroprene	<12.0	U	100	12.0	ug/L			05/21/24 16:16	20
cis-1,2-Dichloroethene	<9.14	U	20.0	9.14	ug/L			05/21/24 16:16	20
cis-1,3-Dichloropropene	<21.3	U	100	21.3	ug/L			05/21/24 16:16	20
Cumene (isopropylbenzene)	<11.8	U	20.0	11.8	ug/L			05/21/24 16:16	20
Cyclohexane	<25.7	U	100	25.7	ug/L			05/21/24 16:16	20
Dibromomethane	<7.14	U	20.0	7.14	ug/L			05/21/24 16:16	20
Dichlorodifluoromethane	<15.7	U	20.0	15.7	ug/L			05/21/24 16:16	20
Ethyl methacrylate	<22.4	U	100	22.4	ug/L			05/21/24 16:16	20
Ethylbenzene	<7.70	U	20.0	7.70	ug/L			05/21/24 16:16	20
Hexane	<10.3	U	100	10.3	ug/L			05/21/24 16:16	20
Iodomethane	<130	U	400	130	ug/L			05/21/24 16:16	20
Isobutanol	<342	U	1000	342	ug/L			05/21/24 16:16	20
Methacrylonitrile	<54.3	U	200	54.3	ug/L			05/21/24 16:16	20
Methyl methacrylate	<45.0	U	200	45.0	ug/L			05/21/24 16:16	20
Methyl tert-butyl ether	<27.8	U	100	27.8	ug/L			05/21/24 16:16	20
Methylene Chloride	<34.5	U	100	34.5	ug/L			05/21/24 16:16	20
Propionitrile	<66.8	U	200	66.8	ug/L			05/21/24 16:16	20
Propylbenzene	<8.58	U	20.0	8.58	ug/L			05/21/24 16:16	20
Styrene	<12.4	U	20.0	12.4	ug/L			05/21/24 16:16	20
Tetrachloroethene	<13.1	U	20.0	13.1	ug/L			05/21/24 16:16	20
Tetrahydrofuran	<36.7	U	200	36.7	ug/L			05/21/24 16:16	20
Toluene	<9.50	U	20.0	9.50	ug/L			05/21/24 16:16	20
trans-1,2-Dichloroethene	<7.36	U	20.0	7.36	ug/L			05/21/24 16:16	20
trans-1,3-Dichloropropene	<25.3	U	100	25.3	ug/L			05/21/24 16:16	20
trans-1,4-Dichloro-2-butene	<27.0	U	200	27.0	ug/L			05/21/24 16:16	20
Trichloroethene	<30.0	U	100	30.0	ug/L			05/21/24 16:16	20
Trichlorofluoromethane	<11.2	U	20.0	11.2	ug/L			05/21/24 16:16	20
Vinyl acetate	<42.8	U	400	42.8	ug/L			05/21/24 16:16	20
Vinyl chloride	<8.56	U	40.0	8.56	ug/L			05/21/24 16:16	20
Xylenes, Total	<24.8	U	200	24.8	ug/L			05/21/24 16:16	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-13**

**Lab Sample ID: 860-74400-12**

**Date Collected: 05/15/24 13:49**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.0248	U	0.200	0.0248	mg/L			05/21/24 16:16	20
o-Xylene	<0.0100	U	0.0200	0.0100	mg/L			05/21/24 16:16	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				05/21/24 16:16	05/21/24 16:16	20
4-Bromofluorobenzene (Surr)	98		74 - 124				05/21/24 16:16	05/21/24 16:16	20
Dibromofluoromethane (Surr)	96		75 - 131				05/21/24 16:16	05/21/24 16:16	20
Toluene-d8 (Surr)	98		80 - 120				05/21/24 16:16	05/21/24 16:16	20

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 03:01	1
<b>1,2-Dichlorobenzene</b>	<b>0.262</b>	<b>J</b>	0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 03:01	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 03:01	1
<b>1,4-Dichlorobenzene</b>	<b>0.357</b>	<b>J</b>	0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Nitroaniline	<0.149	U *-	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 03:01	1
<b>3 &amp; 4 Methylphenol</b>	<b>0.347</b>	<b>J</b>	0.571	0.139	ug/L		05/21/24 06:26	05/23/24 03:01	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 03:01	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 03:01	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 03:01	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 03:01	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 03:01	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 03:01	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 03:01	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 03:01	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 03:01	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 03:01	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 03:01	1
<b>Benzyl alcohol</b>	<b>1.56</b>	<b>I B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 03:01	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 03:01	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 03:01	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 03:01	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 03:01	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-13**

**Lab Sample ID: 860-74400-12**

**Date Collected: 05/15/24 13:49**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 03:01	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 03:01	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 03:01	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 03:01	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 03:01	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 03:01	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 03:01	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 03:01	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 03:01	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 03:01	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 03:01	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 03:01	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 03:01	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:01	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 03:01	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 03:01	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 03:01	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 03:01	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 03:01	1
<b>Phenol</b>	<b>2.22</b>	<b>J</b>	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 03:01	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 03:01	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 03:01	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 03:01	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 03:01	1
<b>Diphenyl ether</b>	<b>0.938</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 03:01	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 03:01	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 03:01	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 03:01	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 03:01	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 03:01	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 03:01	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 03:01	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 03:01	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 03:01	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 03:01	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 03:01	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 03:01	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 03:01	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 03:01	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-13**

**Lab Sample ID: 860-74400-12**

**Date Collected: 05/15/24 13:49**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 03:01	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 03:01	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 03:01	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 03:01	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 03:01	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 03:01	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 03:01	1
Dinoseb	<0.570	U *+	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 03:01	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 03:01	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 03:01	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 03:01	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 03:01	1
Hexachloropropene	<0.300	U *-	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 03:01	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 03:01	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 03:01	1
Isosafrole Peak 2	<0.241	U *-	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 03:01	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 03:01	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 03:01	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 03:01	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 03:01	1
p-Dimethylamino azobenzene	<0.0238	U *-	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 03:01	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:01	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:01	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 03:01	1
p-Phenylene diamine	<0.500	U *-	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 03:01	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:01	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 03:01	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 03:01	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	144	S1+	35 - 130	05/21/24 06:26	05/23/24 03:01	1
2-Fluorobiphenyl	109		43 - 130	05/21/24 06:26	05/23/24 03:01	1
2-Fluorophenol (Surr)	86		19 - 120	05/21/24 06:26	05/23/24 03:01	1
Nitrobenzene-d5 (Surr)	138	S1+	37 - 133	05/21/24 06:26	05/23/24 03:01	1
Phenol-d5 (Surr)	60		8 - 124	05/21/24 06:26	05/23/24 03:01	1
p-Terphenyl-d14	94		47 - 130	05/21/24 06:26	05/23/24 03:01	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o,o',o"-Triethylphosphorothioate</b>	<b>36.4</b>		5.71	1.38	ug/L		05/21/24 06:26	05/23/24 17:35	10

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>62.5</b>		11.4	1.78	ug/L		05/21/24 06:26	05/23/24 18:02	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-13**

**Date Collected: 05/15/24 13:49**

**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-12**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	122		35 - 130	05/21/24 06:26	05/23/24 18:02	20
2-Fluorobiphenyl	113		43 - 130	05/21/24 06:26	05/23/24 18:02	20
2-Fluorophenol (Surr)	95		19 - 120	05/21/24 06:26	05/23/24 18:02	20
Nitrobenzene-d5 (Surr)	131		37 - 133	05/21/24 06:26	05/23/24 18:02	20
Phenol-d5 (Surr)	85		8 - 124	05/21/24 06:26	05/23/24 18:02	20
p-Terphenyl-d14	104		47 - 130	05/21/24 06:26	05/23/24 18:02	20

**Method: SW846 8321A - Delnav (LC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:49	1

**Client Sample ID: MW-8**

**Date Collected: 05/15/24 14:22**

**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-13**

**Matrix: Water**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<12.9	U	20.0	12.9	ug/L			05/21/24 16:37	20
1,1,1-Trichloroethane	<11.7	U	100	11.7	ug/L			05/21/24 16:37	20
1,1,2,2-Tetrachloroethane	<9.40	U	20.0	9.40	ug/L			05/21/24 16:37	20
1,1,2-Trichloro-1,2,2-trifluoroethane	<22.2	U	200	22.2	ug/L			05/21/24 16:37	20
1,1,2-Trichloroethane	<8.22	U	20.0	8.22	ug/L			05/21/24 16:37	20
1,1-Dichloroethane	<12.7	U	20.0	12.7	ug/L			05/21/24 16:37	20
1,1-Dichloroethene	<14.8	U	20.0	14.8	ug/L			05/21/24 16:37	20
1,2,3-Trichloropropane	<9.40	U	20.0	9.40	ug/L			05/21/24 16:37	20
1,2,4-Trimethylbenzene	<8.34	U	20.0	8.34	ug/L			05/21/24 16:37	20
1,2-Dibromo-3-Chloropropane	<13.4	U	100	13.4	ug/L			05/21/24 16:37	20
1,2-Dibromoethane	<20.0	U	100	20.0	ug/L			05/21/24 16:37	20
1,2-Dichloroethane	<7.44	U	20.0	7.44	ug/L			05/21/24 16:37	20
1,2-Dichloropropane	<11.1	U	100	11.1	ug/L			05/21/24 16:37	20
1,3,5-Trimethylbenzene	<8.22	U	20.0	8.22	ug/L			05/21/24 16:37	20
1,3-Butadiene	<11.4	U	20.0	11.4	ug/L			05/21/24 16:37	20
2,2,4-Trimethylpentane	<10.0	U	100	10.0	ug/L			05/21/24 16:37	20
2-Butanone (MEK)	<166	U	1000	166	ug/L			05/21/24 16:37	20
2-Hexanone (MBK)	<149	U	1000	149	ug/L			05/21/24 16:37	20
2-Propanol	<105	U	200	105	ug/L			05/21/24 16:37	20
3-Chloropropene (Allyl Chloride)	<11.9	U	100	11.9	ug/L			05/21/24 16:37	20
4-Methyl-2-pentanone	<150	U	1000	150	ug/L			05/21/24 16:37	20
Acetone	<61.3	U	2000	61.3	ug/L			05/21/24 16:37	20
Acetonitrile	<292	U	2000	292	ug/L			05/21/24 16:37	20
Acrolein	<222	U	1000	222	ug/L			05/21/24 16:37	20
Acrylonitrile	<286	U	1000	286	ug/L			05/21/24 16:37	20
alpha-Chlorotoluene	<45.1	U *	100	45.1	ug/L			05/21/24 16:37	20
<b>Benzene</b>	<b>562</b>		20.0	9.19	ug/L			05/21/24 16:37	20
Bromodichloromethane	<11.0	U	20.0	11.0	ug/L			05/21/24 16:37	20
Bromoform	<12.7	U	100	12.7	ug/L			05/21/24 16:37	20
Bromomethane	<28.4	U	100	28.4	ug/L			05/21/24 16:37	20
Carbon disulfide	<33.0	U	100	33.0	ug/L			05/21/24 16:37	20
<b>Chlorobenzene</b>	<b>108</b>		20.0	9.10	ug/L			05/21/24 16:37	20
Chlorodibromomethane	<10.9	U	100	10.9	ug/L			05/21/24 16:37	20
Chloroethane	<39.7	U	200	39.7	ug/L			05/21/24 16:37	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-8**

**Lab Sample ID: 860-74400-13**

Date Collected: 05/15/24 14:22

Matrix: Water

Date Received: 05/16/24 09:54

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloroform</b>	<b>895</b>		20.0	9.28	ug/L			05/21/24 16:37	20
Chloromethane	<40.7	U	200	40.7	ug/L			05/21/24 16:37	20
Chloroprene	<12.0	U	100	12.0	ug/L			05/21/24 16:37	20
cis-1,2-Dichloroethene	<9.14	U	20.0	9.14	ug/L			05/21/24 16:37	20
cis-1,3-Dichloropropene	<21.3	U	100	21.3	ug/L			05/21/24 16:37	20
Cumene (isopropylbenzene)	<11.8	U	20.0	11.8	ug/L			05/21/24 16:37	20
<b>Cyclohexane</b>	<b>129</b>		100	25.7	ug/L			05/21/24 16:37	20
Dibromomethane	<7.14	U	20.0	7.14	ug/L			05/21/24 16:37	20
Dichlorodifluoromethane	<15.7	U	20.0	15.7	ug/L			05/21/24 16:37	20
Ethyl methacrylate	<22.4	U	100	22.4	ug/L			05/21/24 16:37	20
<b>Ethylbenzene</b>	<b>29.2</b>		20.0	7.70	ug/L			05/21/24 16:37	20
Hexane	<10.3	U	100	10.3	ug/L			05/21/24 16:37	20
Iodomethane	<130	U	400	130	ug/L			05/21/24 16:37	20
Isobutanol	<342	U	1000	342	ug/L			05/21/24 16:37	20
Methacrylonitrile	<54.3	U	200	54.3	ug/L			05/21/24 16:37	20
Methyl methacrylate	<45.0	U	200	45.0	ug/L			05/21/24 16:37	20
Methyl tert-butyl ether	<27.8	U	100	27.8	ug/L			05/21/24 16:37	20
<b>Methylene Chloride</b>	<b>73.0</b>	<b>J</b>	100	34.5	ug/L			05/21/24 16:37	20
Propionitrile	<66.8	U	200	66.8	ug/L			05/21/24 16:37	20
Propylbenzene	<8.58	U	20.0	8.58	ug/L			05/21/24 16:37	20
Styrene	<12.4	U	20.0	12.4	ug/L			05/21/24 16:37	20
Tetrachloroethene	<13.1	U	20.0	13.1	ug/L			05/21/24 16:37	20
Tetrahydrofuran	<36.7	U	200	36.7	ug/L			05/21/24 16:37	20
Toluene	<9.50	U	20.0	9.50	ug/L			05/21/24 16:37	20
trans-1,2-Dichloroethene	<7.36	U	20.0	7.36	ug/L			05/21/24 16:37	20
trans-1,3-Dichloropropene	<25.3	U	100	25.3	ug/L			05/21/24 16:37	20
trans-1,4-Dichloro-2-butene	<27.0	U	200	27.0	ug/L			05/21/24 16:37	20
Trichloroethene	<30.0	U	100	30.0	ug/L			05/21/24 16:37	20
Trichlorofluoromethane	<11.2	U	20.0	11.2	ug/L			05/21/24 16:37	20
Vinyl acetate	<42.8	U	400	42.8	ug/L			05/21/24 16:37	20
Vinyl chloride	<8.56	U	40.0	8.56	ug/L			05/21/24 16:37	20
Xylenes, Total	<24.8	U	200	24.8	ug/L			05/21/24 16:37	20
m,p-Xylenes	<0.0248	U	0.200	0.0248	mg/L			05/21/24 16:37	20
<b>o-Xylene</b>	<b>0.0132</b>	<b>J</b>	0.0200	0.0100	mg/L			05/21/24 16:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/21/24 16:37	20
4-Bromofluorobenzene (Surr)	97		74 - 124		05/21/24 16:37	20
Dibromofluoromethane (Surr)	99		75 - 131		05/21/24 16:37	20
Toluene-d8 (Surr)	99		80 - 120		05/21/24 16:37	20

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Carbon tetrachloride</b>	<b>5700</b>	<b>H</b>	500	89.6	ug/L			05/23/24 12:22	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		63 - 144		05/23/24 12:22	100
4-Bromofluorobenzene (Surr)	115		74 - 124		05/23/24 12:22	100
Dibromofluoromethane (Surr)	116		75 - 131		05/23/24 12:22	100
Toluene-d8 (Surr)	105		80 - 120		05/23/24 12:22	100

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-8**

**Lab Sample ID: 860-74400-13**

Date Collected: 05/15/24 14:22

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trichlorobenzene</b>	<b>0.161</b>	<b>J</b>	0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>1,2-Dichlorobenzene</b>	<b>1.32</b>		0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>1,3-Dichlorobenzene</b>	<b>0.221</b>	<b>J</b>	0.571	0.102	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>1,4-Dichlorobenzene</b>	<b>1.90</b>		0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>2-Methylnaphthalene</b>	<b>0.125</b>	<b>J I</b>	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Nitroaniline	<0.149	U *-	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>3 &amp; 4 Methylphenol</b>	<b>11.3</b>		0.571	0.139	ug/L		05/21/24 06:26	05/23/24 03:31	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 03:31	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Nitroaniline	<0.109	U *-	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 03:31	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 03:31	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 03:31	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 03:31	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 03:31	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 03:31	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 03:31	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 03:31	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 03:31	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>Benzyl alcohol</b>	<b>1.77</b>	<b>I B</b>	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 03:31	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 03:31	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 03:31	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 03:31	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 03:31	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 03:31	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 03:31	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>Diethyl phthalate</b>	<b>0.364</b>	<b>J</b>	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 03:31	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 03:31	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 03:31	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 03:31	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 03:31	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 03:31	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 03:31	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-8**

**Lab Sample ID: 860-74400-13**

Date Collected: 05/15/24 14:22

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 03:31	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>Hexachloroethane</b>	<b>1.04</b>		0.571	0.102	ug/L		05/21/24 06:26	05/23/24 03:31	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:31	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>Naphthalene</b>	<b>0.119</b>	<b>J I</b>	0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 03:31	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 03:31	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 03:31	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>Phenol</b>	<b>5.48</b>		2.86	0.448	ug/L		05/21/24 06:26	05/23/24 03:31	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 03:31	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 03:31	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 03:31	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>Diphenyl ether</b>	<b>0.326</b>	<b>J</b>	0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>1,1'-Biphenyl</b>	<b>0.107</b>	<b>J I</b>	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 03:31	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 03:31	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 03:31	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 03:31	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 03:31	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 03:31	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>2-Chlorophenol</b>	<b>0.392</b>	<b>J</b>	0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 03:31	1
<b>2-Naphthylamine</b>	<b>0.553</b>	<b>J I</b>	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 03:31	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 03:31	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 03:31	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 03:31	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 03:31	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 03:31	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 03:31	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 03:31	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 03:31	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 03:31	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 03:31	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 03:31	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 03:31	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 03:31	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 03:31	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 03:31	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 03:31	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 03:31	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-8**

**Lab Sample ID: 860-74400-13**

**Date Collected: 05/15/24 14:22**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 03:31	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 03:31	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 03:31	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 03:31	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 03:31	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 03:31	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 03:31	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 03:31	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 03:31	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 03:31	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 03:31	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:31	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:31	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 03:31	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 03:31	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 03:31	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 03:31	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/23/24 03:31	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	147	S1+	35 - 130	05/21/24 06:26	05/23/24 03:31	1
2-Fluorobiphenyl	107		43 - 130	05/21/24 06:26	05/23/24 03:31	1
2-Fluorophenol (Surr)	89		19 - 120	05/21/24 06:26	05/23/24 03:31	1
Nitrobenzene-d5 (Surr)	129		37 - 133	05/21/24 06:26	05/23/24 03:31	1
Phenol-d5 (Surr)	64		8 - 124	05/21/24 06:26	05/23/24 03:31	1
p-Terphenyl-d14	94		47 - 130	05/21/24 06:26	05/23/24 03:31	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	404		57.1	8.90	ug/L		05/21/24 06:26	05/23/24 15:37	100
o,o',o"-Triethylphosphorothioate	3070		114	27.7	ug/L		05/21/24 06:26	05/23/24 20:27	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	230	S1+	35 - 130	05/21/24 06:26	05/23/24 15:37	100
2-Fluorobiphenyl	215	S1+	43 - 130	05/21/24 06:26	05/23/24 15:37	100
2-Fluorophenol (Surr)	163	S1+	19 - 120	05/21/24 06:26	05/23/24 15:37	100
Nitrobenzene-d5 (Surr)	270	S1+	37 - 133	05/21/24 06:26	05/23/24 15:37	100
Phenol-d5 (Surr)	182	S1+	8 - 124	05/21/24 06:26	05/23/24 15:37	100
p-Terphenyl-d14	125		47 - 130	05/21/24 06:26	05/23/24 15:37	100

**Method: SW846 8321A - Delnav (LC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:55	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 860-74400-14**

