Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: Dup

Lab Sample ID: 680-51170-6FD
Client Matrix: Water

Date Sampled: 09/29/2009 0000
Date Received: 09/30/2009 0853

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-149832		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-149433		Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	10/05/2009 2021			Injection Volume:	1.0 uL
Date Prepared:	10/01/2009 1512			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
PCB-1016	<0.95		0.95
PCB-1221	<1.9		1.9
PCB-1232	<0.95		0.95
PCB-1242	<0.95		0.95
PCB-1248	<0.95		0.95
PCB-1254	<0.95		0.95
PCB-1260	<0.95		0.95
Chlorobenzilate	<0.48		0.48
Isodrin	<0.048		0.048
Kepone	<0.95		0.95
4,4'-DDD	<0.095		0.095
4,4'-DDE	<0.095		0.095
4,4'-DDT	<0.095		0.095
Aldrin	<0.048		0.048
alpha-BHC	<0.048		0.048
beta-BHC	<0.048		0.048
Chlordane (technical)	<0.48		0.48
delta-BHC	<0.048		0.048
Dieldrin	<0.095		0.095
Endosulfan I	<0.048		0.048
Endosulfan II	<0.095		0.095
Endosulfan sulfate	<0.095		0.095
Endrin	<0.095		0.095
Endrin aldehyde	<0.095		0.095
Endrin ketone	<0.095		0.095
gamma-BHC (Lindane)	<0.048		0.048
Heptachlor	<0.048		0.048
Heptachlor epoxide	<0.048		0.048
Methoxychlor	<0.48		0.48
Toxaphene	<4.8		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	16		14 - 115
Tetrachloro-m-xylene	68		35 - 120

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: **MW-21**

Lab Sample ID: 680-51170-7
Client Matrix: Water

Date Sampled: 09/29/2009 1142
Date Received: 09/30/2009 0853

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method:	8081A_8082	Analysis Batch: 680-149832		Instrument ID:	SGM
Preparation:	3520C	Prep Batch: 680-149433		Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	10/05/2009 2040			Injection Volume:	1.0 uL
Date Prepared:	10/01/2009 1512			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
PCB-1016	<0.97		0.97
PCB-1221	<1.9		1.9
PCB-1232	<0.97		0.97
PCB-1242	<0.97		0.97
PCB-1248	<0.97		0.97
PCB-1254	<0.97		0.97
PCB-1260	<0.97		0.97
Chlorobenzilate	<0.49		0.49
Isodrin	<0.049		0.049
Kepone	<0.97		0.97
4,4'-DDD	<0.097		0.097
4,4'-DDE	<0.097		0.097
4,4'-DDT	<0.097		0.097
Aldrin	<0.049		0.049
alpha-BHC	<0.049		0.049
beta-BHC	<0.049		0.049
Chlordane (technical)	<0.49		0.49
delta-BHC	<0.049		0.049
Dieldrin	<0.097		0.097
Endosulfan I	<0.049		0.049
Endosulfan II	<0.097		0.097
Endosulfan sulfate	<0.097		0.097
Endrin	<0.097		0.097
Endrin aldehyde	<0.097		0.097
Endrin ketone	<0.097		0.097
gamma-BHC (Lindane)	<0.049		0.049
Heptachlor	<0.049		0.049
Heptachlor epoxide	<0.049		0.049
Methoxychlor	<0.49		0.49
Toxaphene	<4.9		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	24		14 - 115
Tetrachloro-m-xylene	75		35 - 120

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: **MW-24**

Lab Sample ID: 680-51170-1
Client Matrix: Water

Date Sampled: 09/28/2009 1605
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 1934			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	<20		20
Barium	280		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1856			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: RB

Lab Sample ID: 680-51170-2RB
Client Matrix: Water

Date Sampled: 09/28/2009 1745
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 2000			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	<20		20
Barium	11		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1905			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: MW-20

Lab Sample ID: 680-51170-3
Client Matrix: Water

Date Sampled: 09/29/2009 0720
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 2005			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	<20		20
Barium	84		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1908			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: **MW-22**

Lab Sample ID: 680-51170-4
Client Matrix: Water

Date Sampled: 09/29/2009 0823
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 2020			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	<20		20
Barium	130		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1911			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: **MW-23**

Lab Sample ID: 680-51170-5
Client Matrix: Water

Date Sampled: 09/29/2009 0945
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 2026			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	26		20
Barium	51		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1914			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: Dup

Lab Sample ID: 680-51170-6FD
Client Matrix: Water

Date Sampled: 09/29/2009 0000
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 2031			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	27		20
Barium	52		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1923			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

Client: Ashland Inc.

Job Number: 680-51170-1

Client Sample ID: **MW-21**

Lab Sample ID: 680-51170-7
Client Matrix: Water

Date Sampled: 09/29/2009 1142
Date Received: 09/30/2009 0853

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-149607		Instrument ID:	ICPD
Preparation:	3010A	Prep Batch: 680-149455		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/02/2009 2036			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1232				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	<20		20
Barium	65		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 680-149950		Instrument ID:	LEEMAN1
Preparation:	7470A	Prep Batch: 680-149436		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/06/2009 1926			Final Weight/Volume:	50 mL
Date Prepared:	10/01/2009 1108				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	<0.20		0.20

DATA REPORTING QUALIFIERS

Client: Ashland Inc. Job Number: 680-51170-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	F	RPD of the MS and MSD exceeds the control limits
	H	Sample was prepped or analyzed beyond the specified holding time
	X	Surrogate exceeds the control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
GC Semi VOA		
	X	Surrogate exceeds the control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

QUALITY CONTROL RESULTS

Client: Ashland Inc.