**Date Collected: 05/15/24 14:34**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<322	U	500	322	ug/L			05/21/24 16:57	500
1,1,1-Trichloroethane	<293	U	2500	293	ug/L			05/21/24 16:57	500
1,1,2,2-Tetrachloroethane	<235	U	500	235	ug/L			05/21/24 16:57	500
1,1,2-Trichloro-1,2,2-trifluoroethane	<555	U	5000	555	ug/L			05/21/24 16:57	500
1,1,2-Trichloroethane	<206	U	500	206	ug/L			05/21/24 16:57	500
1,1-Dichloroethane	<318	U	500	318	ug/L			05/21/24 16:57	500
1,1-Dichloroethene	<369	U	500	369	ug/L			05/21/24 16:57	500
1,2,3-Trichloropropane	<235	U	500	235	ug/L			05/21/24 16:57	500
1,2,4-Trimethylbenzene	<209	U	500	209	ug/L			05/21/24 16:57	500
1,2-Dibromo-3-Chloropropane	<336	U	2500	336	ug/L			05/21/24 16:57	500
1,2-Dibromoethane	<500	U	2500	500	ug/L			05/21/24 16:57	500
1,2-Dichloroethane	<186	U	500	186	ug/L			05/21/24 16:57	500
1,2-Dichloropropane	<278	U	2500	278	ug/L			05/21/24 16:57	500
1,3,5-Trimethylbenzene	<206	U	500	206	ug/L			05/21/24 16:57	500
1,3-Butadiene	<284	U	500	284	ug/L			05/21/24 16:57	500
2,2,4-Trimethylpentane	<250	U	2500	250	ug/L			05/21/24 16:57	500
2-Butanone (MEK)	<4140	U	25000	4140	ug/L			05/21/24 16:57	500
2-Hexanone (MBK)	<3720	U	25000	3720	ug/L			05/21/24 16:57	500
2-Propanol	<2610	U	5000	2610	ug/L			05/21/24 16:57	500
3-Chloropropene (Allyl Chloride)	<299	U	2500	299	ug/L			05/21/24 16:57	500
4-Methyl-2-pentanone	<3750	U	25000	3750	ug/L			05/21/24 16:57	500
Acetone	<1530	U	50000	1530	ug/L			05/21/24 16:57	500
Acetonitrile	<7300	U	50000	7300	ug/L			05/21/24 16:57	500
Acrolein	<5560	U	25000	5560	ug/L			05/21/24 16:57	500
Acrylonitrile	<7160	U	25000	7160	ug/L			05/21/24 16:57	500
alpha-Chlorotoluene	<1130	U **	2500	1130	ug/L			05/21/24 16:57	500
<b>Benzene</b>	<b>728</b>		500	230	ug/L			05/21/24 16:57	500
Bromodichloromethane	<276	U	500	276	ug/L			05/21/24 16:57	500
Bromoform	<317	U	2500	317	ug/L			05/21/24 16:57	500
Bromomethane	<710	U	2500	710	ug/L			05/21/24 16:57	500
Carbon disulfide	<825	U	2500	825	ug/L			05/21/24 16:57	500
<b>Carbon tetrachloride</b>	<b>42200</b>		2500	448	ug/L			05/21/24 16:57	500
<b>Chlorobenzene</b>	<b>807</b>		500	228	ug/L			05/21/24 16:57	500
Chlorodibromomethane	<274	U	2500	274	ug/L			05/21/24 16:57	500
Chloroethane	<992	U	5000	992	ug/L			05/21/24 16:57	500
<b>Chloroform</b>	<b>1900</b>		500	232	ug/L			05/21/24 16:57	500
Chloromethane	<1020	U	5000	1020	ug/L			05/21/24 16:57	500
Chloroprene	<299	U	2500	299	ug/L			05/21/24 16:57	500
cis-1,2-Dichloroethene	<229	U	500	229	ug/L			05/21/24 16:57	500
cis-1,3-Dichloropropene	<534	U	2500	534	ug/L			05/21/24 16:57	500
Cumene (isopropylbenzene)	<296	U	500	296	ug/L			05/21/24 16:57	500
<b>Cyclohexane</b>	<b>7700</b>		2500	643	ug/L			05/21/24 16:57	500
Dibromomethane	<179	U	500	179	ug/L			05/21/24 16:57	500
Dichlorodifluoromethane	<393	U	500	393	ug/L			05/21/24 16:57	500
Ethyl methacrylate	<559	U	2500	559	ug/L			05/21/24 16:57	500
Ethylbenzene	<193	U	500	193	ug/L			05/21/24 16:57	500
Hexane	<259	U	2500	259	ug/L			05/21/24 16:57	500
Iodomethane	<3260	U	10000	3260	ug/L			05/21/24 16:57	500
Isobutanol	<8550	U	25000	8550	ug/L			05/21/24 16:57	500

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 860-74400-14**

**Date Collected: 05/15/24 14:34**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<1360	U	5000	1360	ug/L			05/21/24 16:57	500
Methyl methacrylate	<1130	U	5000	1130	ug/L			05/21/24 16:57	500
Methyl tert-butyl ether	<696	U	2500	696	ug/L			05/21/24 16:57	500
Methylene Chloride	<863	U	2500	863	ug/L			05/21/24 16:57	500
Propionitrile	<1670	U	5000	1670	ug/L			05/21/24 16:57	500
Propylbenzene	<215	U	500	215	ug/L			05/21/24 16:57	500
Styrene	<310	U	500	310	ug/L			05/21/24 16:57	500
Tetrachloroethene	<328	U	500	328	ug/L			05/21/24 16:57	500
Tetrahydrofuran	<917	U	5000	917	ug/L			05/21/24 16:57	500
Toluene	<238	U	500	238	ug/L			05/21/24 16:57	500
trans-1,2-Dichloroethene	<184	U	500	184	ug/L			05/21/24 16:57	500
trans-1,3-Dichloropropene	<634	U	2500	634	ug/L			05/21/24 16:57	500
trans-1,4-Dichloro-2-butene	<675	U	5000	675	ug/L			05/21/24 16:57	500
Trichloroethene	<750	U	2500	750	ug/L			05/21/24 16:57	500
Trichlorofluoromethane	<280	U	500	280	ug/L			05/21/24 16:57	500
Vinyl acetate	<1070	U	10000	1070	ug/L			05/21/24 16:57	500
Vinyl chloride	<214	U	1000	214	ug/L			05/21/24 16:57	500
Xylenes, Total	<620	U	5000	620	ug/L			05/21/24 16:57	500
m,p-Xylenes	<0.620	U	5.00	0.620	mg/L			05/21/24 16:57	500
o-Xylene	<0.251	U	0.500	0.251	mg/L			05/21/24 16:57	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 16:57	500
4-Bromofluorobenzene (Surr)	97		74 - 124		05/21/24 16:57	500
Dibromofluoromethane (Surr)	94		75 - 131		05/21/24 16:57	500
Toluene-d8 (Surr)	100		80 - 120		05/21/24 16:57	500

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trichlorobenzene</b>	<b>0.675</b>		0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>1,2-Dichlorobenzene</b>	<b>11.3</b>		0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>1,3-Dichlorobenzene</b>	<b>1.71</b>		0.571	0.102	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>1,4-Dichlorobenzene</b>	<b>16.3</b>		0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>2,4,5-Trichlorophenol</b>	<b>0.145</b>	<b>J I</b>	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>2,4-Dinitrotoluene</b>	<b>0.596</b>		0.571	0.205	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 04:00	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>2-Methylnaphthalene</b>	<b>0.190</b>	<b>J I</b>	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>2-Methylphenol</b>	<b>0.294</b>	<b>J</b>	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 04:00	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 04:00	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>3 &amp; 4 Methylphenol</b>	<b>8.14</b>		0.571	0.139	ug/L		05/21/24 06:26	05/23/24 04:00	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 04:00	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 04:00	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 860-74400-14**

**Date Collected: 05/15/24 14:34**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 04:00	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 04:00	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 04:00	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 04:00	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 04:00	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 04:00	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 04:00	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 04:00	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 04:00	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 04:00	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 04:00	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 04:00	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 04:00	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 04:00	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 04:00	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>1.03</b>	<b>J</b>	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Butyl benzyl phthalate</b>	<b>0.543</b>	<b>J I</b>	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 04:00	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 04:00	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 04:00	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Diethyl phthalate</b>	<b>0.738</b>	<b>J</b>	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 04:00	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 04:00	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 04:00	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 04:00	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 04:00	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 04:00	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 04:00	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 04:00	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Hexachloroethane</b>	<b>13.0</b>		0.571	0.102	ug/L		05/21/24 06:26	05/23/24 04:00	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:00	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Naphthalene</b>	<b>0.773</b>		0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 04:00	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 04:00	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 04:00	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Phenol</b>	<b>2.73</b>	<b>J</b>	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 04:00	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 04:00	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Acetophenone</b>	<b>1.89</b>		1.14	0.624	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 04:00	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>Diphenyl ether</b>	<b>0.977</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>1,1'-Biphenyl</b>	<b>0.176</b>	<b>J</b>	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 04:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 860-74400-14**

**Date Collected: 05/15/24 14:34**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>1,2,4,5-Tetrachlorobenzene</b>	<b>0.186</b>	<b>J</b>	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 04:00	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>1,3-Dinitrobenzene</b>	<b>0.190</b>	<b>J I</b>	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 04:00	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 04:00	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 04:00	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 04:00	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>2-Chlorophenol</b>	<b>1.30</b>		0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 04:00	1
<b>2-Naphthylamine</b>	<b>1.58</b>	<b>I</b>	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 04:00	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 04:00	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 04:00	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 04:00	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 04:00	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 04:00	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 04:00	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 04:00	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 04:00	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 04:00	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 04:00	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 04:00	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 04:00	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 04:00	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 04:00	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 04:00	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 04:00	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 04:00	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 04:00	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 04:00	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 04:00	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 04:00	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 04:00	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 04:00	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 04:00	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 04:00	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 04:00	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 04:00	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 04:00	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 04:00	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:00	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:00	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 04:00	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 04:00	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:00	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 860-74400-14**

**Date Collected: 05/15/24 14:34**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 04:00	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	152	S1+	35 - 130	05/21/24 06:26	05/23/24 04:00	1
2-Fluorobiphenyl	106		43 - 130	05/21/24 06:26	05/23/24 04:00	1
2-Fluorophenol (Surr)	83		19 - 120	05/21/24 06:26	05/23/24 04:00	1
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133	05/21/24 06:26	05/23/24 04:00	1
Phenol-d5 (Surr)	57		8 - 124	05/21/24 06:26	05/23/24 04:00	1
p-Terphenyl-d14	103		47 - 130	05/21/24 06:26	05/23/24 04:00	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	108		28.6	4.45	ug/L		05/21/24 06:26	05/23/24 18:31	50
o,o',o"-Triethylphosphorothioate	4730		1140	277	ug/L		05/21/24 06:26	05/24/24 02:34	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		35 - 130	05/21/24 06:26	05/23/24 18:31	50
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/21/24 06:26	05/24/24 02:34	2000
2-Fluorobiphenyl	151	S1+	43 - 130	05/21/24 06:26	05/23/24 18:31	50
2-Fluorobiphenyl	308	I S1+	43 - 130	05/21/24 06:26	05/24/24 02:34	2000
2-Fluorophenol (Surr)	118		19 - 120	05/21/24 06:26	05/23/24 18:31	50
2-Fluorophenol (Surr)	1058	S1+	19 - 120	05/21/24 06:26	05/24/24 02:34	2000
Nitrobenzene-d5 (Surr)	182	S1+	37 - 133	05/21/24 06:26	05/23/24 18:31	50
Nitrobenzene-d5 (Surr)	681	S1+	37 - 133	05/21/24 06:26	05/24/24 02:34	2000
Phenol-d5 (Surr)	121		8 - 124	05/21/24 06:26	05/23/24 18:31	50
Phenol-d5 (Surr)	1524	I S1+	8 - 124	05/21/24 06:26	05/24/24 02:34	2000
p-Terphenyl-d14	133	S1+	47 - 130	05/21/24 06:26	05/23/24 18:31	50
p-Terphenyl-d14	154	S1+	47 - 130	05/21/24 06:26	05/24/24 02:34	2000

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	0.430	J	0.571	0.147	ug/L		05/21/24 06:26	05/24/24 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	135	S1+	35 - 130	05/21/24 06:26	05/24/24 12:18	1
2-Fluorobiphenyl	95		43 - 130	05/21/24 06:26	05/24/24 12:18	1
2-Fluorophenol (Surr)	76		19 - 120	05/21/24 06:26	05/24/24 12:18	1
Nitrobenzene-d5 (Surr)	110		37 - 133	05/21/24 06:26	05/24/24 12:18	1
Phenol-d5 (Surr)	52		8 - 124	05/21/24 06:26	05/24/24 12:18	1
p-Terphenyl-d14	104		47 - 130	05/21/24 06:26	05/24/24 12:18	1

**Method: SW846 8321A - Delnav (LC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 13:01	1

# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<12.9	U	20.0	12.9	ug/L			05/21/24 15:56	20
1,1,1-Trichloroethane	<11.7	U	100	11.7	ug/L			05/21/24 15:56	20
1,1,2,2-Tetrachloroethane	<9.40	U	20.0	9.40	ug/L			05/21/24 15:56	20
1,1,2-Trichloro-1,2,2-trifluoroethane	<22.2	U	200	22.2	ug/L			05/21/24 15:56	20
1,1,2-Trichloroethane	<8.22	U	20.0	8.22	ug/L			05/21/24 15:56	20
1,1-Dichloroethane	<12.7	U	20.0	12.7	ug/L			05/21/24 15:56	20
1,1-Dichloroethene	<14.8	U	20.0	14.8	ug/L			05/21/24 15:56	20
1,2,3-Trichloropropane	<9.40	U	20.0	9.40	ug/L			05/21/24 15:56	20
1,2,4-Trimethylbenzene	<8.34	U	20.0	8.34	ug/L			05/21/24 15:56	20
1,2-Dibromo-3-Chloropropane	<13.4	U	100	13.4	ug/L			05/21/24 15:56	20
1,2-Dibromoethane	<20.0	U	100	20.0	ug/L			05/21/24 15:56	20
1,2-Dichloroethane	<7.44	U	20.0	7.44	ug/L			05/21/24 15:56	20
1,2-Dichloropropane	<11.1	U	100	11.1	ug/L			05/21/24 15:56	20
1,3,5-Trimethylbenzene	<8.22	U	20.0	8.22	ug/L			05/21/24 15:56	20
1,3-Butadiene	<11.4	U	20.0	11.4	ug/L			05/21/24 15:56	20
2,2,4-Trimethylpentane	<10.0	U	100	10.0	ug/L			05/21/24 15:56	20
2-Butanone (MEK)	<166	U	1000	166	ug/L			05/21/24 15:56	20
2-Hexanone (MBK)	<149	U	1000	149	ug/L			05/21/24 15:56	20
2-Propanol	<105	U	200	105	ug/L			05/21/24 15:56	20
3-Chloropropene (Allyl Chloride)	<11.9	U	100	11.9	ug/L			05/21/24 15:56	20
4-Methyl-2-pentanone	<150	U	1000	150	ug/L			05/21/24 15:56	20
<b>Acetone</b>	<b>221</b>	<b>J</b>	2000	61.3	ug/L			05/21/24 15:56	20
Acetonitrile	<292	U	2000	292	ug/L			05/21/24 15:56	20
Acrolein	<222	U	1000	222	ug/L			05/21/24 15:56	20
Acrylonitrile	<286	U	1000	286	ug/L			05/21/24 15:56	20
alpha-Chlorotoluene	<45.1	U **	100	45.1	ug/L			05/21/24 15:56	20
<b>Benzene</b>	<b>713</b>		20.0	9.19	ug/L			05/21/24 15:56	20
Bromodichloromethane	<11.0	U	20.0	11.0	ug/L			05/21/24 15:56	20
Bromoform	<12.7	U	100	12.7	ug/L			05/21/24 15:56	20
Bromomethane	<28.4	U	100	28.4	ug/L			05/21/24 15:56	20
Carbon disulfide	<33.0	U	100	33.0	ug/L			05/21/24 15:56	20
<b>Chlorobenzene</b>	<b>811</b>		20.0	9.10	ug/L			05/21/24 15:56	20
Chlorodibromomethane	<10.9	U	100	10.9	ug/L			05/21/24 15:56	20
Chloroethane	<39.7	U	200	39.7	ug/L			05/21/24 15:56	20
<b>Chloroform</b>	<b>1830</b>		20.0	9.28	ug/L			05/21/24 15:56	20
Chloromethane	<40.7	U	200	40.7	ug/L			05/21/24 15:56	20
Chloroprene	<12.0	U	100	12.0	ug/L			05/21/24 15:56	20
<b>cis-1,2-Dichloroethene</b>	<b>40.8</b>		20.0	9.14	ug/L			05/21/24 15:56	20
cis-1,3-Dichloropropene	<21.3	U	100	21.3	ug/L			05/21/24 15:56	20
Cumene (isopropylbenzene)	<11.8	U	20.0	11.8	ug/L			05/21/24 15:56	20
Dibromomethane	<7.14	U	20.0	7.14	ug/L			05/21/24 15:56	20
Dichlorodifluoromethane	<15.7	U	20.0	15.7	ug/L			05/21/24 15:56	20
Ethyl methacrylate	<22.4	U	100	22.4	ug/L			05/21/24 15:56	20
<b>Ethylbenzene</b>	<b>119</b>		20.0	7.70	ug/L			05/21/24 15:56	20
Hexane	<10.3	U	100	10.3	ug/L			05/21/24 15:56	20
Iodomethane	<130	U	400	130	ug/L			05/21/24 15:56	20
Isobutanol	<342	U	1000	342	ug/L			05/21/24 15:56	20
Methacrylonitrile	<54.3	U	200	54.3	ug/L			05/21/24 15:56	20
Methyl methacrylate	<45.0	U	200	45.0	ug/L			05/21/24 15:56	20

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

**Date Collected: 05/15/24 00:00**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<27.8	U	100	27.8	ug/L			05/21/24 15:56	20
Methylene Chloride	<34.5	U	100	34.5	ug/L			05/21/24 15:56	20
Propionitrile	<66.8	U	200	66.8	ug/L			05/21/24 15:56	20
Propylbenzene	<8.58	U	20.0	8.58	ug/L			05/21/24 15:56	20
Styrene	<12.4	U	20.0	12.4	ug/L			05/21/24 15:56	20
Tetrachloroethene	<13.1	U	20.0	13.1	ug/L			05/21/24 15:56	20
Tetrahydrofuran	<36.7	U	200	36.7	ug/L			05/21/24 15:56	20
<b>Toluene</b>	<b>41.0</b>		20.0	9.50	ug/L			05/21/24 15:56	20
trans-1,2-Dichloroethene	<7.36	U	20.0	7.36	ug/L			05/21/24 15:56	20
trans-1,3-Dichloropropene	<25.3	U	100	25.3	ug/L			05/21/24 15:56	20
trans-1,4-Dichloro-2-butene	<27.0	U	200	27.0	ug/L			05/21/24 15:56	20
Trichloroethene	<30.0	U	100	30.0	ug/L			05/21/24 15:56	20
Trichlorofluoromethane	<11.2	U	20.0	11.2	ug/L			05/21/24 15:56	20
Vinyl acetate	<42.8	U	400	42.8	ug/L			05/21/24 15:56	20
<b>Vinyl chloride</b>	<b>9.37</b>	<b>J</b>	40.0	8.56	ug/L			05/21/24 15:56	20
<b>Xylenes, Total</b>	<b>203</b>		200	24.8	ug/L			05/21/24 15:56	20
<b>m,p-Xylenes</b>	<b>0.102</b>	<b>J</b>	0.200	0.0248	mg/L			05/21/24 15:56	20
<b>o-Xylene</b>	<b>0.101</b>		0.0200	0.0100	mg/L			05/21/24 15:56	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		05/21/24 15:56	20
4-Bromofluorobenzene (Surr)	98		74 - 124		05/21/24 15:56	20
Dibromofluoromethane (Surr)	95		75 - 131		05/21/24 15:56	20
Toluene-d8 (Surr)	99		80 - 120		05/21/24 15:56	20

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Carbon tetrachloride</b>	<b>57700</b>	<b>H</b>	2500	448	ug/L			05/23/24 12:01	500
Cyclohexane	<643	U H	2500	643	ug/L			05/23/24 12:01	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		63 - 144		05/23/24 12:01	500
4-Bromofluorobenzene (Surr)	120		74 - 124		05/23/24 12:01	500
Dibromofluoromethane (Surr)	118		75 - 131		05/23/24 12:01	500
Toluene-d8 (Surr)	108		80 - 120		05/23/24 12:01	500

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trichlorobenzene</b>	<b>0.662</b>		0.571	0.0766	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>1,2-Dichlorobenzene</b>	<b>11.8</b>		0.571	0.0941	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>1,3-Dichlorobenzene</b>	<b>1.74</b>		0.571	0.102	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>1,4-Dichlorobenzene</b>	<b>17.1</b>		0.571	0.0779	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>2,4-Dichlorophenol</b>	<b>0.150</b>	<b>J</b>	0.571	0.140	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>2,4-Dinitrotoluene</b>	<b>0.611</b>		0.571	0.205	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/23/24 04:29	1