Job Number: 680-51170-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-149440					
LCS 680-149440/21	Lab Control Sample	T	Water	8260B	
LCSD 680-149440/22	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-149440/23	Method Blank	T	Water	8260B	
680-51170-8TB	Trip Blank	T	Water	8260B	
680-51170-9TB	Trip Blank	T	Water	8260B	
Analysis Batch:680-149463					
LCS 680-149463/4	Lab Control Sample	T	Water	8260B	
LCSD 680-149463/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-149463/9	Method Blank	T	Water	8260B	
680-51170-1	MW-24	T	Water	8260B	
680-51170-1MS	Matrix Spike	T	Water	8260B	
680-51170-1MSD	Matrix Spike Duplicate	T	Water	8260B	
680-51170-2RB	RB	T	Water	8260B	
680-51170-3	MW-20	T	Water	8260B	
680-51170-4	MW-22	T	Water	8260B	
680-51170-5	MW-23	T	Water	8260B	
680-51170-6FD	Dup	T	Water	8260B	
680-51170-7	MW-21	T	Water	8260B	
680-51170-10TB	Trip Blank	T	Water	8260B	

Report Basis
T = Total

Client: Ashland Inc.

Job Number: 680-51170-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 680-149426					
LCS 680-149426/9-A	Lab Control Sample	T	Water	3520C	
MB 680-149426/8-A	Method Blank	T	Water	3520C	
680-51170-1	MW-24	T	Water	3520C	
680-51170-1MS	Matrix Spike	T	Water	3520C	
680-51170-1MSD	Matrix Spike Duplicate	T	Water	3520C	
680-51170-2RB	RB	T	Water	3520C	
680-51170-3	MW-20	T	Water	3520C	
680-51170-4	MW-22	T	Water	3520C	
680-51170-5	MW-23	T	Water	3520C	
680-51170-6FD	Dup	T	Water	3520C	
680-51170-7	MW-21	T	Water	3520C	
Analysis Batch:680-149819					
LCS 680-149426/9-A	Lab Control Sample	T	Water	8270C	680-149426
MB 680-149426/8-A	Method Blank	T	Water	8270C	680-149426
680-51170-2RB	RB	T	Water	8270C	680-149426
Analysis Batch:680-150416					
680-51170-1	MW-24	T	Water	8270C	680-149426
680-51170-1MS	Matrix Spike	T	Water	8270C	680-149426
680-51170-1MSD	Matrix Spike Duplicate	T	Water	8270C	680-149426
680-51170-3	MW-20	T	Water	8270C	680-149426
680-51170-7	MW-21	T	Water	8270C	680-149426
Analysis Batch:680-150417					
680-51170-5	MW-23	T	Water	8270C	680-149426
680-51170-6FD	Dup	T	Water	8270C	680-149426
Analysis Batch:680-150498					
680-51170-4	MW-22	T	Water	8270C	680-149426
Prep Batch: 680-150728					
LCS 680-150728/21-A	Lab Control Sample	T	Water	3520C	
MB 680-150728/20-A	Method Blank	T	Water	3520C	
680-51170-1RE	MW-24	T	Water	3520C	
680-51170-1MSRE	Matrix Spike	T	Water	3520C	
680-51170-1MSDRE	Matrix Spike Duplicate	T	Water	3520C	
680-51170-2RBRE	RB	T	Water	3520C	
680-51170-3RE	MW-20	T	Water	3520C	
680-51170-4RE	MW-22	T	Water	3520C	
680-51170-5RE	MW-23	T	Water	3520C	
680-51170-6FDRE	Dup	T	Water	3520C	
680-51170-7RE	MW-21	T	Water	3520C	

Client: Ashland Inc.

Job Number: 680-51170-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:680-151231					
LCS 680-150728/21-A	Lab Control Sample	T	Water	8270C	680-150728
MB 680-150728/20-A	Method Blank	T	Water	8270C	680-150728
680-51170-1RE	MW-24	T	Water	8270C	680-150728
680-51170-1MSRE	Matrix Spike	T	Water	8270C	680-150728
680-51170-3RE	MW-20	T	Water	8270C	680-150728
Analysis Batch:680-151289					
680-51170-1MSDRE	Matrix Spike Duplicate	T	Water	8270C	680-150728
680-51170-2RBRE	RB	T	Water	8270C	680-150728
680-51170-4RE	MW-22	T	Water	8270C	680-150728
680-51170-5RE	MW-23	T	Water	8270C	680-150728
680-51170-6FDRE	Dup	T	Water	8270C	680-150728
Analysis Batch:680-151383					
680-51170-7RE	MW-21	T	Water	8270C	680-150728

Report Basis
T = Total

Client: Ashland Inc.

Job Number: 680-51170-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 680-149433					
LCS 680-149433/11-A	Lab Control Sample	T	Water	3520C	
LCS 680-149433/14-A	Lab Control Sample	T	Water	3520C	
MB 680-149433/10-A	Method Blank	T	Water	3520C	
680-51170-1	MW-24	T	Water	3520C	
680-51170-1MS	Matrix Spike	T	Water	3520C	
680-51170-1MSD	Matrix Spike Duplicate	T	Water	3520C	
680-51170-2RB	RB	T	Water	3520C	
680-51170-3	MW-20	T	Water	3520C	
680-51170-4	MW-22	T	Water	3520C	
680-51170-5	MW-23	T	Water	3520C	
680-51170-6FD	Dup	T	Water	3520C	
680-51170-7	MW-21	T	Water	3520C	
Analysis Batch:680-149832					
LCS 680-149433/11-A	Lab Control Sample	T	Water	8081A_8082	680-149433
LCS 680-149433/14-A	Lab Control Sample	T	Water	8081A_8082	680-149433
MB 680-149433/10-A	Method Blank	T	Water	8081A_8082	680-149433
680-51170-1	MW-24	T	Water	8081A_8082	680-149433
680-51170-1MS	Matrix Spike	T	Water	8081A_8082	680-149433
680-51170-1MSD	Matrix Spike Duplicate	T	Water	8081A_8082	680-149433
680-51170-2RB	RB	T	Water	8081A_8082	680-149433
680-51170-3	MW-20	T	Water	8081A_8082	680-149433
680-51170-4	MW-22	T	Water	8081A_8082	680-149433
680-51170-5	MW-23	T	Water	8081A_8082	680-149433
680-51170-6FD	Dup	T	Water	8081A_8082	680-149433
680-51170-7	MW-21	T	Water	8081A_8082	680-149433

Report Basis
T = Total

Client: Ashland Inc.

Job Number: 680-51170-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-149436					
LCS 680-149436/16-A	Lab Control Sample	T	Water	7470A	
MB 680-149436/15-A	Method Blank	T	Water	7470A	
680-51170-1	MW-24	T	Water	7470A	
680-51170-1MS	Matrix Spike	T	Water	7470A	
680-51170-1MSD	Matrix Spike Duplicate	T	Water	7470A	
680-51170-2RB	RB	T	Water	7470A	
680-51170-3	MW-20	T	Water	7470A	
680-51170-4	MW-22	T	Water	7470A	
680-51170-5	MW-23	T	Water	7470A	
680-51170-6FD	Dup	T	Water	7470A	
680-51170-7	MW-21	T	Water	7470A	
Prep Batch: 680-149455					
LCS 680-149455/9-A	Lab Control Sample	T	Water	3010A	
MB 680-149455/8-A	Method Blank	T	Water	3010A	
680-51170-1	MW-24	T	Water	3010A	
680-51170-1MS	Matrix Spike	T	Water	3010A	
680-51170-1MSD	Matrix Spike Duplicate	T	Water	3010A	
680-51170-2RB	RB	T	Water	3010A	
680-51170-3	MW-20	T	Water	3010A	
680-51170-4	MW-22	T	Water	3010A	
680-51170-5	MW-23	T	Water	3010A	
680-51170-6FD	Dup	T	Water	3010A	
680-51170-7	MW-21	T	Water	3010A	
Analysis Batch:680-149607					
LCS 680-149455/9-A	Lab Control Sample	T	Water	6010B	680-149455
MB 680-149455/8-A	Method Blank	T	Water	6010B	680-149455
680-51170-1	MW-24	T	Water	6010B	680-149455
680-51170-1MS	Matrix Spike	T	Water	6010B	680-149455
680-51170-1MSD	Matrix Spike Duplicate	T	Water	6010B	680-149455
680-51170-2RB	RB	T	Water	6010B	680-149455
680-51170-3	MW-20	T	Water	6010B	680-149455
680-51170-4	MW-22	T	Water	6010B	680-149455
680-51170-5	MW-23	T	Water	6010B	680-149455
680-51170-6FD	Dup	T	Water	6010B	680-149455
680-51170-7	MW-21	T	Water	6010B	680-149455

Client: Ashland Inc.

Job Number: 680-51170-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-149950					
LCS 680-149436/16-A	Lab Control Sample	T	Water	7470A	680-149436
MB 680-149436/15-A	Method Blank	T	Water	7470A	680-149436
680-51170-1	MW-24	T	Water	7470A	680-149436
680-51170-1MS	Matrix Spike	T	Water	7470A	680-149436
680-51170-1MSD	Matrix Spike Duplicate	T	Water	7470A	680-149436
680-51170-2RB	RB	T	Water	7470A	680-149436
680-51170-3	MW-20	T	Water	7470A	680-149436
680-51170-4	MW-22	T	Water	7470A	680-149436
680-51170-5	MW-23	T	Water	7470A	680-149436
680-51170-6FD	Dup	T	Water	7470A	680-149436
680-51170-7	MW-21	T	Water	7470A	680-149436

Report Basis
T = Total

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-51170-1	MW-24	100	105	99
680-51170-2	RB	99	104	102
680-51170-3	MW-20	99	109	98
680-51170-4	MW-22	100	105	96
680-51170-5	MW-23	101	101	101
680-51170-6	Dup	100	103	103
680-51170-7	MW-21	101	105	99
680-51170-8	Trip Blank	101	105	116
680-51170-9	Trip Blank	100	105	118
680-51170-10	Trip Blank	97	103	103
MB 680-149440/23		102	104	101
MB 680-149463/9		101	102	103
LCS 680-149440/21		99	98	104
LCS 680-149463/4		100	102	100
LCSD 680-149440/22		97	99	103
LCSD 680-149463/5		99	100	99
680-51170-1 MS	MW-24 MS	98	100	103
680-51170-1 MSD	MW-24 MSD	98	102	103

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Ashland Inc.

Job Number: 680-51170-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	TPH %Rec	PHL %Rec	NBZ %Rec
680-51170-1	MW-24	87	68	69	82	69	70
680-51170-1 RE	MW-24 RE	71	75	67	28	67	75
680-51170-2 RE	RB RE	76	74	71	80	74	76
680-51170-2	RB	81	77	69	75	65	73
680-51170-3	MW-20	121	101	112X	56	110	109
680-51170-3 RE	MW-20 RE	60	62	55	29	56	63
680-51170-4	MW-22	0D	0D	0D	0D	0D	0D
680-51170-4 RE	MW-22 RE	0D	0D	0D	0D	0D	0D
680-51170-5	MW-23	0D	0D	0D	0D	0D	0D
680-51170-5 RE	MW-23 RE	0D	0D	0D	0D	0D	0D
680-51170-6	Dup	0D	0D	0D	0D	0D	0D
680-51170-6 RE	Dup RE	0D	0D	0D	0D	0D	0D
680-51170-7	MW-21	0D	0D	0D	0D	0D	0D
680-51170-7 RE	MW-21 RE	0D	0D	0D	0D	0D	0D
MB 680-149426/8-A		76	75	64	74	58	76
MB 680-150728/20-A		72	72	70	77	71	74
LCS 680-149426/9-A		83	77	78	79	77	83
LCS 680-150728/21-A		75	78	68	77	71	74
680-51170-1 MS	MW-24 MS	106	83	84	42	83	82
680-51170-1 MS RE	MW-24 MS RE	67	71	65	30	66	71
680-51170-1 MSD	MW-24 MSD	81	83	74	27	72	81
680-51170-1 MSD RE	MW-24 MSD RE	70	74	65	31	66	74