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# Client Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>2-Methylnaphthalene</b>	<b>0.182</b>	<b>J I</b>	0.571	0.0603	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>2-Methylphenol</b>	<b>0.272</b>	<b>J</b>	0.571	0.105	ug/L		05/21/24 06:26	05/23/24 04:29	1
2-Nitroaniline	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 04:29	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>3 &amp; 4 Methylphenol</b>	<b>8.22</b>		0.571	0.139	ug/L		05/21/24 06:26	05/23/24 04:29	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/23/24 04:29	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Nitroaniline	<0.109	U *	0.571	0.109	ug/L		05/21/24 06:26	05/23/24 04:29	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 04:29	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/23/24 04:29	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/23/24 04:29	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/23/24 04:29	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/23/24 04:29	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/23/24 04:29	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/23/24 04:29	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/23/24 04:29	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/23/24 04:29	1
Benzyl alcohol	<0.600	U	1.14	0.600	ug/L		05/21/24 06:26	05/23/24 04:29	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/23/24 04:29	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>1.03</b>	<b>J</b>	1.14	0.900	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Butyl benzyl phthalate</b>	<b>0.501</b>	<b>J I</b>	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 04:29	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/23/24 04:29	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/23/24 04:29	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Diethyl phthalate</b>	<b>0.690</b>	<b>J</b>	1.14	0.155	ug/L		05/21/24 06:26	05/23/24 04:29	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/23/24 04:29	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/23/24 04:29	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/23/24 04:29	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/23/24 04:29	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/23/24 04:29	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/23/24 04:29	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/23/24 04:29	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Hexachloroethane</b>	<b>13.8</b>		0.571	0.102	ug/L		05/21/24 06:26	05/23/24 04:29	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:29	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Naphthalene</b>	<b>0.774</b>		0.571	0.0944	ug/L		05/21/24 06:26	05/23/24 04:29	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/23/24 04:29	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/23/24 04:29	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Phenol</b>	<b>2.61</b>	<b>J</b>	2.86	0.448	ug/L		05/21/24 06:26	05/23/24 04:29	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/23/24 04:29	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitro-o-toluidine	<0.520	U *	1.14	0.520	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Acetophenone</b>	<b>1.87</b>		1.14	0.624	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/23/24 04:29	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>Diphenyl ether</b>	<b>0.962</b>		0.571	0.0910	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>1,1'-Biphenyl</b>	<b>0.138</b>	<b>J</b>	0.571	0.0981	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>1,2,4,5-Tetrachlorobenzene</b>	<b>0.167</b>	<b>J</b>	0.571	0.0957	ug/L		05/21/24 06:26	05/23/24 04:29	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>1,3-Dinitrobenzene</b>	<b>0.146</b>	<b>J I</b>	0.571	0.0773	ug/L		05/21/24 06:26	05/23/24 04:29	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/23/24 04:29	1
1-Naphthylamine	<0.149	U *	0.571	0.149	ug/L		05/21/24 06:26	05/23/24 04:29	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/23/24 04:29	1
2-Acetylaminofluorene	<1.26	U **	2.86	1.26	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>2-Chlorophenol</b>	<b>1.23</b>		0.571	0.0756	ug/L		05/21/24 06:26	05/23/24 04:29	1
<b>2-Naphthylamine</b>	<b>1.45</b>	<b>I</b>	0.571	0.288	ug/L		05/21/24 06:26	05/23/24 04:29	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/23/24 04:29	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/23/24 04:29	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/23/24 04:29	1
3,3'-Dimethylbenzidine	<0.142	U *	0.571	0.142	ug/L		05/21/24 06:26	05/23/24 04:29	1
3-Methylcholanthrene	<0.104	U *	0.571	0.104	ug/L		05/21/24 06:26	05/23/24 04:29	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/23/24 04:29	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 04:29	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U *	5.71	3.67	ug/L		05/21/24 06:26	05/23/24 04:29	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/23/24 04:29	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 04:29	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/23/24 04:29	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 04:29	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/23/24 04:29	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/23/24 04:29	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/23/24 04:29	1
Dinoseb	<0.570	U **	0.571	0.570	ug/L		05/21/24 06:26	05/23/24 04:29	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/23/24 04:29	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/23/24 04:29	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/23/24 04:29	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/23/24 04:29	1
Hexachloropropene	<0.300	U *	0.571	0.300	ug/L		05/21/24 06:26	05/23/24 04:29	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 04:29	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/23/24 04:29	1
Isosafrole Peak 2	<0.241	U *	0.571	0.241	ug/L		05/21/24 06:26	05/23/24 04:29	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/23/24 04:29	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/23/24 04:29	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/23/24 04:29	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/16/24 09:54

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/23/24 04:29	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/23/24 04:29	1
p-Dimethylamino azobenzene	<0.0238	U *	0.571	0.0238	ug/L		05/21/24 06:26	05/23/24 04:29	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:29	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:29	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/23/24 04:29	1
p-Phenylene diamine	<0.500	U *	1.14	0.500	ug/L		05/21/24 06:26	05/23/24 04:29	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/23/24 04:29	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/23/24 04:29	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/23/24 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	153	S1+	35 - 130	05/21/24 06:26	05/23/24 04:29	1
2-Fluorobiphenyl	102		43 - 130	05/21/24 06:26	05/23/24 04:29	1
2-Fluorophenol (Surr)	83		19 - 120	05/21/24 06:26	05/23/24 04:29	1
Nitrobenzene-d5 (Surr)	127		37 - 133	05/21/24 06:26	05/23/24 04:29	1
Phenol-d5 (Surr)	57		8 - 124	05/21/24 06:26	05/23/24 04:29	1
p-Terphenyl-d14	102		47 - 130	05/21/24 06:26	05/23/24 04:29	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	109		28.6	4.45	ug/L		05/21/24 06:26	05/23/24 19:00	50
o,o',o"-Triethylphosphorothioate	4980		1140	277	ug/L		05/21/24 06:26	05/24/24 03:02	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		35 - 130	05/21/24 06:26	05/23/24 19:00	50
2,4,6-Tribromophenol (Surr)	0	S1-	35 - 130	05/21/24 06:26	05/24/24 03:02	2000
2-Fluorobiphenyl	153	S1+	43 - 130	05/21/24 06:26	05/23/24 19:00	50
2-Fluorobiphenyl	262	S1+	43 - 130	05/21/24 06:26	05/24/24 03:02	2000
2-Fluorophenol (Surr)	97		19 - 120	05/21/24 06:26	05/23/24 19:00	50
2-Fluorophenol (Surr)	944	S1+	19 - 120	05/21/24 06:26	05/24/24 03:02	2000
Nitrobenzene-d5 (Surr)	204	S1+	37 - 133	05/21/24 06:26	05/23/24 19:00	50
Nitrobenzene-d5 (Surr)	613	I S1+	37 - 133	05/21/24 06:26	05/24/24 03:02	2000
Phenol-d5 (Surr)	97		8 - 124	05/21/24 06:26	05/23/24 19:00	50
Phenol-d5 (Surr)	1812	I S1+	8 - 124	05/21/24 06:26	05/24/24 03:02	2000
p-Terphenyl-d14	139	S1+	47 - 130	05/21/24 06:26	05/23/24 19:00	50
p-Terphenyl-d14	342	S1+	47 - 130	05/21/24 06:26	05/24/24 03:02	2000

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	0.365	J	0.571	0.147	ug/L		05/21/24 06:26	05/24/24 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	148	S1+	35 - 130	05/21/24 06:26	05/24/24 12:48	1
2-Fluorobiphenyl	94		43 - 130	05/21/24 06:26	05/24/24 12:48	1
2-Fluorophenol (Surr)	72		19 - 120	05/21/24 06:26	05/24/24 12:48	1
Nitrobenzene-d5 (Surr)	115		37 - 133	05/21/24 06:26	05/24/24 12:48	1
Phenol-d5 (Surr)	47		8 - 124	05/21/24 06:26	05/24/24 12:48	1
p-Terphenyl-d14	106		47 - 130	05/21/24 06:26	05/24/24 12:48	1

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# Client Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

**Date Collected: 05/15/24 00:00**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

**Method: SW846 8321A - Delnav (LC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 13:06	1

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# Surrogate Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-74380-B-1 MS	Matrix Spike	96	98	98	99
860-74400-1	MW-6	98	99	97	98
860-74400-2	FB-01	99	97	96	100
860-74400-3	MW-7	98	99	97	99
860-74400-4	MW-14	98	97	97	99
860-74400-5	MW-5	100	100	98	97
860-74400-6	MW-4	98	98	98	100
860-74400-7	MW-15	98	97	97	100
860-74400-7 - DL	MW-15	98	98	98	99
860-74400-8	MW-16	100	98	96	99
860-74400-9	MW-23	98	97	95	98
860-74400-10	MW-21	97	96	97	99
860-74400-11	TB-09(051524)	99	97	98	99
860-74400-12	MW-13	99	98	96	98
860-74400-13	MW-8	101	97	99	99
860-74400-13 - DL	MW-8	115	115	116	105
860-74400-14	MW-17	98	97	94	100
860-74400-15	DUPE-01	96	98	95	99
860-74400-15 - DL	DUPE-01	116	120	118	108
860-74636-F-1 MS	Matrix Spike	93	98	97	99
860-74659-W-1 MS	Matrix Spike	97	98	106	99
LCS 860-161379/3	Lab Control Sample	92	100	97	99
LCS 860-161590/3	Lab Control Sample	93	100	98	98
LCS 860-161868/3	Lab Control Sample	100	100	107	100
LCSD 860-161379/4	Lab Control Sample Dup	94	101	97	98
LCSD 860-161590/4	Lab Control Sample Dup	95	100	98	100
LCSD 860-161868/4	Lab Control Sample Dup	97	99	107	100
MB 860-161379/9	Method Blank	98	99	96	99
MB 860-161590/12	Method Blank	98	100	98	98
MB 860-161868/9	Method Blank	116	115	117	104

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74400-1	MW-6	121	112	88	121	64	100
860-74400-1 - RA	MW-6	124	94	84	110	62	93
860-74400-3	MW-7	114	106	83	114	57	104
860-74400-3 - RA	MW-7	171 S1+	116	96	175 S1+	66	110
860-74400-4	MW-14	112	79	74	104	52	86
860-74400-4 - DL	MW-14	86	89	81	129	68	92
860-74400-5	MW-5	124	92	86	126	56	76

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# Surrogate Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	FBP (43-130)	2FP (19-120)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-74400-5 - DL	MW-5	94	91	72	105	58	71
860-74400-5 - RA	MW-5	179 S1+	98	93	171 S1+	63	78
860-74400-6	MW-4	123	100	80	124	53	96
860-74400-6 - DL	MW-4	131 S1+	103	75	112	55	88
860-74400-7	MW-15	128	90	95	122	72	97
860-74400-7 - DL	MW-15	91	145 S1+	130 S1+	172 S1+	132 S1+	152 S1+
860-74400-7	MW-15	134 S1+	87	97	151 S1+	78	89
860-74400-8	MW-16	133 S1+	94	88	124	65	101
860-74400-8 - DL	MW-16	161 S1+	148 S1+	154 S1+	162 S1+	148 S1+	137 S1+
860-74400-9	MW-23	149 S1+	89	83	129	58	89
860-74400-9 - DL3	MW-23	33 S1-	124	117	147 S1+	95	113
860-74400-9 - DL	MW-23	168 S1+	95	82	149 S1+	53	99
860-74400-9 - DL2	MW-23	154 S1+	93	80	115	58	101
860-74400-9 - DL4	MW-23	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-74400-10	MW-21	155 S1+	92	85	137 S1+	62	88
860-74400-10 - DL3	MW-21	113	136 S1+	112	173 S1+	101	137 S1+
860-74400-10 - DL	MW-21	154 S1+	84	93	173 S1+	72	97
860-74400-10 - DL2	MW-21	137 S1+	78	79	111	67	89
860-74400-10 - DL4	MW-21	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-74400-12	MW-13	144 S1+	109	86	138 S1+	60	94
860-74400-12 - DL2	MW-13	122	113	95	131	85	104
860-74400-13	MW-8	147 S1+	107	89	129	64	94
860-74400-13 - DL	MW-8	230 S1+	215 S1+	163 S1+	270 S1+	182 S1+	125
860-74400-14	MW-17	152 S1+	106	83	137 S1+	57	103
860-74400-14 - DL	MW-17	103	151 S1+	118	182 S1+	121	133 S1+
860-74400-14 - DL	MW-17	0 S1-	308 S1+	1058 S1+	681 S1+	1524 S1+	154 S1+
860-74400-14 - RA	MW-17	135 S1+	95	76	110	52	104
860-74400-15	DUPE-01	153 S1+	102	83	127	57	102
860-74400-15 - DL	DUPE-01	87	153 S1+	97	204 S1+	97	139 S1+
860-74400-15 - DL	DUPE-01	0 S1-	262 S1+	944 S1+	613 S1+	1812 S1+	342 S1+
860-74400-15 - RA	DUPE-01	148 S1+	94	72	115	47	106
LCS 860-161376/2-A	Lab Control Sample	117	104	81	121	53	102
LCS 860-161376/4-A	Lab Control Sample	113	108	79	121	56	105
LCSD 860-161376/3-A	Lab Control Sample Dup	108	96	79	118	49	95
LCSD 860-161376/5-A	Lab Control Sample Dup	116	104	81	129	57	91
MB 860-161376/1-A	Method Blank	100	93	69	112	42	99

**Surrogate Legend**

- TBP = 2,4,6-Tribromophenol (Surr)
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHd14 = p-Terphenyl-d14

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 860-161379/9**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/21/24 10:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/21/24 10:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/21/24 10:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/21/24 10:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/21/24 10:07	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/21/24 10:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/21/24 10:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/21/24 10:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/21/24 10:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/21/24 10:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/21/24 10:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/21/24 10:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/21/24 10:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/21/24 10:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/21/24 10:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/21/24 10:07	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/21/24 10:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/21/24 10:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/21/24 10:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/21/24 10:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/21/24 10:07	1
Acetone	<3.07	U	100	3.07	ug/L			05/21/24 10:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/21/24 10:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/21/24 10:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/21/24 10:07	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/21/24 10:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/21/24 10:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/21/24 10:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/21/24 10:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/21/24 10:07	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/21/24 10:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/21/24 10:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/21/24 10:07	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/21/24 10:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/21/24 10:07	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/21/24 10:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/21/24 10:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/21/24 10:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/21/24 10:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/21/24 10:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/21/24 10:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/21/24 10:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/21/24 10:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/21/24 10:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/21/24 10:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/21/24 10:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/21/24 10:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/21/24 10:07	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-161379/9**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/21/24 10:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/21/24 10:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/21/24 10:07	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/21/24 10:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/21/24 10:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/21/24 10:07	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/21/24 10:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/21/24 10:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/21/24 10:07	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/21/24 10:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/21/24 10:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/21/24 10:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/21/24 10:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/21/24 10:07	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/21/24 10:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/21/24 10:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/21/24 10:07	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/21/24 10:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/21/24 10:07	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/21/24 10:07	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/21/24 10:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/21/24 10:07	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/21/24 10:07	1
Dibromofluoromethane (Surr)	96		75 - 131		05/21/24 10:07	1
Toluene-d8 (Surr)	99		80 - 120		05/21/24 10:07	1

**Lab Sample ID: LCS 860-161379/3**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.32		ug/L		105	72 - 125
1,1,1-Trichloroethane	50.0	51.87		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.56		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.07		ug/L		112	60 - 140
1,1,2-Trichloroethane	50.0	50.44		ug/L		101	75 - 130
1,1-Dichloroethane	50.0	50.69		ug/L		101	71 - 130
1,1-Dichloroethene	50.0	52.83		ug/L		106	50 - 150
1,2,3-Trichloropropane	50.0	50.89		ug/L		102	75 - 125
1,2,4-Trimethylbenzene	50.0	54.26		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	55.84		ug/L		112	59 - 125
1,2-Dibromoethane	50.0	51.17		ug/L		102	73 - 125
1,2-Dichloroethane	50.0	47.77		ug/L		96	72 - 130
1,2-Dichloropropane	50.0	50.35		ug/L		101	74 - 125
1,3,5-Trimethylbenzene	50.0	52.60		ug/L		105	60 - 140
1,3-Butadiene	50.0	47.65		ug/L		95	60 - 150

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161379/3**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	58.82		ug/L		118	70 - 130
2-Butanone (MEK)	250	248.1		ug/L		99	60 - 140
2-Hexanone (MBK)	250	247.5		ug/L		99	60 - 140
2-Propanol	500	509.3		ug/L		102	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	53.74		ug/L		107	70 - 130
4-Methyl-2-pentanone	250	246.9		ug/L		99	60 - 140
Acetone	250	246.1		ug/L		98	60 - 140
Acetonitrile	500	477.9		ug/L		96	60 - 140
Acrolein	250	231.4		ug/L		93	60 - 140
Acrylonitrile	500	494.9		ug/L		99	60 - 140
alpha-Chlorotoluene	50.0	63.48	*+	ug/L		127	75 - 125
Benzene	50.0	50.67		ug/L		101	75 - 125
Bromodichloromethane	50.0	50.84		ug/L		102	75 - 125
Bromoform	50.0	52.63		ug/L		105	70 - 130
Bromomethane	50.0	49.10		ug/L		98	60 - 140
Carbon disulfide	50.0	51.55		ug/L		103	60 - 140
Carbon tetrachloride	50.0	50.02		ug/L		100	70 - 125
Chlorobenzene	50.0	50.76		ug/L		102	82 - 135
Chlorodibromomethane	50.0	50.43		ug/L		101	73 - 125
Chloroethane	50.0	50.78		ug/L		102	60 - 140
Chloroform	50.0	49.03		ug/L		98	70 - 121
Chloromethane	50.0	46.87		ug/L		94	60 - 140
Chloroprene	50.0	59.35		ug/L		119	70 - 130
cis-1,2-Dichloroethene	50.0	50.71		ug/L		101	75 - 125
cis-1,3-Dichloropropene	50.0	51.14		ug/L		102	74 - 125
Cumene (isopropylbenzene)	50.0	52.84		ug/L		106	75 - 125
Cyclohexane	50.0	51.27		ug/L		103	70 - 130
Dibromomethane	50.0	50.16		ug/L		100	69 - 127
Dichlorodifluoromethane	50.0	45.24		ug/L		90	50 - 150
Ethyl methacrylate	50.0	51.90		ug/L		104	70 - 130
Ethylbenzene	50.0	51.84		ug/L		104	75 - 125
Hexane	50.0	53.69		ug/L		107	72 - 125
Iodomethane	50.0	49.09		ug/L		98	75 - 125
Isobutanol	1240	1288		ug/L		104	60 - 140
Methacrylonitrile	500	558.7		ug/L		112	70 - 130
Methyl methacrylate	100	104.2		ug/L		104	70 - 130
Methyl tert-butyl ether	50.0	50.38		ug/L		101	65 - 135
Methylene Chloride	50.0	47.38		ug/L		95	71 - 125
Propionitrile	500	498.4		ug/L		100	70 - 130
Propylbenzene	50.0	53.42		ug/L		107	75 - 125
Styrene	50.0	53.12		ug/L		106	75 - 125
Tetrachloroethene	50.0	52.16		ug/L		104	71 - 125
Tetrahydrofuran	100	101.8		ug/L		102	75 - 125
Toluene	50.0	51.05		ug/L		102	75 - 130
trans-1,2-Dichloroethene	50.0	52.10		ug/L		104	75 - 125
trans-1,3-Dichloropropene	50.0	51.61		ug/L		103	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.15		ug/L		100	70 - 130
Trichloroethene	50.0	51.85		ug/L		104	75 - 135
Trichlorofluoromethane	50.0	47.73		ug/L		95	60 - 140