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol	40-139
FBP = 2-Fluorobiphenyl	50-113
2FP = 2-Fluorophenol	36-110
TPH = Terphenyl-d14	10-121
PHL = Phenol-d5	38-116
NBZ = Nitrobenzene-d5	45-112

Surrogate Recovery Report

8081A_8082_Organochlorine Pesticides & PCBs (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
680-51170-1	MW-24		18		54
680-51170-2	RB	58			56
680-51170-3	MW-20	11p X			67
680-51170-4	MW-22		11X	48	
680-51170-5	MW-23	16		61	
680-51170-6	Dup	16		68	
680-51170-7	MW-21	24		75	
MB 680-149433/10-A		76			82
LCS 680-149433/11-A			66		77
LCS 680-149433/14-A			84		68
680-51170-1 MS	MW-24 MS		21		53
680-51170-1 MSD	MW-24 MSD		17		65

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	14-115
TCX = Tetrachloro-m-xylene	35-120

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149440

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-149440/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/30/2009 1200
Date Prepared: 09/30/2009 1200

Analysis Batch: 680-149440
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq527.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Acetone	<25		25
Acetonitrile	<40		40
Acrolein	<20		20
Acrylonitrile	<20		20
Benzene	<1.0		1.0
Dichlorobromomethane	<1.0		1.0
Bromoform	<1.0		1.0
Bromomethane	<1.0		1.0
2-Butanone (MEK)	<10		10
Carbon disulfide	<2.0		2.0
Carbon tetrachloride	<1.0		1.0
Chlorobenzene	<1.0		1.0
Chloroethane	<1.0		1.0
Chloroform	<1.0		1.0
Chloromethane	<1.0		1.0
2-Chloro-1,3-butadiene	<1.0		1.0
3-Chloro-1-propene	<1.0		1.0
Chlorodibromomethane	<1.0		1.0
1,2-Dibromo-3-Chloropropane	<1.0		1.0
Ethylene Dibromide	<1.0		1.0
Dibromomethane	<1.0		1.0
trans-1,4-Dichloro-2-butene	<2.0		2.0
Dichlorodifluoromethane	<1.0		1.0
1,1-Dichloroethane	<1.0		1.0
1,2-Dichloroethane	<1.0		1.0
1,1-Dichloroethene	<1.0		1.0
cis-1,2-Dichloroethene	<1.0		1.0
trans-1,2-Dichloroethene	<1.0		1.0
1,2-Dichloropropane	<1.0		1.0
cis-1,3-Dichloropropene	<1.0		1.0
trans-1,3-Dichloropropene	<1.0		1.0
Ethylbenzene	<1.0		1.0
Ethyl methacrylate	<1.0		1.0
2-Hexanone	<10		10
Iodomethane	<5.0		5.0
Isobutyl alcohol	<40		40
Methacrylonitrile	<20		20
Methylene Chloride	<5.0		5.0
Methyl methacrylate	<1.0		1.0
4-Methyl-2-pentanone (MIBK)	<10		10
Pentachloroethane	<5.0		5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149440

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 680-149440/23	Analysis Batch:	680-149440	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq527.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1200			Final Weight/Volume:	5 mL
Date Prepared:	09/30/2009 1200				

Analyte	Result	Qual	RL
Propionitrile	<20		20
Styrene	<1.0		1.0
1,1,1,2-Tetrachloroethane	<1.0		1.0
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	104	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-149440

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-149440/21	Analysis Batch:	680-149440	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq519.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1002			Final Weight/Volume:	5 mL
Date Prepared:	09/30/2009 1002				

LCSD Lab Sample ID:	LCSD 680-149440/22	Analysis Batch:	680-149440	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq521.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1031			Final Weight/Volume:	5 mL
Date Prepared:	09/30/2009 1031				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	91	100	17 - 175	9	50		
Benzene	103	103	77 - 119	0	30		
Dichlorobromomethane	97	99	78 - 127	2	30		
Bromoform	90	91	62 - 133	1	30		
Bromomethane	158	161	12 - 184	2	50		
2-Butanone (MEK)	95	95	33 - 157	0	30		
Carbon disulfide	154	150	55 - 131	3	30	*	*
Carbon tetrachloride	106	101	71 - 135	5	30		
Chlorobenzene	100	97	85 - 116	2	30		
Chloroethane	118	115	40 - 165	3	50		
Chloroform	106	104	82 - 120	2	30		
Chloromethane	125	120	48 - 142	5	50		
Chlorodibromomethane	93	93	75 - 133	0	30		
1,2-Dibromo-3-Chloropropane	91	93	49 - 140	2	30		
Ethylene Dibromide	98	102	80 - 121	5	30		
Dibromomethane	97	100	78 - 119	3	30		
Dichlorodifluoromethane	143	129	34 - 154	10	30		
1,1-Dichloroethane	109	103	74 - 127	5	30		
1,2-Dichloroethane	99	101	66 - 132	3	30		
1,1-Dichloroethene	123	116	62 - 141	6	30		
cis-1,2-Dichloroethene	110	112	69 - 134	2	30		
trans-1,2-Dichloroethene	106	104	72 - 131	2	30		
1,2-Dichloropropane	106	104	73 - 124	2	30		
cis-1,3-Dichloropropene	100	101	76 - 126	1	30		
trans-1,3-Dichloropropene	100	101	73 - 128	2	30		
Ethylbenzene	111	107	86 - 116	4	30		
2-Hexanone	96	97	34 - 161	1	30		
Methylene Chloride	100	101	70 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	88	92	40 - 151	5	30		
Styrene	110	108	82 - 122	2	30		
1,1,1,2-Tetrachloroethane	94	92	81 - 128	2	30		
1,1,2,2-Tetrachloroethane	94	95	69 - 129	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-149440

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-149440/21	Analysis Batch:	680-149440	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq519.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1002			Final Weight/Volume:	5 mL
Date Prepared:	09/30/2009 1002				

LCSD Lab Sample ID:	LCSD 680-149440/22	Analysis Batch:	680-149440	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq521.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1031			Final Weight/Volume:	5 mL
Date Prepared:	09/30/2009 1031				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Tetrachloroethene	104	100	76 - 126	4	30		
Toluene	103	105	81 - 117	2	30		
1,1,1-Trichloroethane	106	100	76 - 127	6	30		
1,1,2-Trichloroethane	95	101	75 - 121	6	30		
Trichloroethene	103	104	84 - 115	1	30		
Trichlorofluoromethane	127	117	58 - 149	8	50		
1,2,3-Trichloropropane	95	98	70 - 130	3	30		
Vinyl acetate	168	167	10 - 217	0	30		
Vinyl chloride	121	115	59 - 144	5	50		
Xylenes, Total	108	104	84 - 118	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	97	75 - 120
Dibromofluoromethane	98	99	75 - 121
Toluene-d8 (Surr)	104	103	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149463

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-149463/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/01/2009 1154
Date Prepared: 10/01/2009 1154

Analysis Batch: 680-149463
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq535.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Acetone	<25		25
Acetonitrile	<40		40
Acrolein	<20		20
Acrylonitrile	<20		20
Benzene	<1.0		1.0
Dichlorobromomethane	<1.0		1.0
Bromoform	<1.0		1.0
Bromomethane	<1.0		1.0
2-Butanone (MEK)	<10		10
Carbon disulfide	<2.0		2.0
Carbon tetrachloride	<1.0		1.0
Chlorobenzene	<1.0		1.0
Chloroethane	<1.0		1.0
Chloroform	<1.0		1.0
Chloromethane	<1.0		1.0
2-Chloro-1,3-butadiene	<1.0		1.0
3-Chloro-1-propene	<1.0		1.0
Chlorodibromomethane	<1.0		1.0
1,2-Dibromo-3-Chloropropane	<1.0		1.0
Ethylene Dibromide	<1.0		1.0
Dibromomethane	<1.0		1.0
trans-1,4-Dichloro-2-butene	<2.0		2.0
Dichlorodifluoromethane	<1.0		1.0
1,1-Dichloroethane	<1.0		1.0
1,2-Dichloroethane	<1.0		1.0
1,1-Dichloroethene	<1.0		1.0
cis-1,2-Dichloroethene	<1.0		1.0
trans-1,2-Dichloroethene	<1.0		1.0
1,2-Dichloropropane	<1.0		1.0
cis-1,3-Dichloropropene	<1.0		1.0
trans-1,3-Dichloropropene	<1.0		1.0
Ethylbenzene	<1.0		1.0
Ethyl methacrylate	<1.0		1.0
2-Hexanone	<10		10
Iodomethane	<5.0		5.0
Isobutyl alcohol	<40		40
Methacrylonitrile	<20		20
Methylene Chloride	<5.0		5.0
Methyl methacrylate	<1.0		1.0
4-Methyl-2-pentanone (MIBK)	<10		10
Pentachloroethane	<5.0		5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149463

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-149463/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/01/2009 1154
Date Prepared: 10/01/2009 1154

Analysis Batch: 680-149463
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq535.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Propionitrile	<20		20
Styrene	<1.0		1.0
1,1,1,2-Tetrachloroethane	<1.0		1.0
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	75 - 120
Dibromofluoromethane	102	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-149463

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-149463/4	Analysis Batch:	680-149463	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq531.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	10/01/2009 1036			Final Weight/Volume:	5 mL
Date Prepared:	10/01/2009 1036				

LCSD Lab Sample ID:	LCSD 680-149463/5	Analysis Batch:	680-149463	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq532.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	10/01/2009 1055			Final Weight/Volume:	5 mL
Date Prepared:	10/01/2009 1055				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	103	100	17 - 175	3	50		
Benzene	103	102	77 - 119	1	30		
Dichlorobromomethane	100	99	78 - 127	1	30		
Bromoform	94	92	62 - 133	3	30		
Bromomethane	153	161	12 - 184	5	50		
2-Butanone (MEK)	97	98	33 - 157	1	30		
Carbon disulfide	160	159	55 - 131	0	30	*	*
Carbon tetrachloride	107	106	71 - 135	1	30		
Chlorobenzene	99	98	85 - 116	1	30		
Chloroethane	124	124	40 - 165	0	50		
Chloroform	106	106	82 - 120	0	30		
Chloromethane	131	129	48 - 142	1	50		
Chlorodibromomethane	91	91	75 - 133	0	30		
1,2-Dibromo-3-Chloropropane	93	92	49 - 140	2	30		
Ethylene Dibromide	99	98	80 - 121	1	30		
Dibromomethane	97	97	78 - 119	0	30		
Dichlorodifluoromethane	147	145	34 - 154	1	30		
1,1-Dichloroethane	109	108	74 - 127	1	30		
1,2-Dichloroethane	100	96	66 - 132	4	30		
1,1-Dichloroethene	123	122	62 - 141	1	30		
cis-1,2-Dichloroethene	114	114	69 - 134	0	30		
trans-1,2-Dichloroethene	109	110	72 - 131	1	30		
1,2-Dichloropropane	103	102	73 - 124	1	30		
cis-1,3-Dichloropropene	107	100	76 - 126	7	30		
trans-1,3-Dichloropropene	96	95	73 - 128	1	30		
Ethylbenzene	113	110	86 - 116	3	30		
2-Hexanone	99	96	34 - 161	3	30		
Methylene Chloride	102	100	70 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	94	91	40 - 151	2	30		
Styrene	112	110	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	94	93	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	97	96	69 - 129	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-149463

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-149463/4	Analysis Batch:	680-149463	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq531.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	10/01/2009 1036			Final Weight/Volume:	5 mL
Date Prepared:	10/01/2009 1036				