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161379/3**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	254.4		ug/L		102	60 - 140
Vinyl chloride	50.0	49.00		ug/L		98	60 - 140
Xylenes, Total	100	104.9		ug/L		105	75 - 125
m,p-Xylenes	0.0500	0.05239		mg/L		105	75 - 125
o-Xylene	0.0500	0.05249		mg/L		105	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: LCSD 860-161379/4**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	54.02		ug/L		108	72 - 125	3	25
1,1,1-Trichloroethane	50.0	52.81		ug/L		106	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	53.42		ug/L		107	74 - 125	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.90		ug/L		114	60 - 140	1	25
1,1,2-Trichloroethane	50.0	52.36		ug/L		105	75 - 130	4	25
1,1-Dichloroethane	50.0	51.72		ug/L		103	71 - 130	2	25
1,1-Dichloroethene	50.0	54.90		ug/L		110	50 - 150	4	25
1,2,3-Trichloropropane	50.0	52.06		ug/L		104	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	56.36		ug/L		113	75 - 125	4	25
1,2-Dibromo-3-Chloropropane	50.0	58.01		ug/L		116	59 - 125	4	25
1,2-Dibromoethane	50.0	53.33		ug/L		107	73 - 125	4	25
1,2-Dichloroethane	50.0	49.65		ug/L		99	72 - 130	4	25
1,2-Dichloropropane	50.0	51.76		ug/L		104	74 - 125	3	25
1,3,5-Trimethylbenzene	50.0	54.72		ug/L		109	60 - 140	4	25
1,3-Butadiene	50.0	49.01		ug/L		98	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	64.61		ug/L		129	70 - 130	9	25
2-Butanone (MEK)	250	258.6		ug/L		103	60 - 140	4	25
2-Hexanone (MBK)	250	257.8		ug/L		103	60 - 140	4	25
2-Propanol	500	541.7		ug/L		108	70 - 120	6	25
3-Chloropropene (Allyl Chloride)	50.0	55.07		ug/L		110	70 - 130	2	25
4-Methyl-2-pentanone	250	255.9		ug/L		102	60 - 140	4	25
Acetone	250	256.7		ug/L		103	60 - 140	4	25
Acetonitrile	500	480.5		ug/L		96	60 - 140	1	25
Acrolein	250	242.2		ug/L		97	60 - 140	5	25
Acrylonitrile	500	505.9		ug/L		101	60 - 140	2	25
alpha-Chlorotoluene	50.0	64.34	*+	ug/L		129	75 - 125	1	25
Benzene	50.0	53.10		ug/L		106	75 - 125	5	25
Bromodichloromethane	50.0	52.20		ug/L		104	75 - 125	3	25
Bromoform	50.0	54.83		ug/L		110	70 - 130	4	25
Bromomethane	50.0	50.10		ug/L		100	60 - 140	2	25
Carbon disulfide	50.0	53.07		ug/L		106	60 - 140	3	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-161379/4**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	52.01		ug/L		104	70 - 125	4	25
Chlorobenzene	50.0	52.52		ug/L		105	82 - 135	3	25
Chlorodibromomethane	50.0	52.55		ug/L		105	73 - 125	4	25
Chloroethane	50.0	51.12		ug/L		102	60 - 140	1	25
Chloroform	50.0	49.67		ug/L		99	70 - 121	1	25
Chloromethane	50.0	47.14		ug/L		94	60 - 140	1	25
Chloroprene	50.0	61.12		ug/L		122	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	51.44		ug/L		103	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	52.59		ug/L		105	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	55.87		ug/L		112	75 - 125	6	25
Cyclohexane	50.0	55.38		ug/L		111	70 - 130	8	25
Dibromomethane	50.0	51.81		ug/L		104	69 - 127	3	25
Dichlorodifluoromethane	50.0	46.81		ug/L		94	50 - 150	3	25
Ethyl methacrylate	50.0	53.95		ug/L		108	70 - 130	4	25
Ethylbenzene	50.0	54.22		ug/L		108	75 - 125	4	25
Hexane	50.0	59.00		ug/L		118	72 - 125	9	25
Iodomethane	50.0	49.30		ug/L		99	75 - 125	0	25
Isobutanol	1240	1332		ug/L		107	60 - 140	3	25
Methacrylonitrile	500	567.8		ug/L		114	70 - 130	2	25
Methyl methacrylate	100	108.6		ug/L		109	70 - 130	4	25
Methyl tert-butyl ether	50.0	50.70		ug/L		101	65 - 135	1	25
Methylene Chloride	50.0	47.71		ug/L		95	71 - 125	1	25
Propionitrile	500	506.3		ug/L		101	70 - 130	2	25
Propylbenzene	50.0	55.82		ug/L		112	75 - 125	4	25
Styrene	50.0	54.70		ug/L		109	75 - 125	3	25
Tetrachloroethene	50.0	54.76		ug/L		110	71 - 125	5	25
Tetrahydrofuran	100	105.2		ug/L		105	75 - 125	3	25
Toluene	50.0	53.01		ug/L		106	75 - 130	4	25
trans-1,2-Dichloroethene	50.0	52.93		ug/L		106	75 - 125	2	25
trans-1,3-Dichloropropene	50.0	53.71		ug/L		107	66 - 125	4	25
trans-1,4-Dichloro-2-butene	50.0	52.24		ug/L		104	70 - 130	4	25
Trichloroethene	50.0	54.52		ug/L		109	75 - 135	5	25
Trichlorofluoromethane	50.0	50.70		ug/L		101	60 - 140	6	25
Vinyl acetate	250	253.5		ug/L		101	60 - 140	0	25
Vinyl chloride	50.0	48.82		ug/L		98	60 - 140	0	25
Xylenes, Total	100	108.8		ug/L		109	75 - 125	4	25
m,p-Xylenes	0.0500	0.05410		mg/L		108	75 - 125	3	25
o-Xylene	0.0500	0.05466		mg/L		109	75 - 125	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	98		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74636-F-1 MS**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	52.83		ug/L		106	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	50.79		ug/L		102	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	52.91		ug/L		106	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	49.23		ug/L		98	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.54		ug/L		103	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	49.65		ug/L		99	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	48.81		ug/L		98	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	51.73		ug/L		103	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	54.88		ug/L		110	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	56.69		ug/L		113	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	52.55		ug/L		105	73 - 125
1,2-Dichloroethane	3.18		50.0	51.31		ug/L		96	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	50.80		ug/L		102	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	52.77		ug/L		106	70 - 125
1,3-Butadiene	<0.568	U	50.0	45.55		ug/L		91	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	48.18		ug/L		96	70 - 130
2-Butanone (MEK)	<8.28	U	250	262.2		ug/L		105	60 - 140
2-Hexanone (MBK)	<7.45	U	250	266.1		ug/L		106	60 - 140
2-Propanol	<5.23	U	500	499.6		ug/L		100	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	47.07		ug/L		94	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	256.6		ug/L		103	60 - 140
Acetone	<3.07	U	250	257.9		ug/L		103	60 - 140
Acetonitrile	<14.6	U	500	462.4		ug/L		92	60 - 140
Acrolein	<11.1	U	250	128.8		ug/L		52	50 - 150
Acrylonitrile	<14.3	U	500	487.4		ug/L		97	50 - 150
alpha-Chlorotoluene	<2.26	U *+	50.0	59.39		ug/L		119	70 - 130
Benzene	<0.460	U	50.0	50.95		ug/L		102	66 - 142
Bromodichloromethane	<0.552	U	50.0	51.19		ug/L		102	75 - 125
Bromoform	<0.633	U	50.0	54.72		ug/L		109	75 - 125
Bromomethane	<1.42	U	50.0	50.01		ug/L		100	60 - 140
Carbon disulfide	<1.65	U	50.0	44.30		ug/L		89	60 - 140
Carbon tetrachloride	<0.896	U	50.0	48.23		ug/L		96	62 - 125
Chlorobenzene	<0.455	U	50.0	52.02		ug/L		104	60 - 133
Chlorodibromomethane	<0.547	U	50.0	52.48		ug/L		105	73 - 125
Chloroethane	<1.98	U	50.0	52.41		ug/L		105	60 - 140
Chloroform	<0.464	U	50.0	48.54		ug/L		97	70 - 130
Chloromethane	<2.04	U	50.0	42.43		ug/L		85	60 - 140
Chloroprene	<0.598	U	50.0	50.77		ug/L		102	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	49.92		ug/L		100	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	51.73		ug/L		103	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	54.23		ug/L		108	75 - 125
Cyclohexane	<1.29	U	50.0	47.69		ug/L		95	70 - 130
Dibromomethane	<0.357	U	50.0	50.18		ug/L		100	69 - 127
Dichlorodifluoromethane	<0.785	U F1	50.0	30.74	F1	ug/L		61	70 - 130
Ethyl methacrylate	<1.12	U	50.0	53.80		ug/L		108	70 - 130
Ethylbenzene	<0.385	U	50.0	53.24		ug/L		106	75 - 125
Hexane	<0.517	U	50.0	44.74		ug/L		89	72 - 125
Iodomethane	<6.52	U	50.0	46.56		ug/L		93	75 - 125

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74636-F-1 MS**  
**Matrix: Water**  
**Analysis Batch: 161379**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Isobutanol	<17.1	U	1240	1389		ug/L		112	60 - 140
Methacrylonitrile	<2.72	U	500	506.0		ug/L		101	70 - 130
Methyl methacrylate	<2.25	U	100	104.5		ug/L		104	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	49.59		ug/L		99	65 - 135
Methylene Chloride	<1.73	U	50.0	45.85		ug/L		92	75 - 125
Propionitrile	<3.34	U	500	502.4		ug/L		100	70 - 130
Propylbenzene	<0.429	U	50.0	54.01		ug/L		108	75 - 125
Styrene	<0.619	U	50.0	54.35		ug/L		109	75 - 125
Tetrachloroethene	<0.655	U	50.0	52.19		ug/L		104	71 - 125
Tetrahydrofuran	<1.83	U	100	102.0		ug/L		102	75 - 125
Toluene	<0.475	U	50.0	52.09		ug/L		104	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	49.11		ug/L		98	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	53.05		ug/L		106	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	49.43		ug/L		99	70 - 130
Trichloroethene	<1.50	U	50.0	52.03		ug/L		104	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	50.41		ug/L		101	60 - 140
Vinyl acetate	<2.14	U	250	194.9		ug/L		78	60 - 140
Vinyl chloride	<0.428	U	50.0	46.04		ug/L		92	60 - 140
Xylenes, Total	<1.24	U	100	107.3		ug/L		107	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05354		mg/L		107	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05372		mg/L		107	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: MB 860-161590/12**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/22/24 11:58	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/22/24 11:58	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/22/24 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/22/24 11:58	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/22/24 11:58	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/22/24 11:58	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/22/24 11:58	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/22/24 11:58	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/22/24 11:58	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/22/24 11:58	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/22/24 11:58	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/22/24 11:58	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/22/24 11:58	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/22/24 11:58	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/22/24 11:58	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-161590/12**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/22/24 11:58	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/22/24 11:58	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/22/24 11:58	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/22/24 11:58	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/22/24 11:58	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/22/24 11:58	1
Acetone	<3.07	U	100	3.07	ug/L			05/22/24 11:58	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/22/24 11:58	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/22/24 11:58	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/22/24 11:58	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/22/24 11:58	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/22/24 11:58	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/22/24 11:58	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/22/24 11:58	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/22/24 11:58	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/22/24 11:58	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/22/24 11:58	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/22/24 11:58	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/22/24 11:58	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/22/24 11:58	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/22/24 11:58	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/22/24 11:58	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/22/24 11:58	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/22/24 11:58	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/22/24 11:58	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/22/24 11:58	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/22/24 11:58	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/22/24 11:58	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/22/24 11:58	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/22/24 11:58	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/22/24 11:58	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/22/24 11:58	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/22/24 11:58	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/22/24 11:58	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/22/24 11:58	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/22/24 11:58	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/22/24 11:58	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/22/24 11:58	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/22/24 11:58	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/22/24 11:58	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/22/24 11:58	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/22/24 11:58	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/22/24 11:58	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/22/24 11:58	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/22/24 11:58	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/22/24 11:58	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/22/24 11:58	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/22/24 11:58	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/22/24 11:58	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-161590/12**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/22/24 11:58	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/22/24 11:58	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/22/24 11:58	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/22/24 11:58	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/22/24 11:58	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		05/22/24 11:58	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/22/24 11:58	1
Dibromofluoromethane (Surr)	98		75 - 131		05/22/24 11:58	1
Toluene-d8 (Surr)	98		80 - 120		05/22/24 11:58	1

**Lab Sample ID: LCS 860-161590/3**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	53.20		ug/L		106	72 - 125
1,1,1-Trichloroethane	50.0	50.08		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.42		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.63		ug/L		99	60 - 140
1,1,2-Trichloroethane	50.0	50.21		ug/L		100	75 - 130
1,1-Dichloroethane	50.0	49.20		ug/L		98	71 - 130
1,1-Dichloroethene	50.0	48.14		ug/L		96	50 - 150
1,2,3-Trichloropropane	50.0	51.56		ug/L		103	75 - 125
1,2,4-Trimethylbenzene	50.0	54.55		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.59		ug/L		105	59 - 125
1,2-Dibromoethane	50.0	51.56		ug/L		103	73 - 125
1,2-Dichloroethane	50.0	47.78		ug/L		96	72 - 130
1,2-Dichloropropane	50.0	50.06		ug/L		100	74 - 125
1,3,5-Trimethylbenzene	50.0	53.01		ug/L		106	60 - 140
1,3-Butadiene	50.0	44.24		ug/L		88	60 - 150
2,2,4-Trimethylpentane	50.0	54.11		ug/L		108	70 - 130
2-Butanone (MEK)	250	233.8		ug/L		94	60 - 140
2-Hexanone (MBK)	250	237.4		ug/L		95	60 - 140
2-Propanol	500	504.3		ug/L		101	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	48.06		ug/L		96	70 - 130
4-Methyl-2-pentanone	250	237.4		ug/L		95	60 - 140
Acetone	250	235.8		ug/L		94	60 - 140
Acetonitrile	500	452.9		ug/L		91	60 - 140
Acrolein	250	194.4		ug/L		78	60 - 140
Acrylonitrile	500	476.5		ug/L		95	60 - 140
Benzene	50.0	50.36		ug/L		101	75 - 125
Bromodichloromethane	50.0	51.57		ug/L		103	75 - 125
Bromoform	50.0	52.97		ug/L		106	70 - 130
Bromomethane	50.0	46.93		ug/L		94	60 - 140
Carbon disulfide	50.0	44.87		ug/L		90	60 - 140
Carbon tetrachloride	50.0	49.27		ug/L		99	70 - 125

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161590/3**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	51.46		ug/L		103	82 - 135
Chlorodibromomethane	50.0	51.76		ug/L		104	73 - 125
Chloroethane	50.0	48.75		ug/L		97	60 - 140
Chloroform	50.0	48.70		ug/L		97	70 - 121
Chloromethane	50.0	38.10		ug/L		76	60 - 140
Chloroprene	50.0	56.86		ug/L		114	70 - 130
cis-1,2-Dichloroethene	50.0	49.91		ug/L		100	75 - 125
cis-1,3-Dichloropropene	50.0	51.99		ug/L		104	74 - 125
Cumene (isopropylbenzene)	50.0	53.38		ug/L		107	75 - 125
Cyclohexane	50.0	47.32		ug/L		95	70 - 130
Dibromomethane	50.0	49.61		ug/L		99	69 - 127
Dichlorodifluoromethane	50.0	27.50		ug/L		55	50 - 150
Ethyl methacrylate	50.0	51.37		ug/L		103	70 - 130
Ethylbenzene	50.0	52.40		ug/L		105	75 - 125
Hexane	50.0	44.62		ug/L		89	72 - 125
Iodomethane	50.0	45.46		ug/L		91	75 - 125
Isobutanol	1240	1239		ug/L		100	60 - 140
Methacrylonitrile	500	542.0		ug/L		108	70 - 130
Methyl methacrylate	100	101.9		ug/L		102	70 - 130
Methyl tert-butyl ether	50.0	48.95		ug/L		98	65 - 135
Methylene Chloride	50.0	46.52		ug/L		93	71 - 125
Propionitrile	500	481.2		ug/L		96	70 - 130
Propylbenzene	50.0	53.07		ug/L		106	75 - 125
Styrene	50.0	53.63		ug/L		107	75 - 125
Tetrachloroethene	50.0	50.98		ug/L		102	71 - 125
Tetrahydrofuran	100	96.47		ug/L		96	75 - 125
Toluene	50.0	51.31		ug/L		103	75 - 130
trans-1,2-Dichloroethene	50.0	49.74		ug/L		99	75 - 125
trans-1,3-Dichloropropene	50.0	52.47		ug/L		105	66 - 125
trans-1,4-Dichloro-2-butene	50.0	49.48		ug/L		99	70 - 130
Trichloroethene	50.0	52.17		ug/L		104	75 - 135
Trichlorofluoromethane	50.0	52.48		ug/L		105	60 - 140
Vinyl acetate	250	249.4		ug/L		100	60 - 140
Vinyl chloride	50.0	45.19		ug/L		90	60 - 140
Xylenes, Total	100	105.1		ug/L		105	75 - 125
m,p-Xylenes	0.0500	0.05263		mg/L		105	75 - 125
o-Xylene	0.0500	0.05244		mg/L		105	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	98		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-161590/4**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	54.23		ug/L		108	72 - 125	2	25
1,1,1-Trichloroethane	50.0	49.38		ug/L		99	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	52.20		ug/L		104	74 - 125	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.54		ug/L		93	60 - 140	6	25
1,1,2-Trichloroethane	50.0	51.92		ug/L		104	75 - 130	3	25
1,1-Dichloroethane	50.0	49.18		ug/L		98	71 - 130	0	25
1,1-Dichloroethene	50.0	47.15		ug/L		94	50 - 150	2	25
1,2,3-Trichloropropane	50.0	53.16		ug/L		106	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	54.22		ug/L		108	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	55.79		ug/L		112	59 - 125	6	25
1,2-Dibromoethane	50.0	52.81		ug/L		106	73 - 125	2	25
1,2-Dichloroethane	50.0	47.87		ug/L		96	72 - 130	0	25
1,2-Dichloropropane	50.0	49.89		ug/L		100	74 - 125	0	25
1,3,5-Trimethylbenzene	50.0	52.81		ug/L		106	60 - 140	0	25
1,3-Butadiene	50.0	41.92		ug/L		84	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	52.24		ug/L		104	70 - 130	4	25
2-Butanone (MEK)	250	236.4		ug/L		95	60 - 140	1	25
2-Hexanone (MBK)	250	253.3		ug/L		101	60 - 140	6	25
2-Propanol	500	534.2		ug/L		107	70 - 120	6	25
3-Chloropropene (Allyl Chloride)	50.0	49.76		ug/L		100	70 - 130	3	25
4-Methyl-2-pentanone	250	246.4		ug/L		99	60 - 140	4	25
Acetone	250	251.1		ug/L		100	60 - 140	6	25
Acetonitrile	500	462.9		ug/L		93	60 - 140	2	25
Acrolein	250	209.2		ug/L		84	60 - 140	7	25
Acrylonitrile	500	482.1		ug/L		96	60 - 140	1	25
Benzene	50.0	49.92		ug/L		100	75 - 125	1	25
Bromodichloromethane	50.0	51.42		ug/L		103	75 - 125	0	25
Bromoform	50.0	54.20		ug/L		108	70 - 130	2	25
Bromomethane	50.0	47.91		ug/L		96	60 - 140	2	25
Carbon disulfide	50.0	42.86		ug/L		86	60 - 140	5	25
Carbon tetrachloride	50.0	47.13		ug/L		94	70 - 125	4	25
Chlorobenzene	50.0	52.50		ug/L		105	82 - 135	2	25
Chlorodibromomethane	50.0	52.43		ug/L		105	73 - 125	1	25
Chloroethane	50.0	48.59		ug/L		97	60 - 140	0	25
Chloroform	50.0	48.07		ug/L		96	70 - 121	1	25
Chloromethane	50.0	37.89		ug/L		76	60 - 140	1	25
Chloroprene	50.0	56.36		ug/L		113	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	49.22		ug/L		98	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	51.63		ug/L		103	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	53.74		ug/L		107	75 - 125	1	25
Cyclohexane	50.0	45.58		ug/L		91	70 - 130	4	25
Dibromomethane	50.0	50.10		ug/L		100	69 - 127	1	25
Dichlorodifluoromethane	50.0	25.63		ug/L		51	50 - 150	7	25
Ethyl methacrylate	50.0	53.73		ug/L		107	70 - 130	4	25
Ethylbenzene	50.0	53.11		ug/L		106	75 - 125	1	25
Hexane	50.0	41.59		ug/L		83	72 - 125	7	25
Iodomethane	50.0	44.90		ug/L		90	75 - 125	1	25
Isobutanol	1240	1310		ug/L		106	60 - 140	6	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-161590/4**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methacrylonitrile	500	548.4		ug/L		110	70 - 130	1	25
Methyl methacrylate	100	104.9		ug/L		105	70 - 130	3	25
Methyl tert-butyl ether	50.0	49.16		ug/L		98	65 - 135	0	25
Methylene Chloride	50.0	45.19		ug/L		90	71 - 125	3	25
Propionitrile	500	486.0		ug/L		97	70 - 130	1	25
Propylbenzene	50.0	53.31		ug/L		107	75 - 125	0	25
Styrene	50.0	54.57		ug/L		109	75 - 125	2	25
Tetrachloroethene	50.0	51.63		ug/L		103	71 - 125	1	25
Tetrahydrofuran	100	100.4		ug/L		100	75 - 125	4	25
Toluene	50.0	50.72		ug/L		101	75 - 130	1	25
trans-1,2-Dichloroethene	50.0	48.74		ug/L		97	75 - 125	2	25
trans-1,3-Dichloropropene	50.0	53.89		ug/L		108	66 - 125	3	25
trans-1,4-Dichloro-2-butene	50.0	50.49		ug/L		101	70 - 130	2	25
Trichloroethene	50.0	51.13		ug/L		102	75 - 135	2	25
Trichlorofluoromethane	50.0	49.34		ug/L		99	60 - 140	6	25
Vinyl acetate	250	247.6		ug/L		99	60 - 140	1	25
Vinyl chloride	50.0	43.47		ug/L		87	60 - 140	4	25
Xylenes, Total	100	107.6		ug/L		108	75 - 125	2	25
m,p-Xylenes	0.0500	0.05398		mg/L		108	75 - 125	3	25
o-Xylene	0.0500	0.05361		mg/L		107	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: 860-74380-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 161590**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<3.22	U	250	259.2		ug/L		104	72 - 125
1,1,1-Trichloroethane	<2.93	U	250	242.0		ug/L		97	75 - 125
1,1,2,2-Tetrachloroethane	<2.35	U	250	255.2		ug/L		102	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.55	U	250	223.6		ug/L		89	60 - 140
1,1,2-Trichloroethane	<2.06	U	250	250.5		ug/L		100	75 - 127
1,1-Dichloroethane	<3.18	U	250	231.5		ug/L		93	72 - 125
1,1-Dichloroethene	<3.69	U	250	219.2		ug/L		88	59 - 172
1,2,3-Trichloropropane	<2.35	U	250	261.8		ug/L		105	75 - 125
1,2,4-Trimethylbenzene	<2.09	U	250	269.4		ug/L		108	75 - 125
1,2-Dibromo-3-Chloropropane	<3.36	U	250	272.1		ug/L		109	59 - 125
1,2-Dibromoethane	<5.00	U	250	252.6		ug/L		101	73 - 125
1,2-Dichloroethane	<1.86	U	250	233.4		ug/L		93	68 - 127
1,2-Dichloropropane	<2.78	U	250	243.2		ug/L		97	74 - 125
1,3,5-Trimethylbenzene	<2.06	U	250	262.8		ug/L		105	70 - 125
1,3-Butadiene	<2.84	U F1	250	127.7	F1	ug/L		51	70 - 150
2,2,4-Trimethylpentane	<2.50	U	250	275.5		ug/L		110	70 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74380-B-1 MS**