LCSD Lab Sample ID:	LCSD 680-149463/5	Analysis Batch:	680-149463	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq532.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	10/01/2009 1055			Final Weight/Volume:	5 mL
Date Prepared:	10/01/2009 1055				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Tetrachloroethene	102	102	76 - 126	0	30		
Toluene	99	99	81 - 117	0	30		
1,1,1-Trichloroethane	104	104	76 - 127	1	30		
1,1,2-Trichloroethane	93	94	75 - 121	2	30		
Trichloroethene	104	104	84 - 115	0	30		
Trichlorofluoromethane	129	131	58 - 149	1	50		
1,2,3-Trichloropropane	99	96	70 - 130	3	30		
Vinyl acetate	170	170	10 - 217	0	30		
Vinyl chloride	123	122	59 - 144	1	50		
Xylenes, Total	109	107	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	99	75 - 120
Dibromofluoromethane	102	100	75 - 121
Toluene-d8 (Surr)	100	99	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149463

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-149463	Instrument ID: GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: a1079.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	10/01/2009 2014		Final Weight/Volume: 5 mL
Date Prepared:	10/01/2009 2014		

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-149463	Instrument ID: GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: a1080.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	10/01/2009 2043		Final Weight/Volume: 5 mL
Date Prepared:	10/01/2009 2043		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	86	88	17 - 175	2	50		
Benzene	102	101	77 - 119	0	30		
Dichlorobromomethane	93	90	78 - 127	4	30		
Bromoform	88	87	62 - 133	1	30		
Bromomethane	145	167	12 - 184	14	50		
2-Butanone (MEK)	87	89	33 - 157	2	30		
Carbon disulfide	160	161	55 - 131	1	30	F	F
Carbon tetrachloride	109	109	71 - 135	0	30		
Chlorobenzene	101	99	85 - 116	2	30		
Chloroethane	122	120	40 - 165	2	50		
Chloroform	106	108	82 - 120	1	30		
Chloromethane	124	128	48 - 142	3	50		
Chlorodibromomethane	90	91	75 - 133	0	30		
1,2-Dibromo-3-Chloropropane	82	88	49 - 140	6	30		
Ethylene Dibromide	93	91	80 - 121	2	30		
Dibromomethane	96	94	78 - 119	2	30		
Dichlorodifluoromethane	154	153	34 - 154	1	30		
1,1-Dichloroethane	106	107	74 - 127	1	30		
1,2-Dichloroethane	99	97	66 - 132	2	30		
cis-1,2-Dichloroethene	112	112	69 - 134	1	30		
trans-1,2-Dichloroethene	111	111	72 - 131	0	30		
1,1-Dichloroethene	130	128	62 - 141	1	30		
1,2-Dichloropropane	100	99	73 - 124	1	30		
cis-1,3-Dichloropropene	92	92	76 - 126	0	30		
trans-1,3-Dichloropropene	87	90	73 - 128	3	30		
Ethylbenzene	114	114	86 - 116	1	30		
2-Hexanone	88	86	34 - 161	2	30		
Methylene Chloride	98	100	70 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	83	83	40 - 151	0	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149463

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-149463	Instrument ID: GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: a1079.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	10/01/2009 2014		Final Weight/Volume: 5 mL
Date Prepared:	10/01/2009 2014		

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-149463	Instrument ID: GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: a1080.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	10/01/2009 2043		Final Weight/Volume: 5 mL
Date Prepared:	10/01/2009 2043		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Styrene	112	111	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	92	92	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	96	93	69 - 129	3	30		
Tetrachloroethene	109	109	76 - 126	0	30		
Toluene	104	105	81 - 117	0	30		
1,1,1-Trichloroethane	106	105	76 - 127	1	30		
1,1,2-Trichloroethane	91	93	75 - 121	2	30		
Trichloroethene	106	106	84 - 115	0	30		
Trichlorofluoromethane	134	136	58 - 149	1	50		
1,2,3-Trichloropropane	97	93	70 - 130	4	30		
Vinyl acetate	147	147	10 - 217	0	30		
Vinyl chloride	126	126	59 - 144	1	50		
Xylenes, Total	111	110	84 - 118	1	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	98	75 - 120
Dibromofluoromethane	100	102	75 - 121
Toluene-d8 (Surr)	103	103	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149426

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-149426/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2308
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149819
Prep Batch: 680-149426
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t3667.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
Acenaphthene	<10		10
Acenaphthylene	<10		10
Acetophenone	<10		10
2-Acetylaminofluorene	<10		10
alpha,alpha-Dimethyl phenethylamine	<2000		2000
4-Aminobiphenyl	<10		10
Aniline	<20		20
Anthracene	<10		10
Aramite, Total	<10		10
Benzo[a]anthracene	<10		10
Benzo[a]pyrene	<10		10
Benzo[b]fluoranthene	<10		10
Benzo[g,h,i]perylene	<10		10
Benzo[k]fluoranthene	<10		10
Benzyl alcohol	<10		10
1,1'-Biphenyl	<10		10
Bis(2-chloroethoxy)methane	<10		10
Bis(2-chloroethyl)ether	<10		10
bis(chloroisopropyl) ether	<10		10
Bis(2-ethylhexyl) phthalate	<10		10
4-Bromophenyl phenyl ether	<10		10
Butyl benzyl phthalate	<10		10
4-Chloroaniline	<20		20
4-Chloro-3-methylphenol	<10		10
2-Chloronaphthalene	<10		10
2-Chlorophenol	<10		10
4-Chlorophenyl phenyl ether	<10		10
Chrysene	<10		10
Diallate	<10		10
Dibenz(a,h)anthracene	<10		10
Dibenzofuran	<10		10
1,2-Dichlorobenzene	<10		10
1,3-Dichlorobenzene	<10		10
1,4-Dichlorobenzene	<10		10
3,3'-Dichlorobenzidine	<20		20
2,4-Dichlorophenol	<10		10
2,6-Dichlorophenol	<10		10
Diethyl phthalate	<10		10
Dimethoate	<10		10
7,12-Dimethylbenz(a)anthracene	<10		10
3,3'-Dimethylbenzidine	<20		20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149426

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-149426/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2308
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149819
Prep Batch: 680-149426
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t3667.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
2,4-Dimethylphenol	<10		10
Dimethyl phthalate	<10		10
Di-n-butyl phthalate	<10		10
1,3-Dinitrobenzene	<10		10
4,6-Dinitro-2-methylphenol	<50		50
2,4-Dinitrophenol	<50		50
2,4-Dinitrotoluene	<10		10
2,6-Dinitrotoluene	<10		10
Di-n-octyl phthalate	<10		10
Dinoseb	<10		10
1,4-Dioxane	<10		10
Disulfoton	<10		10
Ethyl methanesulfonate	<10		10
Ethyl Parathion	<10		10
Famphur	<10		10
Fluoranthene	<10		10
Fluorene	<10		10
Hexachlorobenzene	<10		10
Hexachlorobutadiene	<10		10
Hexachlorocyclopentadiene	<10		10
Hexachloroethane	<10		10
Hexachlorophene	<5000		5000
Hexachloropropene	<10		10
Indeno[1,2,3-cd]pyrene	<10		10
Isophorone	<10		10
Isosafrole	<10		10
Methapyrilene	<2000		2000
3-Methylcholanthrene	<10		10
Methyl methanesulfonate	<10		10
2-Methylnaphthalene	<10		10
Methyl parathion	<10		10
2-Methylphenol	<10		10
3 & 4 Methylphenol	<10		10
Naphthalene	<10		10
1,4-Naphthoquinone	<10		10
1-Naphthylamine	<10		10
2-Naphthylamine	<10		10
2-Nitroaniline	<50		50
3-Nitroaniline	<50		50
4-Nitroaniline	<50		50
Nitrobenzene	<10		10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149426

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-149426/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2308
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149819
Prep Batch: 680-149426
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t3667.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
2-Nitrophenol	<10		10
4-Nitrophenol	<50		50
4-Nitroquinoline-1-oxide	<20		20
N-Nitro-o-toluidine	<10		10
N-Nitrosodiethylamine	<10		10
N-Nitrosodimethylamine	<10		10
N-Nitrosodi-n-butylamine	<10		10
N-Nitrosodi-n-propylamine	<10		10
N-Nitrosodiphenylamine	<10		10
N-Nitrosomethylethylamine	<10		10
N-Nitrosomorpholine	<10		10
N-Nitrosopiperidine	<10		10
N-Nitrosopyrrolidine	<10		10
o,o',o''-Triethylphosphorothioate	<10		10
p-Dimethylamino azobenzene	<10		10
Pentachlorobenzene	<10		10
Pentachloronitrobenzene	<10		10
Pentachlorophenol	<50		50
Phenacetin	<10		10
Phenanthrene	<10		10
Phenol	<10		10
Phorate	<10		10
2-Picoline	<10		10
p-Phenylene diamine	<2000		2000
Pronamide	<10		10
Pyrene	<10		10
Pyridine	<50		50
Safrole, Total	<10		10
Sulfotepp	<10		10
1,2,4,5-Tetrachlorobenzene	<10		10
2,3,4,6-Tetrachlorophenol	<10		10
Thionazin	<10		10
2-Toluidine	<10		10
1,2,4-Trichlorobenzene	<10		10
2,4,5-Trichlorophenol	<10		10
2,4,6-Trichlorophenol	<10		10
1,3,5-Trinitrobenzene	<10		10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	76	40 - 139
2-Fluorobiphenyl	75	50 - 113

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	64	36 - 110
Terphenyl-d14	74	10 - 121
Phenol-d5	58	38 - 116
Nitrobenzene-d5	76	45 - 112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-149426

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-149426/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2332
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149819
Prep Batch: 680-149426
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t3668.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	100	72.8	73	45 - 117	
Acenaphthylene	100	73.6	74	51 - 112	
Acetophenone	100	74.3	74	25 - 110	
2-Acetylaminofluorene	100	115	115	69 - 123	
alpha,alpha-Dimethyl phenethylamine	500	<2000	0	10 - 158	*
4-Aminobiphenyl	100	36.2	36	10 - 130	
Aniline	100	<20	13	10 - 114	
Anthracene	100	73.1	73	52 - 116	
Aramite, Total	100	106	106	10 - 150	
Benzo[a]anthracene	100	87.1	87	49 - 124	
Benzo[a]pyrene	100	77.6	78	48 - 120	
Benzo[b]fluoranthene	100	95.9	96	46 - 126	
Benzo[g,h,i]perylene	100	73.2	73	51 - 117	
Benzo[k]fluoranthene	100	54.4	54	47 - 126	
Benzyl alcohol	100	70.0	70	34 - 113	
1,1'-Biphenyl	100	65.5	66	47 - 112	
Bis(2-chloroethoxy)methane	100	121	121	50 - 112	*
Bis(2-chloroethyl)ether	100	83.3	83	43 - 110	
bis(chloroisopropyl) ether	100	89.6	90	42 - 110	
Bis(2-ethylhexyl) phthalate	100	85.8	86	47 - 134	
4-Bromophenyl phenyl ether	100	76.3	76	42 - 110	
Butyl benzyl phthalate	100	91.9	92	52 - 135	
4-Chloroaniline	100	60.0	60	10 - 110	
4-Chloro-3-methylphenol	100	84.1	84	46 - 118	
2-Chloronaphthalene	100	77.1	77	47 - 110	
2-Chlorophenol	100	77.3	77	47 - 110	
4-Chlorophenyl phenyl ether	100	75.9	76	46 - 114	
Chrysene	100	76.7	77	51 - 123	
Diallate	100	105	105	36 - 145	
Dibenz(a,h)anthracene	100	89.9	90	46 - 124	
Dibenzofuran	100	74.3	74	50 - 112	
1,2-Dichlorobenzene	100	67.8	68	39 - 110	
1,3-Dichlorobenzene	100	63.6	64	36 - 110	
1,4-Dichlorobenzene	100	65.6	66	38 - 110	
3,3'-Dichlorobenzidine	100	86.5	86	10 - 113	
2,4-Dichlorophenol	100	77.8	78	46 - 115	
2,6-Dichlorophenol	100	88.8	89	46 - 130	
Diethyl phthalate	100	88.0	88	51 - 119	
Dimethoate	100	78.2	78	28 - 142	
7,12-Dimethylbenz(a)anthracene	100	63.7	64	39 - 130	
3,3'-Dimethylbenzidine	100	<20	3	10 - 130	*