**Matrix: Water**

**Analysis Batch: 161590**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
2-Butanone (MEK)	<41.4	U	1250	1199		ug/L		96	60 - 140
2-Hexanone (MBK)	<37.2	U	1250	1234		ug/L		99	60 - 140
2-Propanol	<26.1	U	2500	2695		ug/L		108	70 - 120
3-Chloropropene (Allyl Chloride)	<2.99	U	250	215.5		ug/L		86	70 - 130
4-Methyl-2-pentanone	<37.5	U	1250	1222		ug/L		98	60 - 140
Acetone	<15.3	U	1250	1201		ug/L		96	60 - 140
Acetonitrile	<73.0	U	2500	2325		ug/L		93	60 - 140
Acrolein	<55.6	U	1250	1070		ug/L		86	50 - 150
Acrylonitrile	<71.6	U	2500	2391		ug/L		96	50 - 150
alpha-Chlorotoluene	<11.3	U **	250	322.2		ug/L		129	70 - 130
Benzene	<2.30	U	250	244.7		ug/L		98	66 - 142
Bromodichloromethane	<2.76	U	250	253.0		ug/L		101	75 - 125
Bromoform	<3.17	U	250	261.3		ug/L		105	75 - 125
Bromomethane	<7.10	U	250	177.2		ug/L		71	60 - 140
Carbon disulfide	<8.25	U	250	195.3		ug/L		78	60 - 140
Carbon tetrachloride	<4.48	U	250	238.8		ug/L		96	62 - 125
Chlorobenzene	<2.28	U	250	254.3		ug/L		102	60 - 133
Chlorodibromomethane	<2.74	U	250	254.5		ug/L		102	73 - 125
Chloroethane	<9.92	U	250	179.0		ug/L		72	60 - 140
Chloroform	2.66	J	250	232.3		ug/L		92	70 - 130
Chloromethane	<10.2	U F1	250	114.3	F1	ug/L		46	60 - 140
Chloroprene	<2.99	U	250	272.6		ug/L		109	70 - 130
cis-1,2-Dichloroethene	<2.29	U	250	251.0		ug/L		100	75 - 125
cis-1,3-Dichloropropene	<5.34	U	250	249.8		ug/L		100	74 - 125
Cumene (isopropylbenzene)	<2.96	U	250	269.4		ug/L		108	75 - 125
Cyclohexane	<6.43	U	250	228.2		ug/L		91	70 - 130
Dibromomethane	<1.79	U	250	244.2		ug/L		98	69 - 127
Dichlorodifluoromethane	<3.93	U F1	250	59.77	F1	ug/L		24	70 - 130
Ethyl methacrylate	<5.59	U	250	260.7		ug/L		104	70 - 130
Ethylbenzene	<1.93	U	250	256.3		ug/L		103	75 - 125
Hexane	<2.59	U	250	203.0		ug/L		81	72 - 125
Iodomethane	<32.6	U F1	250	166.3	F1	ug/L		67	75 - 125
Isobutanol	<85.5	U	6200	6896		ug/L		111	60 - 140
Methacrylonitrile	<13.6	U	2500	2690		ug/L		108	70 - 130
Methyl methacrylate	<11.3	U	500	517.3		ug/L		103	70 - 130
Methyl tert-butyl ether	<6.96	U	250	237.5		ug/L		95	65 - 135
Methylene Chloride	<8.63	U	250	213.9		ug/L		86	75 - 125
Propionitrile	<16.7	U	2500	2424		ug/L		97	70 - 130
Propylbenzene	<2.15	U	250	267.6		ug/L		107	75 - 125
Styrene	<3.10	U	250	263.1		ug/L		105	75 - 125
Tetrachloroethene	<3.28	U	250	257.1		ug/L		103	71 - 125
Tetrahydrofuran	<9.17	U	500	487.9		ug/L		98	75 - 125
Toluene	<2.38	U	250	249.2		ug/L		100	59 - 139
trans-1,2-Dichloroethene	<1.84	U	250	232.0		ug/L		93	75 - 125
trans-1,3-Dichloropropene	<6.34	U	250	256.4		ug/L		103	66 - 125
trans-1,4-Dichloro-2-butene	<6.75	U	250	254.5		ug/L		102	70 - 130
Trichloroethene	176		250	445.4		ug/L		108	62 - 137
Trichlorofluoromethane	<2.80	U	250	186.6		ug/L		75	60 - 140
Vinyl acetate	<10.7	U	1250	1215		ug/L		97	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74380-B-1 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 161590**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Vinyl chloride	<2.14	U F1	250	136.3	F1	ug/L		55	60 - 140
Xylenes, Total	<6.20	U	500	515.4		ug/L		103	75 - 125
m,p-Xylenes	<0.00620	U	0.250	0.2570		mg/L		103	75 - 125
o-Xylene	<0.00251	U	0.250	0.2584		mg/L		103	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: MB 860-161868/9**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 161868**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			05/23/24 10:39	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			05/23/24 10:39	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			05/23/24 10:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			05/23/24 10:39	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			05/23/24 10:39	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			05/23/24 10:39	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			05/23/24 10:39	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			05/23/24 10:39	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			05/23/24 10:39	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			05/23/24 10:39	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			05/23/24 10:39	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			05/23/24 10:39	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			05/23/24 10:39	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			05/23/24 10:39	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			05/23/24 10:39	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			05/23/24 10:39	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			05/23/24 10:39	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			05/23/24 10:39	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			05/23/24 10:39	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			05/23/24 10:39	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			05/23/24 10:39	1
Acetone	<3.07	U	100	3.07	ug/L			05/23/24 10:39	1
Acetonitrile	<14.6	U	100	14.6	ug/L			05/23/24 10:39	1
Acrolein	<11.1	U	50.0	11.1	ug/L			05/23/24 10:39	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			05/23/24 10:39	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			05/23/24 10:39	1
Benzene	<0.460	U	1.00	0.460	ug/L			05/23/24 10:39	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			05/23/24 10:39	1
Bromoform	<0.633	U	5.00	0.633	ug/L			05/23/24 10:39	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			05/23/24 10:39	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			05/23/24 10:39	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			05/23/24 10:39	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 860-161868/9**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			05/23/24 10:39	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			05/23/24 10:39	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			05/23/24 10:39	1
Chloroform	<0.464	U	1.00	0.464	ug/L			05/23/24 10:39	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			05/23/24 10:39	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			05/23/24 10:39	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			05/23/24 10:39	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			05/23/24 10:39	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			05/23/24 10:39	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			05/23/24 10:39	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			05/23/24 10:39	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			05/23/24 10:39	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			05/23/24 10:39	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			05/23/24 10:39	1
Hexane	<0.517	U	5.00	0.517	ug/L			05/23/24 10:39	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			05/23/24 10:39	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			05/23/24 10:39	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			05/23/24 10:39	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			05/23/24 10:39	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			05/23/24 10:39	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			05/23/24 10:39	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			05/23/24 10:39	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			05/23/24 10:39	1
Styrene	<0.619	U	1.00	0.619	ug/L			05/23/24 10:39	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			05/23/24 10:39	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			05/23/24 10:39	1
Toluene	<0.475	U	1.00	0.475	ug/L			05/23/24 10:39	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			05/23/24 10:39	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			05/23/24 10:39	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			05/23/24 10:39	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			05/23/24 10:39	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			05/23/24 10:39	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			05/23/24 10:39	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			05/23/24 10:39	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			05/23/24 10:39	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			05/23/24 10:39	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			05/23/24 10:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	116		63 - 144		05/23/24 10:39	1
4-Bromofluorobenzene (Surr)	115		74 - 124		05/23/24 10:39	1
Dibromofluoromethane (Surr)	117		75 - 131		05/23/24 10:39	1
Toluene-d8 (Surr)	104		80 - 120		05/23/24 10:39	1



# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161868/3**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.27		ug/L		105	72 - 125
1,1,1-Trichloroethane	50.0	58.14		ug/L		116	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.13		ug/L		102	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.81		ug/L		114	60 - 140
1,1,2-Trichloroethane	50.0	51.32		ug/L		103	75 - 130
1,1-Dichloroethane	50.0	49.18		ug/L		98	71 - 130
1,1-Dichloroethene	50.0	51.21		ug/L		102	50 - 150
1,2,3-Trichloropropane	50.0	50.93		ug/L		102	75 - 125
1,2,4-Trimethylbenzene	50.0	51.74		ug/L		103	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	50.49		ug/L		101	59 - 125
1,2-Dibromoethane	50.0	52.27		ug/L		105	73 - 125
1,2-Dichloroethane	50.0	50.97		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	50.64		ug/L		101	74 - 125
1,3,5-Trimethylbenzene	50.0	51.84		ug/L		104	60 - 140
1,3-Butadiene	50.0	46.86		ug/L		94	60 - 150
2,2,4-Trimethylpentane	50.0	53.91		ug/L		108	70 - 130
2-Butanone (MEK)	250	224.5		ug/L		90	60 - 140
2-Hexanone (MBK)	250	236.3		ug/L		95	60 - 140
3-Chloropropene (Allyl Chloride)	50.0	47.17		ug/L		94	70 - 130
4-Methyl-2-pentanone	250	238.7		ug/L		95	60 - 140
Acetone	250	225.2		ug/L		90	60 - 140
Acetonitrile	500	472.3		ug/L		94	60 - 140
Acrolein	250	255.8		ug/L		102	60 - 140
Acrylonitrile	500	513.3		ug/L		103	60 - 140
alpha-Chlorotoluene	50.0	54.16		ug/L		108	75 - 125
Benzene	50.0	49.83		ug/L		100	75 - 125
Bromodichloromethane	50.0	51.61		ug/L		103	75 - 125
Bromoform	50.0	42.09		ug/L		84	70 - 130
Bromomethane	50.0	51.16		ug/L		102	60 - 140
Carbon disulfide	50.0	52.69		ug/L		105	60 - 140
Carbon tetrachloride	50.0	54.85		ug/L		110	70 - 125
Chlorobenzene	50.0	51.15		ug/L		102	82 - 135
Chlorodibromomethane	50.0	51.47		ug/L		103	73 - 125
Chloroethane	50.0	53.02		ug/L		106	60 - 140
Chloroform	50.0	55.57		ug/L		111	70 - 121
Chloromethane	50.0	44.89		ug/L		90	60 - 140
Chloroprene	50.0	52.82		ug/L		106	70 - 130
cis-1,2-Dichloroethene	50.0	53.24		ug/L		106	75 - 125
cis-1,3-Dichloropropene	50.0	50.33		ug/L		101	74 - 125
Cumene (isopropylbenzene)	50.0	52.68		ug/L		105	75 - 125
Cyclohexane	50.0	56.30		ug/L		113	70 - 130
Dibromomethane	50.0	48.29		ug/L		97	69 - 127
Dichlorodifluoromethane	50.0	53.92		ug/L		108	50 - 150
Ethyl methacrylate	50.0	50.04		ug/L		100	70 - 130
Ethylbenzene	50.0	50.90		ug/L		102	75 - 125
Hexane	50.0	54.52		ug/L		109	72 - 125
Iodomethane	50.0	50.57		ug/L		101	75 - 125
Isobutanol	1240	921.8		ug/L		74	60 - 140

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 860-161868/3**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methacrylonitrile	500	513.4		ug/L		103	70 - 130
Methyl methacrylate	100	111.9		ug/L		112	70 - 130
Methyl tert-butyl ether	50.0	52.50		ug/L		105	65 - 135
Methylene Chloride	50.0	50.39		ug/L		101	71 - 125
Propionitrile	500	524.8		ug/L		105	70 - 130
Propylbenzene	50.0	52.39		ug/L		105	75 - 125
Styrene	50.0	51.47		ug/L		103	75 - 125
Tetrachloroethene	50.0	51.46		ug/L		103	71 - 125
Tetrahydrofuran	100	98.88		ug/L		99	75 - 125
Toluene	50.0	50.96		ug/L		102	75 - 130
trans-1,2-Dichloroethene	50.0	51.55		ug/L		103	75 - 125
trans-1,3-Dichloropropene	50.0	50.12		ug/L		100	66 - 125
trans-1,4-Dichloro-2-butene	50.0	52.32		ug/L		105	70 - 130
Trichloroethene	50.0	51.98		ug/L		104	75 - 135
Trichlorofluoromethane	50.0	60.38		ug/L		121	60 - 140
Vinyl acetate	250	256.4		ug/L		103	60 - 140
Vinyl chloride	50.0	51.65		ug/L		103	60 - 140
Xylenes, Total	100	102.3		ug/L		102	75 - 125
m,p-Xylenes	0.0500	0.05168		mg/L		103	75 - 125
o-Xylene	0.0500	0.05065		mg/L		101	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: LCSD 860-161868/4**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	55.35		ug/L		111	72 - 125	6	25
1,1,1-Trichloroethane	50.0	59.21		ug/L		118	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	50.96		ug/L		102	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.83		ug/L		112	60 - 140	2	25
1,1,2-Trichloroethane	50.0	53.27		ug/L		107	75 - 130	4	25
1,1-Dichloroethane	50.0	51.28		ug/L		103	71 - 130	4	25
1,1-Dichloroethene	50.0	51.32		ug/L		103	50 - 150	0	25
1,2,3-Trichloropropane	50.0	50.90		ug/L		102	75 - 125	0	25
1,2,4-Trimethylbenzene	50.0	52.43		ug/L		105	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	48.51		ug/L		97	59 - 125	4	25
1,2-Dibromoethane	50.0	53.99		ug/L		108	73 - 125	3	25
1,2-Dichloroethane	50.0	53.30		ug/L		107	72 - 130	4	25
1,2-Dichloropropane	50.0	53.34		ug/L		107	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	52.52		ug/L		105	60 - 140	1	25
1,3-Butadiene	50.0	49.42		ug/L		99	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	52.74		ug/L		105	70 - 130	2	25

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-161868/4**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	250	221.9		ug/L		89	60 - 140	1	25
2-Hexanone (MBK)	250	233.4		ug/L		93	60 - 140	1	25
3-Chloropropene (Allyl Chloride)	50.0	46.83		ug/L		94	70 - 130	1	25
4-Methyl-2-pentanone	250	235.7		ug/L		94	60 - 140	1	25
Acetone	250	219.0		ug/L		88	60 - 140	3	25
Acetonitrile	500	469.0		ug/L		94	60 - 140	1	25
Acrolein	250	237.5		ug/L		95	60 - 140	7	25
Acrylonitrile	500	498.7		ug/L		100	60 - 140	3	25
alpha-Chlorotoluene	50.0	56.14		ug/L		112	75 - 125	4	25
Benzene	50.0	51.95		ug/L		104	75 - 125	4	25
Bromodichloromethane	50.0	53.96		ug/L		108	75 - 125	4	25
Bromoform	50.0	43.56		ug/L		87	70 - 130	3	25
Bromomethane	50.0	54.57		ug/L		109	60 - 140	6	25
Carbon disulfide	50.0	53.62		ug/L		107	60 - 140	2	25
Carbon tetrachloride	50.0	55.18		ug/L		110	70 - 125	1	25
Chlorobenzene	50.0	53.34		ug/L		107	82 - 135	4	25
Chlorodibromomethane	50.0	53.95		ug/L		108	73 - 125	5	25
Chloroethane	50.0	59.26		ug/L		119	60 - 140	11	25
Chloroform	50.0	57.58		ug/L		115	70 - 121	4	25
Chloromethane	50.0	47.52		ug/L		95	60 - 140	6	25
Chloroprene	50.0	53.52		ug/L		107	70 - 130	1	25
cis-1,2-Dichloroethene	50.0	54.97		ug/L		110	75 - 125	3	25
cis-1,3-Dichloropropene	50.0	53.14		ug/L		106	74 - 125	5	25
Cumene (isopropylbenzene)	50.0	53.95		ug/L		108	75 - 125	2	25
Cyclohexane	50.0	55.60		ug/L		111	70 - 130	1	25
Dibromomethane	50.0	49.73		ug/L		99	69 - 127	3	25
Dichlorodifluoromethane	50.0	56.02		ug/L		112	50 - 150	4	25
Ethyl methacrylate	50.0	51.46		ug/L		103	70 - 130	3	25
Ethylbenzene	50.0	53.00		ug/L		106	75 - 125	4	25
Hexane	50.0	52.72		ug/L		105	72 - 125	3	25
Iodomethane	50.0	52.56		ug/L		105	75 - 125	4	25
Isobutanol	1240	887.5		ug/L		72	60 - 140	4	25
Methacrylonitrile	500	506.8		ug/L		101	70 - 130	1	25
Methyl methacrylate	100	108.9		ug/L		109	70 - 130	3	25
Methyl tert-butyl ether	50.0	53.52		ug/L		107	65 - 135	2	25
Methylene Chloride	50.0	51.97		ug/L		104	71 - 125	3	25
Propionitrile	500	511.1		ug/L		102	70 - 130	3	25
Propylbenzene	50.0	52.95		ug/L		106	75 - 125	1	25
Styrene	50.0	53.97		ug/L		108	75 - 125	5	25
Tetrachloroethene	50.0	52.40		ug/L		105	71 - 125	2	25
Tetrahydrofuran	100	94.14		ug/L		94	75 - 125	5	25
Toluene	50.0	53.11		ug/L		106	75 - 130	4	25
trans-1,2-Dichloroethene	50.0	52.32		ug/L		105	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	53.08		ug/L		106	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	51.15		ug/L		102	70 - 130	2	25
Trichloroethene	50.0	53.82		ug/L		108	75 - 135	3	25
Trichlorofluoromethane	50.0	64.44		ug/L		129	60 - 140	7	25
Vinyl acetate	250	264.5		ug/L		106	60 - 140	3	25
Vinyl chloride	50.0	55.31		ug/L		111	60 - 140	7	25

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 860-161868/4**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS D Result	LCS D Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	100	106.4		ug/L		106	75 - 125	4	25
m,p-Xylenes	0.0500	0.05361		mg/L		107	75 - 125	4	25
o-Xylene	0.0500	0.05276		mg/L		106	75 - 125	4	25

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: 860-74659-W-1 MS**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	54.08		ug/L		108	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	56.62		ug/L		113	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	49.74		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	49.23		ug/L		98	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.84		ug/L		104	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	48.71		ug/L		97	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	47.23		ug/L		94	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	49.18		ug/L		98	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	50.71		ug/L		101	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	49.86		ug/L		100	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	52.59		ug/L		105	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	50.79		ug/L		102	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	50.70		ug/L		101	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	50.35		ug/L		101	70 - 125
1,3-Butadiene	<0.568	U	50.0	42.71		ug/L		85	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	47.78		ug/L		96	70 - 130
2-Butanone (MEK)	<8.28	U	250	225.4		ug/L		90	60 - 140
2-Hexanone (MBK)	<7.45	U	250	235.4		ug/L		94	60 - 140
2-Propanol	<5.23	U *- F1	500	<5.23	U F1	ug/L		0	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	44.55		ug/L		89	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	236.1		ug/L		94	60 - 140
Acetone	13.9	J	250	231.5		ug/L		87	60 - 140
Acetonitrile	<14.6	U	500	446.1		ug/L		89	60 - 140
Acrolein	<11.1	U F1	250	106.0	F1	ug/L		42	50 - 150
Acrylonitrile	<14.3	U	500	492.7		ug/L		99	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	54.18		ug/L		108	70 - 130
Benzene	<0.460	U	50.0	49.39		ug/L		99	66 - 142
Bromodichloromethane	<0.552	U	50.0	51.87		ug/L		104	75 - 125
Bromoform	<0.633	U	50.0	43.62		ug/L		87	75 - 125
Bromomethane	<1.42	U	50.0	48.83		ug/L		98	60 - 140
Carbon disulfide	<1.65	U	50.0	47.31		ug/L		95	60 - 140
Carbon tetrachloride	<0.896	U	50.0	52.69		ug/L		105	62 - 125
Chlorobenzene	<0.455	U	50.0	51.52		ug/L		103	60 - 133

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 860-74659-W-1 MS**  
**Matrix: Water**  
**Analysis Batch: 161868**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorodibromomethane	<0.547	U	50.0	52.84		ug/L		106	73 - 125
Chloroethane	<1.98	U	50.0	51.98		ug/L		104	60 - 140
Chloroform	<0.464	U	50.0	55.39		ug/L		111	70 - 130
Chloromethane	<2.04	U	50.0	40.95		ug/L		82	60 - 140
Chloroprene	<0.598	U	50.0	51.36		ug/L		103	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	53.14		ug/L		106	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	51.22		ug/L		102	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	52.75		ug/L		106	75 - 125
Cyclohexane	<1.29	U	50.0	53.64		ug/L		107	70 - 130
Dibromomethane	<0.357	U	50.0	48.62		ug/L		97	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	41.62		ug/L		83	70 - 130
Ethyl methacrylate	<1.12	U	50.0	50.42		ug/L		101	70 - 130
Ethylbenzene	<0.385	U	50.0	51.10		ug/L		102	75 - 125
Hexane	<0.517	U	50.0	50.01		ug/L		100	72 - 125
Iodomethane	<6.52	U	50.0	48.83		ug/L		98	75 - 125
Isobutanol	<17.1	U	1240	756.5		ug/L		61	60 - 140
Methacrylonitrile	<2.72	U	500	504.6		ug/L		101	70 - 130
Methyl methacrylate	<2.25	U	100	100.7		ug/L		101	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	51.79		ug/L		104	65 - 135
Methylene Chloride	<1.73	U	50.0	48.84		ug/L		98	75 - 125
Propionitrile	<3.34	U	500	512.0		ug/L		102	70 - 130
Propylbenzene	<0.429	U	50.0	50.81		ug/L		102	75 - 125
Styrene	<0.619	U	50.0	52.15		ug/L		104	75 - 125
Tetrachloroethene	<0.655	U	50.0	51.31		ug/L		103	71 - 125
Tetrahydrofuran	<1.83	U	100	92.35		ug/L		92	75 - 125
Toluene	<0.475	U	50.0	50.99		ug/L		102	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	49.15		ug/L		98	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	51.23		ug/L		102	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	50.16		ug/L		100	70 - 130
Trichloroethene	<1.50	U	50.0	52.07		ug/L		104	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	56.07		ug/L		112	60 - 140
Vinyl acetate	<2.14	U	250	252.6		ug/L		101	60 - 140
Vinyl chloride	<0.428	U	50.0	47.87		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	103.1		ug/L		103	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05206		mg/L		104	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05105		mg/L		102	75 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
Toluene-d8 (Surr)	99		80 - 120

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 860-161376/1-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,2'-oxybis[1-chloropropane]	<1.43	U	2.86	1.43	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,4-Dioxane	<0.0890	U	0.571	0.0890	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Methylnaphthalene	<0.0603	U	0.571	0.0603	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Nitroaniline	<0.149	U	0.571	0.149	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		05/21/24 06:26	05/22/24 19:42	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		05/21/24 06:26	05/22/24 19:42	1
3-Nitroaniline	<0.0853	U	0.571	0.0853	ug/L		05/21/24 06:26	05/22/24 19:42	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Chloroaniline	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Nitroaniline	<0.109	U	0.571	0.109	ug/L		05/21/24 06:26	05/22/24 19:42	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 19:42	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		05/21/24 06:26	05/22/24 19:42	1
Aniline	<0.0580	U	0.571	0.0580	ug/L		05/21/24 06:26	05/22/24 19:42	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		05/21/24 06:26	05/22/24 19:42	1
Benzo[a]anthracene	<0.0286	U	0.0286	0.0286	ug/L		05/21/24 06:26	05/22/24 19:42	1
Benzo[a]pyrene	<0.0100	U	0.0571	0.0100	ug/L		05/21/24 06:26	05/22/24 19:42	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		05/21/24 06:26	05/22/24 19:42	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		05/21/24 06:26	05/22/24 19:42	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		05/21/24 06:26	05/22/24 19:42	1
Benzyl alcohol	0.9315	J	1.14	0.600	ug/L		05/21/24 06:26	05/22/24 19:42	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		05/21/24 06:26	05/22/24 19:42	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		05/21/24 06:26	05/22/24 19:42	1
Bis(2-ethylhexyl) phthalate	<0.900	U	1.14	0.900	ug/L		05/21/24 06:26	05/22/24 19:42	1
Butyl benzyl phthalate	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/22/24 19:42	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		05/21/24 06:26	05/22/24 19:42	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		05/21/24 06:26	05/22/24 19:42	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 19:42	1
Diethyl phthalate	<0.155	U	1.14	0.155	ug/L		05/21/24 06:26	05/22/24 19:42	1
Dimethyl phthalate	<0.108	U	1.14	0.108	ug/L		05/21/24 06:26	05/22/24 19:42	1
Di-n-butyl phthalate	<0.765	U	1.14	0.765	ug/L		05/21/24 06:26	05/22/24 19:42	1
Di-n-octyl phthalate	<0.269	U	1.14	0.269	ug/L		05/21/24 06:26	05/22/24 19:42	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		05/21/24 06:26	05/22/24 19:42	1

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161376/1-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	<0.0948	U	0.571	0.0948	ug/L		05/21/24 06:26	05/22/24 19:42	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		05/21/24 06:26	05/22/24 19:42	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		05/21/24 06:26	05/22/24 19:42	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		05/21/24 06:26	05/22/24 19:42	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		05/21/24 06:26	05/22/24 19:42	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 19:42	1
Isophorone	<0.107	U	0.571	0.107	ug/L		05/21/24 06:26	05/22/24 19:42	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		05/21/24 06:26	05/22/24 19:42	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		05/21/24 06:26	05/22/24 19:42	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		05/21/24 06:26	05/22/24 19:42	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		05/21/24 06:26	05/22/24 19:42	1
Phenol	<0.448	U	2.86	0.448	ug/L		05/21/24 06:26	05/22/24 19:42	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		05/21/24 06:26	05/22/24 19:42	1
Pyridine	<1.44	U	2.86	1.44	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitro-o-toluidine	<0.520	U	1.14	0.520	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,3,4,6-Tetrachlorophenol	<0.211	U	0.571	0.211	ug/L		05/21/24 06:26	05/22/24 19:42	1
Acetophenone	<0.624	U	1.14	0.624	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosopiperidine	<0.467	U	1.14	0.467	ug/L		05/21/24 06:26	05/22/24 19:42	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		05/21/24 06:26	05/22/24 19:42	1
Diphenyl ether	<0.0910	U	0.571	0.0910	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,1'-Biphenyl	<0.0981	U	0.571	0.0981	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Aminobiphenyl	<0.394	U	0.571	0.394	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,3,5-Trinitrobenzene	<0.119	U	0.571	0.119	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,3-Dinitrobenzene	<0.0773	U	0.571	0.0773	ug/L		05/21/24 06:26	05/22/24 19:42	1
1,4-Naphthoquinone	<0.314	U	0.571	0.314	ug/L		05/21/24 06:26	05/22/24 19:42	1
1-Naphthylamine	<0.149	U	0.571	0.149	ug/L		05/21/24 06:26	05/22/24 19:42	1
2,6-Dichlorophenol	<0.118	U	0.571	0.118	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Acetylaminofluorene	<1.26	U	2.86	1.26	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Naphthylamine	<0.288	U	0.571	0.288	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Picoline	<0.123	U	0.571	0.123	ug/L		05/21/24 06:26	05/22/24 19:42	1
2-Toluidine	<0.306	U	0.571	0.306	ug/L		05/21/24 06:26	05/22/24 19:42	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		05/21/24 06:26	05/22/24 19:42	1
3,3'-Dimethylbenzidine	<0.142	U	0.571	0.142	ug/L		05/21/24 06:26	05/22/24 19:42	1
3-Methylcholanthrene	<0.104	U	0.571	0.104	ug/L		05/21/24 06:26	05/22/24 19:42	1
4-Nitroquinoline-1-oxide	<0.730	U	1.14	0.730	ug/L		05/21/24 06:26	05/22/24 19:42	1
7,12-Dimethylbenz(a)anthracene	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 19:42	1
alpha,alpha-Dimethyl phenethylamine	<3.67	U	5.71	3.67	ug/L		05/21/24 06:26	05/22/24 19:42	1
Aramite Peak 1	<0.0785	U	0.571	0.0785	ug/L		05/21/24 06:26	05/22/24 19:42	1
Aramite Peak 2	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/22/24 19:42	1
Aramite, Total	<0.0954	U	0.571	0.0954	ug/L		05/21/24 06:26	05/22/24 19:42	1
Diallate	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/22/24 19:42	1
Diallate Peak 1	<0.0835	U	0.571	0.0835	ug/L		05/21/24 06:26	05/22/24 19:42	1
Diallate Peak 2	<0.0385	U	0.571	0.0385	ug/L		05/21/24 06:26	05/22/24 19:42	1
Dimethoate	<0.122	U	0.571	0.122	ug/L		05/21/24 06:26	05/22/24 19:42	1
Dinoseb	<0.570	U	0.571	0.570	ug/L		05/21/24 06:26	05/22/24 19:42	1

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# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 860-161376/1-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Disulfoton	<0.203	U	0.571	0.203	ug/L		05/21/24 06:26	05/22/24 19:42	1
Ethyl methanesulfonate	<0.227	U	0.571	0.227	ug/L		05/21/24 06:26	05/22/24 19:42	1
Ethyl Parathion	<0.0502	U	0.229	0.0502	ug/L		05/21/24 06:26	05/22/24 19:42	1
Famphur	<0.151	U	1.14	0.151	ug/L		05/21/24 06:26	05/22/24 19:42	1
Hexachloropropene	<0.300	U	0.571	0.300	ug/L		05/21/24 06:26	05/22/24 19:42	1
Isosafrole	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 19:42	1
Isosafrole Peak 1	<0.0463	U	0.571	0.0463	ug/L		05/21/24 06:26	05/22/24 19:42	1
Isosafrole Peak 2	<0.241	U	0.571	0.241	ug/L		05/21/24 06:26	05/22/24 19:42	1
Methapyrilene	<1.00	U	2.29	1.00	ug/L		05/21/24 06:26	05/22/24 19:42	1
Methyl methanesulfonate	<0.120	U	0.571	0.120	ug/L		05/21/24 06:26	05/22/24 19:42	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosomorpholine	<0.220	U	0.571	0.220	ug/L		05/21/24 06:26	05/22/24 19:42	1
N-Nitrosopyrrolidine	<0.268	U	0.571	0.268	ug/L		05/21/24 06:26	05/22/24 19:42	1
o,o',o"-Triethylphosphorothioate	<0.138	U	0.571	0.138	ug/L		05/21/24 06:26	05/22/24 19:42	1
p-Dimethylamino azobenzene	<0.0238	U	0.571	0.0238	ug/L		05/21/24 06:26	05/22/24 19:42	1
Pentachloronitrobenzene	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 19:42	1
Phenacetin	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 19:42	1
Phorate	<0.221	U	0.571	0.221	ug/L		05/21/24 06:26	05/22/24 19:42	1
p-Phenylene diamine	<0.500	U	1.14	0.500	ug/L		05/21/24 06:26	05/22/24 19:42	1
Pronamide	<0.100	U	0.571	0.100	ug/L		05/21/24 06:26	05/22/24 19:42	1
Safrole, Total	<0.0571	U	0.571	0.0571	ug/L		05/21/24 06:26	05/22/24 19:42	1
Sulfotepp	<0.147	U	0.571	0.147	ug/L		05/21/24 06:26	05/22/24 19:42	1
Thionazin	<0.208	U	1.14	0.208	ug/L		05/21/24 06:26	05/22/24 19:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	100		35 - 130	05/21/24 06:26	05/22/24 19:42	1
2-Fluorobiphenyl	93		43 - 130	05/21/24 06:26	05/22/24 19:42	1
2-Fluorophenol (Surr)	69		19 - 120	05/21/24 06:26	05/22/24 19:42	1
Nitrobenzene-d5 (Surr)	112		37 - 133	05/21/24 06:26	05/22/24 19:42	1
Phenol-d5 (Surr)	42		8 - 124	05/21/24 06:26	05/22/24 19:42	1
p-Terphenyl-d14	99		47 - 130	05/21/24 06:26	05/22/24 19:42	1

**Lab Sample ID: LCS 860-161376/2-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	2.86	1.843		ug/L		65	32 - 130
1,3-Dichlorobenzene	2.86	1.576		ug/L		55	26 - 130
1,4-Dichlorobenzene	2.86	1.615		ug/L		57	28 - 130
2,2'-oxybis[1-chloropropane]	2.86	2.529	J	ug/L		89	10 - 173
2,4,5-Trichlorophenol	2.86	3.169		ug/L		111	35 - 130
2,4,6-Trichlorophenol	2.86	2.940		ug/L		103	52 - 129

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161376/2-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	2.86	2.806		ug/L		98	53 - 122
2,4-Dimethylphenol	2.86	1.527		ug/L		53	42 - 120
1,4-Dioxane	2.86	1.124		ug/L		39	27 - 130
2,4-Dinitrophenol	2.86	1.542	J	ug/L		54	12 - 173
2,4-Dinitrotoluene	2.86	2.807		ug/L		98	48 - 127
2,6-Dinitrotoluene	2.86	2.897		ug/L		101	68 - 137
2-Chloronaphthalene	2.86	2.056		ug/L		72	10 - 130
2-Methylnaphthalene	2.86	2.058		ug/L		72	25 - 175
2-Methylphenol	2.86	2.447		ug/L		86	14 - 176
2-Nitroaniline	2.86	1.884		ug/L		66	59 - 130
2-Nitrophenol	2.86	3.038		ug/L		106	45 - 167
3 & 4 Methylphenol	2.86	2.135		ug/L		75	22 - 130
3-Nitroaniline	2.86	1.296		ug/L		45	30 - 130
4,6-Dinitro-2-methylphenol	2.86	1.779		ug/L		62	10 - 130
4-Bromophenyl phenyl ether	2.86	2.484		ug/L		87	65 - 120
4-Chloro-3-methylphenol	2.86	2.808		ug/L		98	41 - 128
4-Chloroaniline	2.86	1.307		ug/L		46	30 - 130
4-Chlorophenyl phenyl ether	2.86	2.292		ug/L		80	38 - 145
4-Nitroaniline	2.86	1.120	*-	ug/L		39	42 - 125
Acenaphthene	2.86	2.492		ug/L		87	60 - 132
Acenaphthylene	2.86	2.493		ug/L		87	54 - 126
Aniline	2.86	1.125		ug/L		39	15 - 130
Anthracene	2.86	2.653		ug/L		93	43 - 135
Benzo[a]anthracene	2.86	3.037		ug/L		106	42 - 133
Benzo[a]pyrene	2.86	2.996		ug/L		105	32 - 148
Benzo[b]fluoranthene	2.86	3.011		ug/L		105	42 - 140
Benzo[g,h,i]perylene	2.86	2.891		ug/L		101	25 - 195
Benzo[k]fluoranthene	2.86	3.202		ug/L		112	25 - 146
Benzyl alcohol	2.86	3.037		ug/L		106	57 - 130
Bis(2-chloroethoxy)methane	2.86	3.053		ug/L		107	49 - 165
Bis(2-chloroethyl)ether	2.86	2.991		ug/L		105	43 - 126
Bis(2-ethylhexyl) phthalate	2.86	3.102		ug/L		109	29 - 137
Butyl benzyl phthalate	2.86	3.069		ug/L		107	28 - 130
Chrysene	2.86	2.903		ug/L		102	47 - 130
Dibenz(a,h)anthracene	2.86	2.929		ug/L		103	32 - 200
Dibenzofuran	2.86	2.543		ug/L		89	48 - 130
Diethyl phthalate	2.86	2.966		ug/L		104	53 - 120
Dimethyl phthalate	2.86	3.043		ug/L		107	67 - 120
Di-n-butyl phthalate	2.86	2.761		ug/L		97	8 - 120
Di-n-octyl phthalate	2.86	3.003		ug/L		105	19 - 200
Fluoranthene	2.86	2.790		ug/L		98	43 - 130
Fluorene	2.86	2.717		ug/L		95	70 - 130
Hexachlorobenzene	2.86	2.667		ug/L		93	8 - 142
Hexachlorobutadiene	2.86	1.218		ug/L		43	10 - 130
Hexachlorocyclopentadiene	2.86	1.138		ug/L		40	10 - 130
Hexachloroethane	2.86	1.431		ug/L		50	10 - 130
Indeno[1,2,3-cd]pyrene	2.86	2.904		ug/L		102	29 - 151
Isophorone	2.86	3.052		ug/L		107	47 - 180
Naphthalene	2.86	2.324		ug/L		81	36 - 120

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161376/2-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	2.86	2.959		ug/L		104	54 - 130
N-Nitrosodi-n-propylamine	2.86	3.458		ug/L		121	14 - 198
N-Nitrosodiphenylamine	2.86	2.904		ug/L		102	40 - 127
Pentachlorophenol	2.86	2.988		ug/L		105	38 - 152
Phenanthrene	2.86	2.782		ug/L		97	65 - 120
Phenol	2.86	1.321	J	ug/L		46	17 - 120
Pyrene	2.86	2.848		ug/L		100	70 - 130
Pyridine	2.86	<1.44	U	ug/L		30	1 - 126
N-Nitro-o-toluidine	2.86	1.232	*-	ug/L		43	47 - 130
2,3,4,6-Tetrachlorophenol	2.86	3.154		ug/L		110	33 - 132
Acetophenone	2.86	3.164		ug/L		111	58 - 130
N-Nitrosopiperidine	2.86	2.560		ug/L		90	54 - 130
Pentachlorobenzene	2.86	2.002		ug/L		70	47 - 130
Diphenyl ether	2.86	2.318		ug/L		81	61 - 130
1,1'-Biphenyl	2.86	2.252		ug/L		79	52 - 130
4-Aminobiphenyl	2.86	1.235		ug/L		43	35 - 130
1,2,4,5-Tetrachlorobenzene	2.86	1.709		ug/L		60	52 - 130
1,3,5-Trinitrobenzene	2.86	2.619		ug/L		92	42 - 130
1,3-Dinitrobenzene	2.86	2.783		ug/L		97	54 - 130
1,4-Naphthoquinone	2.86	2.803		ug/L		98	34 - 130
1-Naphthylamine	2.86	0.8423	*-	ug/L		29	40 - 130
2,6-Dichlorophenol	2.86	2.727		ug/L		95	40 - 130
2-Acetylaminofluorene	2.86	4.301	*+	ug/L		151	50 - 150
2-Chlorophenol	2.86	2.831		ug/L		99	36 - 120
2-Naphthylamine	2.86	1.229		ug/L		43	30 - 130
2-Picoline	2.86	1.254		ug/L		44	22 - 130
2-Toluidine	2.86	1.207		ug/L		42	30 - 130
3,3'-Dichlorobenzidine	2.86	1.273		ug/L		45	20 - 150
3,3'-Dimethylbenzidine	2.86	0.4391	J *-	ug/L		15	30 - 130
3-Methylcholanthrene	2.86	1.493	*-	ug/L		52	53 - 130
4-Nitroquinoline-1-oxide	2.86	2.795		ug/L		98	39 - 130
7,12-Dimethylbenz(a)anthracene	2.86	2.718		ug/L		95	63 - 130
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130
Aramite Peak 1	1.43	1.693		ug/L		118	69 - 130
Aramite Peak 2	1.43	1.576		ug/L		110	65 - 130
Diallate Peak 1	2.11	1.730		ug/L		82	69 - 130
Diallate Peak 2	0.743	0.6936		ug/L		93	67 - 130
Ethyl methanesulfonate	2.86	2.140		ug/L		75	54 - 130
Hexachloropropene	2.86	1.072		ug/L		38	37 - 130
Isosafrole Peak 1	0.457	0.2657	J	ug/L		58	54 - 130
Isosafrole Peak 2	2.40	1.308	*-	ug/L		54	62 - 130
Methyl methanesulfonate	2.86	1.044		ug/L		37	30 - 130
N-Nitrosodiethylamine	2.86	2.630		ug/L		92	54 - 130
N-Nitrosodimethylamine	2.86	0.8388		ug/L		29	28 - 126
N-Nitrosodi-n-butylamine	2.86	2.832		ug/L		99	58 - 130
N-Nitrosomethylethylamine	2.86	1.901		ug/L		67	45 - 130
N-Nitrosomorpholine	2.86	1.191		ug/L		42	37 - 130
N-Nitrosopyrrolidine	2.86	1.510		ug/L		53	47 - 130

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 860-161376/2-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
p-Dimethylamino azobenzene	2.86	1.748		ug/L		61	61 - 130
Pentachloronitrobenzene	2.86	3.052	I	ug/L		107	56 - 130
Phenacetin	2.86	2.793		ug/L		98	70 - 130
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120
Pronamide	2.86	3.053		ug/L		107	70 - 130
Safrole, Total	2.86	2.454		ug/L		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	117		35 - 130
2-Fluorobiphenyl	104		43 - 130
2-Fluorophenol (Surr)	81		19 - 120
Nitrobenzene-d5 (Surr)	121		37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14	102		47 - 130

**Lab Sample ID: LCS 860-161376/4-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate	5.71	6.709		ug/L		117	45 - 138
Dinoseb	5.71	8.699	*+	ug/L		152	49 - 130
Disulfoton	5.71	6.383		ug/L		112	38 - 134
Ethyl Parathion	5.71	8.754		ug/L		153	25 - 173
Famphur	2.86	3.868		ug/L		135	43 - 142
Methapyrilene	5.71	7.741		ug/L		135	70 - 183
Methyl parathion	5.71	7.842		ug/L		137	26 - 159
o,o',o"-Triethylphosphorothioate	2.86	2.968		ug/L		104	43 - 130
Phorate	5.71	6.060		ug/L		106	37 - 140
Sulfotepp	5.71	5.810		ug/L		102	28 - 158
Thionazin	2.86	2.449		ug/L		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	113		35 - 130
2-Fluorobiphenyl	108		43 - 130
2-Fluorophenol (Surr)	79		19 - 120
Nitrobenzene-d5 (Surr)	121		37 - 133
Phenol-d5 (Surr)	56		8 - 124
p-Terphenyl-d14	105		47 - 130

**Lab Sample ID: LCSD 860-161376/3-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.86	1.549		ug/L		54	32 - 130	10	30
1,2-Dichlorobenzene	2.86	1.693		ug/L		59	32 - 130	9	30
1,3-Dichlorobenzene	2.86	1.411		ug/L		49	26 - 130	11	30

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161376/3-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,4-Dichlorobenzene	2.86	1.459		ug/L		51	28 - 130	10	30	
2,2'-oxybis[1-chloropropane]	2.86	2.397	J I	ug/L		84	10 - 173	5	30	
2,4,5-Trichlorophenol	2.86	3.131		ug/L		110	35 - 130	1	30	
2,4,6-Trichlorophenol	2.86	2.918		ug/L		102	52 - 129	1	30	
2,4-Dichlorophenol	2.86	2.873		ug/L		101	53 - 122	2	30	
2,4-Dimethylphenol	2.86	1.365		ug/L		48	42 - 120	11	30	
1,4-Dioxane	2.86	1.138		ug/L		40	27 - 130	1	30	
2,4-Dinitrophenol	2.86	1.644	J	ug/L		58	12 - 173	6	30	
2,4-Dinitrotoluene	2.86	2.648		ug/L		93	48 - 127	6	30	
2,6-Dinitrotoluene	2.86	2.849		ug/L		100	68 - 137	2	30	
2-Chloronaphthalene	2.86	2.039		ug/L		71	10 - 130	1	30	
2-Methylnaphthalene	2.86	2.030		ug/L		71	25 - 175	1	30	
2-Methylphenol	2.86	2.417		ug/L		85	14 - 176	1	30	
2-Nitroaniline	2.86	1.618	*-	ug/L		57	59 - 130	15	30	
2-Nitrophenol	2.86	3.002		ug/L		105	45 - 167	1	30	
3 & 4 Methylphenol	2.86	2.005		ug/L		70	22 - 130	6	30	
3-Nitroaniline	2.86	1.240		ug/L		43	30 - 130	4	30	
4,6-Dinitro-2-methylphenol	2.86	1.787		ug/L		63	10 - 130	0	30	
4-Bromophenyl phenyl ether	2.86	2.422		ug/L		85	65 - 120	2	30	
4-Chloro-3-methylphenol	2.86	2.821		ug/L		99	41 - 128	0	30	
4-Chloroaniline	2.86	1.274		ug/L		45	30 - 130	3	30	
4-Chlorophenyl phenyl ether	2.86	2.241		ug/L		78	38 - 145	2	30	
4-Nitroaniline	2.86	1.133	*-	ug/L		40	42 - 125	1	30	
Acenaphthene	2.86	2.433		ug/L		85	60 - 132	2	30	
Acenaphthylene	2.86	2.463		ug/L		86	54 - 126	1	30	
Aniline	2.86	1.036		ug/L		36	15 - 130	8	30	
Anthracene	2.86	2.517		ug/L		88	43 - 135	5	30	
Benzo[a]anthracene	2.86	2.982		ug/L		104	42 - 133	2	30	
Benzo[a]pyrene	2.86	2.790		ug/L		98	32 - 148	7	30	
Benzo[b]fluoranthene	2.86	2.944		ug/L		103	42 - 140	2	30	
Benzo[g,h,i]perylene	2.86	2.660		ug/L		93	25 - 195	8	30	
Benzo[k]fluoranthene	2.86	3.044		ug/L		107	25 - 146	5	30	
Benzyl alcohol	2.86	2.972		ug/L		104	57 - 130	2	30	
Bis(2-chloroethoxy)methane	2.86	3.045		ug/L		107	49 - 165	0	30	
Bis(2-chloroethyl)ether	2.86	2.942		ug/L		103	43 - 126	2	30	
Bis(2-ethylhexyl) phthalate	2.86	3.017		ug/L		106	29 - 137	3	30	
Butyl benzyl phthalate	2.86	2.867		ug/L		100	28 - 130	7	30	
Chrysene	2.86	2.857		ug/L		100	47 - 130	2	30	
Dibenz(a,h)anthracene	2.86	2.704		ug/L		95	32 - 200	8	30	
Dibenzofuran	2.86	2.435		ug/L		85	48 - 130	4	30	
Diethyl phthalate	2.86	2.815		ug/L		99	53 - 120	5	30	
Dimethyl phthalate	2.86	3.096		ug/L		108	67 - 120	2	30	
Di-n-butyl phthalate	2.86	2.609		ug/L		91	8 - 120	6	30	
Di-n-octyl phthalate	2.86	2.950		ug/L		103	19 - 200	2	30	
Fluoranthene	2.86	2.609		ug/L		91	43 - 130	7	30	
Fluorene	2.86	2.573		ug/L		90	70 - 130	5	30	
Hexachlorobenzene	2.86	2.511		ug/L		88	8 - 142	6	30	
Hexachlorobutadiene	2.86	1.125		ug/L		39	10 - 130	8	30	
Hexachlorocyclopentadiene	2.86	1.116		ug/L		39	10 - 130	2	30	

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# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161376/3-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Hexachloroethane	2.86	1.180		ug/L		41	10 - 130	19	30	
Indeno[1,2,3-cd]pyrene	2.86	2.683		ug/L		94	29 - 151	8	30	
Isophorone	2.86	3.087		ug/L		108	47 - 180	1	30	
Naphthalene	2.86	2.188		ug/L		77	36 - 120	6	30	
Nitrobenzene	2.86	2.892		ug/L		101	54 - 130	2	30	
N-Nitrosodi-n-propylamine	2.86	3.310		ug/L		116	14 - 198	4	30	
N-Nitrosodiphenylamine	2.86	2.809		ug/L		98	40 - 127	3	30	
Pentachlorophenol	2.86	2.824		ug/L		99	38 - 152	6	30	
Phenanthrene	2.86	2.656		ug/L		93	65 - 120	5	30	
Phenol	2.86	1.267	J	ug/L		44	17 - 120	4	30	
Pyrene	2.86	2.764		ug/L		97	70 - 130	3	30	
Pyridine	2.86	<1.44	U	ug/L		32	1 - 126	8	30	
N-Nitro-o-toluidine	2.86	1.160	*-	ug/L		41	47 - 130	6	30	
2,3,4,6-Tetrachlorophenol	2.86	2.869		ug/L		100	33 - 132	9	30	
Acetophenone	2.86	3.130		ug/L		110	58 - 130	1	30	
N-Nitrosopiperidine	2.86	2.744		ug/L		96	54 - 130	7	30	
Pentachlorobenzene	2.86	1.824		ug/L		64	47 - 130	9	30	
Diphenyl ether	2.86	2.246		ug/L		79	61 - 130	3	30	
1,1'-Biphenyl	2.86	2.120		ug/L		74	52 - 130	6	30	
4-Aminobiphenyl	2.86	1.173		ug/L		41	35 - 130	5	30	
1,2,4,5-Tetrachlorobenzene	2.86	1.581		ug/L		55	52 - 130	8	30	
1,3,5-Trinitrobenzene	2.86	2.729		ug/L		96	42 - 130	4	30	
1,3-Dinitrobenzene	2.86	2.865		ug/L		100	54 - 130	3	30	
1,4-Naphthoquinone	2.86	3.017		ug/L		106	34 - 130	7	30	
1-Naphthylamine	2.86	0.7803	*-	ug/L		27	40 - 130	8	30	
2,6-Dichlorophenol	2.86	2.775		ug/L		97	40 - 130	2	30	
2-Acetylaminofluorene	2.86	3.979		ug/L		139	50 - 150	8	30	
2-Chlorophenol	2.86	2.773		ug/L		97	36 - 120	2	30	
2-Naphthylamine	2.86	1.170		ug/L		41	30 - 130	5	30	
2-Picoline	2.86	1.156		ug/L		40	22 - 130	8	30	
2-Toluidine	2.86	1.155		ug/L		40	30 - 130	4	30	
3,3'-Dichlorobenzidine	2.86	1.173		ug/L		41	20 - 150	8	30	
3,3'-Dimethylbenzidine	2.86	0.3721	J *-	ug/L		13	30 - 130	17	30	
3-Methylcholanthrene	2.86	1.306	*-	ug/L		46	53 - 130	13	30	
4-Nitroquinoline-1-oxide	2.86	2.671		ug/L		93	39 - 130	5	30	
7,12-Dimethylbenz(a)anthracene	2.86	2.597		ug/L		91	63 - 130	5	30	
alpha,alpha-Dimethyl phenethylamine	2.86	<3.67	U *-	ug/L		0	20 - 130	NC	30	
Aramite Peak 1	1.43	1.622		ug/L		114	69 - 130	4	30	
Aramite Peak 2	1.43	1.494		ug/L		105	65 - 130	5	30	
Diallate Peak 1	2.11	1.806		ug/L		85	69 - 130	4	30	
Diallate Peak 2	0.743	0.6484		ug/L		87	67 - 130	7	30	
Ethyl methanesulfonate	2.86	2.128		ug/L		74	54 - 130	1	30	
Hexachloropropene	2.86	1.041	*-	ug/L		36	37 - 130	3	30	
Isosafrole Peak 1	0.457	0.2544	J	ug/L		56	54 - 130	4	30	
Isosafrole Peak 2	2.40	1.267	*-	ug/L		53	62 - 130	3	30	
Methyl methanesulfonate	2.86	1.023		ug/L		36	30 - 130	2	30	
N-Nitrosodiethylamine	2.86	2.487		ug/L		87	54 - 130	6	30	
N-Nitrosodimethylamine	2.86	0.8516		ug/L		30	28 - 126	2	30	

Eurofins Houston

# QC Sample Results

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 860-161376/3-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-butylamine	2.86	2.804		ug/L		98	58 - 130	1	30
N-Nitrosomethylethylamine	2.86	1.857		ug/L		65	45 - 130	2	30
N-Nitrosomorpholine	2.86	1.203		ug/L		42	37 - 130	1	30
N-Nitrosopyrrolidine	2.86	1.612		ug/L		56	47 - 130	7	30
p-Dimethylamino azobenzene	2.86	1.588	*	ug/L		56	61 - 130	10	30
Pentachloronitrobenzene	2.86	2.884		ug/L		101	56 - 130	6	30
Phenacetin	2.86	2.775		ug/L		97	70 - 130	1	30
p-Phenylene diamine	2.86	<0.500	U *	ug/L		0	3 - 120	NC	30
Pronamide	2.86	2.952		ug/L		103	70 - 130	3	30
Safrole, Total	2.86	2.476		ug/L		87	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	108		35 - 130
2-Fluorobiphenyl	96		43 - 130
2-Fluorophenol (Surr)	79		19 - 120
Nitrobenzene-d5 (Surr)	118		37 - 133
Phenol-d5 (Surr)	49		8 - 124
p-Terphenyl-d14	95		47 - 130

**Lab Sample ID: LCSD 860-161376/5-A**  
**Matrix: Water**  
**Analysis Batch: 161760**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 161376**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate	5.71	7.138		ug/L		125	45 - 138	6	30
Dinoseb	5.71	9.148	*+	ug/L		160	49 - 130	5	30
Disulfoton	5.71	6.401		ug/L		112	38 - 134	0	30
Ethyl Parathion	5.71	8.910		ug/L		156	25 - 173	2	30
Famphur	2.86	4.040		ug/L		141	43 - 142	4	30
Methapyrilene	5.71	8.274		ug/L		145	70 - 183	7	30
Methyl parathion	5.71	8.677		ug/L		152	26 - 159	10	30
o,o',o"-Triethylphosphorothioate	2.86	3.322		ug/L		116	43 - 130	11	30
Phorate	5.71	6.358		ug/L		111	37 - 140	5	30
Sulfotepp	5.71	5.766		ug/L		101	28 - 158	1	30
Thionazin	2.86	2.568		ug/L		90	50 - 150	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	116		35 - 130
2-Fluorobiphenyl	104		43 - 130
2-Fluorophenol (Surr)	81		19 - 120
Nitrobenzene-d5 (Surr)	129		37 - 133
Phenol-d5 (Surr)	57		8 - 124
p-Terphenyl-d14	91		47 - 130

# QC Sample Results

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Method: 8321A - Delnav (LC/MS)

**Lab Sample ID: MB 410-508257/1-A**  
**Matrix: Water**  
**Analysis Batch: 508657**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 508257**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Delnav	<0.315	U	1.00	0.315	ug/L		05/20/24 14:50	05/21/24 12:15	1

**Lab Sample ID: LCS 410-508257/2-A**  
**Matrix: Water**  
**Analysis Batch: 508657**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 508257**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-Dioxathion	0.588	0.4925	J	ug/L		84	70 - 130
trans-Dioxathion	1.41	1.187		ug/L		84	70 - 130

**Lab Sample ID: 860-74400-13 MS**  
**Matrix: Water**  
**Analysis Batch: 508657**

**Client Sample ID: MW-8**  
**Prep Type: Total/NA**  
**Prep Batch: 508257**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-Dioxathion	<0.315	U	0.588	0.4539	J	ug/L		77	70 - 130
trans-Dioxathion	<0.315	U	1.41	1.136		ug/L		80	70 - 130

**Lab Sample ID: 860-74400-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 508657**

**Client Sample ID: MW-8**  
**Prep Type: Total/NA**  
**Prep Batch: 508257**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-Dioxathion	<0.315	U	0.588	0.4559	J	ug/L		78	70 - 130	0	20
trans-Dioxathion	<0.315	U	1.41	1.118		ug/L		79	70 - 130	2	20

# QC Association Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## GC/MS VOA

### Analysis Batch: 161379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-1	MW-6	Total/NA	Water	8260D	
860-74400-2	FB-01	Total/NA	Water	8260D	
860-74400-3	MW-7	Total/NA	Water	8260D	
860-74400-4	MW-14	Total/NA	Water	8260D	
860-74400-5	MW-5	Total/NA	Water	8260D	
860-74400-6	MW-4	Total/NA	Water	8260D	
860-74400-7	MW-15	Total/NA	Water	8260D	
860-74400-8	MW-16	Total/NA	Water	8260D	
860-74400-9	MW-23	Total/NA	Water	8260D	
860-74400-10	MW-21	Total/NA	Water	8260D	
860-74400-11	TB-09(051524)	Total/NA	Water	8260D	
860-74400-12	MW-13	Total/NA	Water	8260D	
860-74400-13	MW-8	Total/NA	Water	8260D	
860-74400-14	MW-17	Total/NA	Water	8260D	
860-74400-15	DUPE-01	Total/NA	Water	8260D	
MB 860-161379/9	Method Blank	Total/NA	Water	8260D	
LCS 860-161379/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-161379/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74636-F-1 MS	Matrix Spike	Total/NA	Water	8260D	

### Analysis Batch: 161590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-7 - DL	MW-15	Total/NA	Water	8260D	
MB 860-161590/12	Method Blank	Total/NA	Water	8260D	
LCS 860-161590/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-161590/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74380-B-1 MS	Matrix Spike	Total/NA	Water	8260D	

### Analysis Batch: 161868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-13 - DL	MW-8	Total/NA	Water	8260D	
860-74400-15 - DL	DUPE-01	Total/NA	Water	8260D	
MB 860-161868/9	Method Blank	Total/NA	Water	8260D	
LCS 860-161868/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-161868/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-74659-W-1 MS	Matrix Spike	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 161376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-1 - RA	MW-6	Total/NA	Water	3511	
860-74400-1	MW-6	Total/NA	Water	3511	
860-74400-3	MW-7	Total/NA	Water	3511	
860-74400-3 - RA	MW-7	Total/NA	Water	3511	
860-74400-4 - DL	MW-14	Total/NA	Water	3511	
860-74400-4	MW-14	Total/NA	Water	3511	
860-74400-5 - DL	MW-5	Total/NA	Water	3511	
860-74400-5	MW-5	Total/NA	Water	3511	
860-74400-5 - RA	MW-5	Total/NA	Water	3511	
860-74400-6 - DL	MW-4	Total/NA	Water	3511	

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# QC Association Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 161376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-6	MW-4	Total/NA	Water	3511	
860-74400-7 - DL	MW-15	Total/NA	Water	3511	
860-74400-7	MW-15	Total/NA	Water	3511	
860-74400-8 - DL	MW-16	Total/NA	Water	3511	
860-74400-8	MW-16	Total/NA	Water	3511	
860-74400-9 - DL4	MW-23	Total/NA	Water	3511	
860-74400-9 - DL2	MW-23	Total/NA	Water	3511	
860-74400-9 - DL3	MW-23	Total/NA	Water	3511	
860-74400-9	MW-23	Total/NA	Water	3511	
860-74400-9 - DL	MW-23	Total/NA	Water	3511	
860-74400-10 - DL4	MW-21	Total/NA	Water	3511	
860-74400-10 - DL3	MW-21	Total/NA	Water	3511	
860-74400-10 - DL2	MW-21	Total/NA	Water	3511	
860-74400-10	MW-21	Total/NA	Water	3511	
860-74400-10 - DL	MW-21	Total/NA	Water	3511	
860-74400-12 - DL2	MW-13	Total/NA	Water	3511	
860-74400-12	MW-13	Total/NA	Water	3511	
860-74400-12 - DL	MW-13	Total/NA	Water	3511	
860-74400-13 - DL	MW-8	Total/NA	Water	3511	
860-74400-13	MW-8	Total/NA	Water	3511	
860-74400-14 - DL	MW-17	Total/NA	Water	3511	
860-74400-14	MW-17	Total/NA	Water	3511	
860-74400-14 - RA	MW-17	Total/NA	Water	3511	
860-74400-15 - DL	DUPE-01	Total/NA	Water	3511	
860-74400-15	DUPE-01	Total/NA	Water	3511	
860-74400-15 - RA	DUPE-01	Total/NA	Water	3511	
MB 860-161376/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-161376/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-161376/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-161376/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-161376/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### Analysis Batch: 161760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-3	MW-7	Total/NA	Water	8270E	161376
860-74400-4	MW-14	Total/NA	Water	8270E	161376
860-74400-5	MW-5	Total/NA	Water	8270E	161376
860-74400-6	MW-4	Total/NA	Water	8270E	161376
860-74400-7	MW-15	Total/NA	Water	8270E	161376
860-74400-8	MW-16	Total/NA	Water	8270E	161376
860-74400-9	MW-23	Total/NA	Water	8270E	161376
860-74400-10	MW-21	Total/NA	Water	8270E	161376
860-74400-12	MW-13	Total/NA	Water	8270E	161376
860-74400-13	MW-8	Total/NA	Water	8270E	161376
860-74400-14	MW-17	Total/NA	Water	8270E	161376
860-74400-15	DUPE-01	Total/NA	Water	8270E	161376
MB 860-161376/1-A	Method Blank	Total/NA	Water	8270E	161376
LCS 860-161376/2-A	Lab Control Sample	Total/NA	Water	8270E	161376
LCS 860-161376/4-A	Lab Control Sample	Total/NA	Water	8270E	161376
LCSD 860-161376/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	161376
LCSD 860-161376/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	161376

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# QC Association Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## GC/MS Semi VOA

### Analysis Batch: 161806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-1	MW-6	Total/NA	Water	8270E	161376

### Analysis Batch: 161906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-1 - RA	MW-6	Total/NA	Water	8270E	161376
860-74400-4 - DL	MW-14	Total/NA	Water	8270E	161376
860-74400-5 - DL	MW-5	Total/NA	Water	8270E	161376
860-74400-6 - DL	MW-4	Total/NA	Water	8270E	161376
860-74400-7 - DL	MW-15	Total/NA	Water	8270E	161376
860-74400-8 - DL	MW-16	Total/NA	Water	8270E	161376
860-74400-9 - DL3	MW-23	Total/NA	Water	8270E	161376
860-74400-10 - DL3	MW-21	Total/NA	Water	8270E	161376
860-74400-12 - DL2	MW-13	Total/NA	Water	8270E	161376
860-74400-13 - DL	MW-8	Total/NA	Water	8270E	161376
860-74400-14 - DL	MW-17	Total/NA	Water	8270E	161376
860-74400-15 - DL	DUPE-01	Total/NA	Water	8270E	161376

### Analysis Batch: 161920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-3 - RA	MW-7	Total/NA	Water	8270E	161376
860-74400-4	MW-14	Total/NA	Water	8270E	161376
860-74400-5 - RA	MW-5	Total/NA	Water	8270E	161376
860-74400-6	MW-4	Total/NA	Water	8270E	161376
860-74400-7	MW-15	Total/NA	Water	8270E	161376
860-74400-8	MW-16	Total/NA	Water	8270E	161376
860-74400-9 - DL	MW-23	Total/NA	Water	8270E	161376
860-74400-10 - DL	MW-21	Total/NA	Water	8270E	161376
860-74400-12 - DL	MW-13	Total/NA	Water	8270E	161376
860-74400-13 - DL	MW-8	Total/NA	Water	8270E	161376

### Analysis Batch: 162007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-9 - DL2	MW-23	Total/NA	Water	8270E	161376
860-74400-9 - DL4	MW-23	Total/NA	Water	8270E	161376
860-74400-10 - DL2	MW-21	Total/NA	Water	8270E	161376
860-74400-10 - DL4	MW-21	Total/NA	Water	8270E	161376

### Analysis Batch: 162080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-14 - DL	MW-17	Total/NA	Water	8270E	161376
860-74400-15 - DL	DUPE-01	Total/NA	Water	8270E	161376

### Analysis Batch: 162182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-14 - RA	MW-17	Total/NA	Water	8270E	161376
860-74400-15 - RA	DUPE-01	Total/NA	Water	8270E	161376

# QC Association Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## LCMS

### Prep Batch: 508257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-4	MW-14	Total/NA	Water	DAI Prep	
860-74400-6	MW-4	Total/NA	Water	DAI Prep	
860-74400-7	MW-15	Total/NA	Water	DAI Prep	
860-74400-8	MW-16	Total/NA	Water	DAI Prep	
860-74400-12	MW-13	Total/NA	Water	DAI Prep	
860-74400-13	MW-8	Total/NA	Water	DAI Prep	
860-74400-14	MW-17	Total/NA	Water	DAI Prep	
860-74400-15	DUPE-01	Total/NA	Water	DAI Prep	
MB 410-508257/1-A	Method Blank	Total/NA	Water	DAI Prep	
LCS 410-508257/2-A	Lab Control Sample	Total/NA	Water	DAI Prep	
860-74400-13 MS	MW-8	Total/NA	Water	DAI Prep	
860-74400-13 MSD	MW-8	Total/NA	Water	DAI Prep	

### Analysis Batch: 508657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-74400-4	MW-14	Total/NA	Water	8321A	508257
860-74400-6	MW-4	Total/NA	Water	8321A	508257
860-74400-7	MW-15	Total/NA	Water	8321A	508257
860-74400-8	MW-16	Total/NA	Water	8321A	508257
860-74400-12	MW-13	Total/NA	Water	8321A	508257
860-74400-13	MW-8	Total/NA	Water	8321A	508257
860-74400-14	MW-17	Total/NA	Water	8321A	508257
860-74400-15	DUPE-01	Total/NA	Water	8321A	508257
MB 410-508257/1-A	Method Blank	Total/NA	Water	8321A	508257
LCS 410-508257/2-A	Lab Control Sample	Total/NA	Water	8321A	508257
860-74400-13 MS	MW-8	Total/NA	Water	8321A	508257
860-74400-13 MSD	MW-8	Total/NA	Water	8321A	508257

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-6

Lab Sample ID: 860-74400-1

Date Collected: 05/15/24 08:16

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 14:33	NA	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161906	05/23/24 20:55	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161806	05/23/24 07:24	LPL	EET HOU

## Client Sample ID: FB-01

Lab Sample ID: 860-74400-2

Date Collected: 05/15/24 08:16

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 12:30	NA	EET HOU

## Client Sample ID: MW-7

Lab Sample ID: 860-74400-3

Date Collected: 05/15/24 08:21

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 13:32	NA	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/22/24 23:08	PXS	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161920	05/23/24 15:12	PXS	EET HOU

## Client Sample ID: MW-14

Lab Sample ID: 860-74400-4

Date Collected: 05/15/24 09:22

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 13:52	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	20	1 mL	1 mL	161906	05/23/24 14:11	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/22/24 23:37	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		20	1 mL	1 mL	161920	05/23/24 19:01	PXS	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 12:26	UJD2	ELLE

## Client Sample ID: MW-5

Lab Sample ID: 860-74400-5

Date Collected: 05/15/24 09:27

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 12:51	NA	EET HOU

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# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: MW-5

Date Collected: 05/15/24 09:27

Date Received: 05/16/24 09:54

## Lab Sample ID: 860-74400-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	161906	05/23/24 16:06	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 00:06	PXS	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	161920	05/23/24 15:40	PXS	EET HOU

## Client Sample ID: MW-4

Date Collected: 05/15/24 10:15

Date Received: 05/16/24 09:54

## Lab Sample ID: 860-74400-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 13:11	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	5	1 mL	1 mL	161906	05/23/24 14:39	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 00:36	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		5	1 mL	1 mL	161920	05/23/24 19:30	PXS	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 12:32	UJD2	ELLE

## Client Sample ID: MW-15

Date Collected: 05/15/24 10:26

Date Received: 05/16/24 09:54

## Lab Sample ID: 860-74400-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 14:13	NA	EET HOU
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	161590	05/22/24 18:57	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	100	1 mL	1 mL	161906	05/23/24 16:35	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 01:05	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		10	1 mL	1 mL	161920	05/23/24 16:09	PXS	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 12:38	UJD2	ELLE

## Client Sample ID: MW-16

Date Collected: 05/15/24 11:22

Date Received: 05/16/24 09:54

## Lab Sample ID: 860-74400-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		20	5 mL	5 mL	161379	05/21/24 14:54	NA	EET HOU

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-16**  
**Date Collected: 05/15/24 11:22**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	100	1 mL	1 mL	161906	05/23/24 15:08	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 01:34	PXS	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		100	1 mL	1 mL	161920	05/23/24 19:58	PXS	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 12:44	UJD2	ELLE

**Client Sample ID: MW-23**  
**Date Collected: 05/15/24 11:42**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	161379	05/21/24 15:15	NA	EET HOU
Total/NA	Prep	3511	DL3		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL3	50	1 mL	1 mL	161906	05/23/24 17:04	EM	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL2	10	1 mL	1 mL	162007	05/24/24 05:54	T1S	EET HOU
Total/NA	Prep	3511	DL4		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL4	500	1 mL	1 mL	162007	05/24/24 06:22	T1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 02:03	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	5	1 mL	1 mL	161920	05/23/24 16:38	PXS	EET HOU

**Client Sample ID: MW-21**  
**Date Collected: 05/15/24 13:27**  
**Date Received: 05/16/24 09:54**

**Lab Sample ID: 860-74400-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	161379	05/21/24 15:35	NA	EET HOU
Total/NA	Prep	3511	DL3		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL3	50	1 mL	1 mL	161906	05/23/24 17:33	EM	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL2	10	1 mL	1 mL	162007	05/24/24 06:51	T1S	EET HOU
Total/NA	Prep	3511	DL4		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL4	500	1 mL	1 mL	162007	05/24/24 07:19	T1S	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 02:32	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	5	1 mL	1 mL	161920	05/23/24 17:07	PXS	EET HOU

# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Client Sample ID: TB-09(051524)

## Lab Sample ID: 860-74400-11

Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	161379	05/21/24 12:10	NA	EET HOU

## Client Sample ID: MW-13

## Lab Sample ID: 860-74400-12

Date Collected: 05/15/24 13:49

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		20	5 mL	5 mL	161379	05/21/24 16:16	NA	EET HOU
Total/NA	Prep	3511	DL2		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL2	20	1 mL	1 mL	161906	05/23/24 18:02	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 03:01	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	10	1 mL	1 mL	161920	05/23/24 17:35	PXS	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 12:49	UJD2	ELLE

## Client Sample ID: MW-8

## Lab Sample ID: 860-74400-13

Date Collected: 05/15/24 14:22

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		20	5 mL	5 mL	161379	05/21/24 16:37	NA	EET HOU
Total/NA	Analysis	8260D	DL	100	5 mL	5 mL	161868	05/23/24 12:22	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	100	1 mL	1 mL	161906	05/23/24 15:37	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 03:31	PXS	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	200	1 mL	1 mL	161920	05/23/24 20:27	PXS	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 12:55	UJD2	ELLE

## Client Sample ID: MW-17

## Lab Sample ID: 860-74400-14

Date Collected: 05/15/24 14:34

Matrix: Water

Date Received: 05/16/24 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		500	5 mL	5 mL	161379	05/21/24 16:57	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	50	1 mL	1 mL	161906	05/23/24 18:31	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 04:00	PXS	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	162182	05/24/24 12:18	LPL	EET HOU

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# Lab Chronicle

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 860-74400-14**

**Date Collected: 05/15/24 14:34**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	2000	1 mL	1 mL	162080	05/24/24 02:34	T1S	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 13:01	UJD2	ELLE

**Client Sample ID: DUPE-01**

**Lab Sample ID: 860-74400-15**

**Date Collected: 05/15/24 00:00**

**Matrix: Water**

**Date Received: 05/16/24 09:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		20	5 mL	5 mL	161379	05/21/24 15:56	NA	EET HOU
Total/NA	Analysis	8260D	DL	500	5 mL	5 mL	161868	05/23/24 12:01	NA	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	50	1 mL	1 mL	161906	05/23/24 19:00	EM	EET HOU
Total/NA	Prep	3511			35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	161760	05/23/24 04:29	PXS	EET HOU
Total/NA	Prep	3511	RA		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	RA	1	1 mL	1 mL	162182	05/24/24 12:48	LPL	EET HOU
Total/NA	Prep	3511	DL		35.00 mL	2.00 mL	161376	05/21/24 06:26	DR	EET HOU
Total/NA	Analysis	8270E	DL	2000	1 mL	1 mL	162080	05/24/24 03:02	T1S	EET HOU
Total/NA	Prep	DAI Prep			5 mL	10 mL	508257	05/20/24 14:50	UJD2	ELLE
Total/NA	Analysis	8321A		1			508657	05/21/24 13:06	UJD2	ELLE

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



# Accreditation/Certification Summary

Client: Ashland LLC  
 Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	05-23-24
North Dakota	State	R-205	01-31-24 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8321A	Delnav (LC/MS)	SW846	ELLE
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
DAI Prep	Preparation, Direct Aqueous Injection	Lab SOP	ELLE

#### Protocol References:

Lab SOP = Laboratory Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: Ashland LLC  
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-74400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-74400-1	MW-6	Water	05/15/24 08:16	05/16/24 09:54
860-74400-2	FB-01	Water	05/15/24 08:16	05/16/24 09:54
860-74400-3	MW-7	Water	05/15/24 08:21	05/16/24 09:54
860-74400-4	MW-14	Water	05/15/24 09:22	05/16/24 09:54
860-74400-5	MW-5	Water	05/15/24 09:27	05/16/24 09:54
860-74400-6	MW-4	Water	05/15/24 10:15	05/16/24 09:54
860-74400-7	MW-15	Water	05/15/24 10:26	05/16/24 09:54
860-74400-8	MW-16	Water	05/15/24 11:22	05/16/24 09:54
860-74400-9	MW-23	Water	05/15/24 11:42	05/16/24 09:54
860-74400-10	MW-21	Water	05/15/24 13:27	05/16/24 09:54
860-74400-11	TB-09(051524)	Water	05/15/24 00:00	05/16/24 09:54
860-74400-12	MW-13	Water	05/15/24 13:49	05/16/24 09:54
860-74400-13	MW-8	Water	05/15/24 14:22	05/16/24 09:54
860-74400-14	MW-17	Water	05/15/24 14:34	05/16/24 09:54
860-74400-15	DUPE-01	Water	05/15/24 00:00	05/16/24 09:54

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RUDOLPH WOLLS

**Client Information**

Client Contact:  
Mr Antonio Cardoso  
Company:  
Arcadis U.S. Inc.

Address:  
4300 West Cypress Street Suite 450  
City:  
Tampa  
State, Zip:  
FL, 33607  
Phone:  
1095575  
Email:  
antonio.cardoso@arcadis.com  
Project Name:  
Hercules Hattiesburg, MS  
Site:

Due Date Requested:  
TAT Requested (days):  
Compliance Project:  Yes  No  
PO #: 1095575  
WCF #:   
SSO/VW:

Sampler:  
K. Monahan  
Phone: 225-205-8246  
Job #:

Lab P/N:  
Kudachkar Sachin G  
E-Mail: Sachin.Kudachkar@eurofinsus.com  
Carrier Tracking No.:

State of Origin:

Page: 1 of 8  
Page 1 of 8  
16/2

860-291-33-100-  
Preservation Codes:  
N None

Analysis Requested

Field Filtered Sample (Yes or No)

8270E_QQQ (MOD) Appendix 9 SVOCs	<input checked="" type="checkbox"/>
8260D (MOD) Appendix 9 VOCs	<input checked="" type="checkbox"/>
8321-DOLNAV	<input checked="" type="checkbox"/>

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Metal, Semisolid, Organic, Aqueous)	Preservation Code	Field Filtered Sample (Yes or No)	Total Number of containers	Special Instructions/Note:
MMW-7	5-15-24	0816	G	Water		<input checked="" type="checkbox"/>	7	
MMW-6		0816	G	Water		<input checked="" type="checkbox"/>	7	
MMW-5		0816	G	Water		<input checked="" type="checkbox"/>	7	
MMW-4		0821		Water		<input checked="" type="checkbox"/>	7	
MMW-3		0930		Water		<input checked="" type="checkbox"/>	7	
MMW-2		0930		Water		<input checked="" type="checkbox"/>	7	
MMW-1		0937		Water		<input checked="" type="checkbox"/>	7	
MMW-6		1015		Water		<input checked="" type="checkbox"/>	7	
MMW-7		1036		Water		<input checked="" type="checkbox"/>	7	
MMW-8		1132		Water		<input checked="" type="checkbox"/>	7	
MMW-9		1148		Water		<input checked="" type="checkbox"/>	7	
MMW-10		1387		Water		<input checked="" type="checkbox"/>	7	
MMW-11				Water		<input checked="" type="checkbox"/>	7	



Possible Hazard Identification

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV Other (Specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: 5-15-24 1545 Company: Arcadis

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No

Custody Seal No: 252 8604

Received by: \_\_\_\_\_ Date/Time: 5/16/24 9:54 Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks:

Sample Dispo: Temp: 16 IR ID: HOU-368 : are retained longer than 1 month)  Archive For \_\_\_\_\_ Months

Special Instruction: Corrected Temp: 18

CHAIN OF CUSTODY RECORD

Stafford, TX 77477  
Phone (281) 240-4200

Client Information

Client Contact: Mr. Antonio Cardoso  
Company: Arcadis U.S. Inc.  
Address: 4300 West Cypress Street Suite 450  
City: Tampa  
State, Zip: FL, 33607  
Phone: 1095575  
Email: antonio.cardoso@arcadis.com  
Project Name: Hercules Hatteshburg, MS  
Site: SSOVWE

Sampler: Kipp Montgomerie  
Phone: 225-205-8566  
Lab #/Lab Name: 225-205-8566  
Kudachkar Sachin G  
Email: Sachin.Kudachkar@eurofinsus.com

Carrier Tracking No(s):  
State of Origin:  
Job #:  
Preservation Codes: N None

OCG No: 860-29133-10045.2  
Page: Page 2 of 8  
Date: 2/2/20

Due Date Requested:  
TAT Requested (days):  
Compliance Project:  Yes  No

PO #: 1095575  
WOC #:

Field Filtered Sample (Yes or No)  
8270E\_QQQ (MOD) Appendix 9 SVOCs  
8260D (MOD) Appendix 9 VOCA  
DELNAV

Analysis Requested  
Total Number of Containers  
Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sediment, Overhaul, Petroleum, AML)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note
MW-12	5-15-24	1319	G	Water		X		9	
MW-13	"	1402	G	Water		X		9	
MW-14	"	1424	G	Water		X		9	
MW-15	"	"	G	Water		X		9	
MW-16	"	"	G	Water		X		9	
MW-17	"	"	G	Water		X		9	
MW-18	"	"	G	Water		X		9	
MW-19	"	"	G	Water		X		9	
MW-20	"	"	G	Water		X		9	
MW-21	"	"	G	Water		X		9	
MW-22	"	"	G	Water		X		9	

Possible Hazard Identification  
 Non-Hazard  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown  
 Radiological

Deliverable Requested: I, II, III, IV Other (specify)

Empty Kit Reinquished by: [Signature]  
 Reinquished by: [Signature]  
 Reinquished by: [Signature]

Date: 5-15-24 1545  
 Date: 5-15-24 1545  
 Date: 5-15-24 1545

Company: Amnors  
 Company: Amnors  
 Company: Amnors

Received by: [Signature]  
 Received by: [Signature]  
 Received by: [Signature]

Method of Shipment:  
 Date/Time: 5/14/24  
 Date/Time: 5/14/24  
 Date/Time: 5/14/24

Custody Seal No: 2528664  
 Custody Seal No: 2528664  
 Custody Seal No: 2528664

Cooler Temperature(s) °C and Other Remarks:

Special Instructions/Requirements:  
 Return To Client  
 Disposal By Lab  
 Archive For  
 Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  
 Disposal By Lab  
 Archive For  
 Months

Ver 01/16/2019



# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74400-1

**Login Number: 74400**

**List Source: Eurofins Houston**

**List Number: 1**

**Creator: Torrez, Lisandra**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





# Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-74400-1

**Login Number: 74400**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**

**List Number: 2**

**List Creation: 05/17/24 10:58 AM**

**Creator: Santiago, Nathaniel**

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (<math>\leq 6^{\circ}\text{C}</math>, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required (<math>\leq 6^{\circ}\text{C}</math>, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	