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-149426

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-149426/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2332
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149819
Prep Batch: 680-149426
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t3668.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-Dimethylphenol	200	150	75	36 - 110	
Dimethyl phthalate	100	86.6	87	50 - 116	
Di-n-butyl phthalate	100	73.4	73	49 - 123	
1,3-Dinitrobenzene	100	98.3	98	53 - 136	
4,6-Dinitro-2-methylphenol	100	87.5	87	29 - 167	
2,4-Dinitrophenol	100	103	103	10 - 189	
2,4-Dinitrotoluene	100	78.2	78	49 - 128	
2,6-Dinitrotoluene	100	78.0	78	45 - 131	
Di-n-octyl phthalate	100	90.9	91	44 - 134	
Dinoseb	100	88.7	89	50 - 144	
1,4-Dioxane	100	39.2	39	11 - 110	
Disulfoton	100	85.1	85	40 - 130	
Ethyl methanesulfonate	100	84.5	85	32 - 130	
Ethyl Parathion	100	91.4	91	60 - 140	
Famphur	100	77.5	77	10 - 130	
Fluoranthene	100	68.2	68	50 - 120	
Fluorene	100	75.0	75	50 - 115	
Hexachlorobenzene	100	74.5	75	48 - 119	
Hexachlorobutadiene	100	69.4	69	40 - 110	
Hexachlorocyclopentadiene	100	61.7	62	10 - 110	
Hexachloroethane	100	64.0	64	33 - 110	
Hexachlorophene	500	<5000	26	10 - 130	
Hexachloropropene	100	31.8	32	10 - 130	
Indeno[1,2,3-cd]pyrene	100	92.3	92	40 - 126	
Isophorone	100	83.0	83	50 - 111	
Isosafrole	100	89.7	90	37 - 130	
Methapyrilene	100	<2000	0	10 - 130	*
3-Methylcholanthrene	100	78.5	79	62 - 130	
Methyl methanesulfonate	100	<10	4	10 - 130	*
2-Methylnaphthalene	100	82.5	83	46 - 110	
Methyl parathion	100	84.4	84	51 - 146	
2-Methylphenol	100	83.7	84	46 - 110	
3 & 4 Methylphenol	100	76.4	76	43 - 110	
Naphthalene	100	88.2	88	41 - 110	
1,4-Naphthoquinone	100	11.2	11	10 - 130	
1-Naphthylamine	100	<10	0	10 - 130	*
2-Naphthylamine	100	30.8	31	10 - 130	
2-Nitroaniline	100	76.7	77	45 - 122	
3-Nitroaniline	100	75.4	75	30 - 116	
4-Nitroaniline	100	74.9	75	36 - 125	
Nitrobenzene	100	74.5	75	46 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-149426

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-149426/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2332
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149819
Prep Batch: 680-149426
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t3668.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Nitrophenol	100	76.2	76	42 - 120	
4-Nitrophenol	100	72.4	72	30 - 122	
4-Nitroquinoline-1-oxide	100	22.9	23	10 - 151	
N-Nitro-o-toluidine	100	84.2	84	45 - 130	
N-Nitrosodiethylamine	100	84.4	84	48 - 130	
N-Nitrosodimethylamine	100	70.3	70	33 - 110	
N-Nitrosodi-n-butylamine	100	121	121	41 - 130	
N-Nitrosodi-n-propylamine	100	85.7	86	45 - 112	
N-Nitrosodiphenylamine	100	85.8	86	47 - 119	
N-Nitrosomethylethylamine	100	97.1	97	47 - 130	
N-Nitrosomorpholine	100	93.3	93	35 - 130	
N-Nitrosopiperidine	100	91.6	92	53 - 130	
N-Nitrosopyrrolidine	100	73.3	73	50 - 130	
o,o',o''-Triethylphosphorothioate	100	147	147	23 - 162	E
p-Dimethylamino azobenzene	100	105	105	29 - 169	
Pentachlorobenzene	100	79.6	80	52 - 130	
Pentachloronitrobenzene	100	96.9	97	52 - 130	
Pentachlorophenol	100	82.4	82	37 - 132	
Phenacetin	100	85.5	86	62 - 130	
Phenanthrene	100	72.7	73	52 - 117	
Phenol	100	76.1	76	39 - 110	
Phorate	100	115	115	29 - 181	
2-Picoline	100	<10	1	10 - 130	*
p-Phenylene diamine	500	<2000	0	10 - 130	*
Pronamide	100	99.8	100	64 - 134	
Pyrene	100	78.7	79	52 - 125	
Pyridine	100	<50	1	10 - 110	*
Safrole, Total	100	91.4	91	39 - 130	
Sulfotepp	100	112	112	44 - 130	
1,2,4,5-Tetrachlorobenzene	100	75.7	76	41 - 130	
2,3,4,6-Tetrachlorophenol	100	99.1	99	38 - 130	
Thionazin	100	83.4	83	48 - 135	
2-Toluidine	100	37.7	38	27 - 130	
1,2,4-Trichlorobenzene	100	70.1	70	41 - 110	
2,4,5-Trichlorophenol	100	78.5	79	47 - 122	
2,4,6-Trichlorophenol	100	77.3	77	46 - 120	
1,3,5-Trinitrobenzene	100	94.0	94	10 - 200	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	83	40 - 139
2-Fluorobiphenyl	77	50 - 113

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	78	36 - 110
Terphenyl-d14	79	10 - 121
Phenol-d5	77	38 - 116
Nitrobenzene-d5	83	45 - 112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149426

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5587.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1358		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5588.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1422		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	85	82	45 - 117	4	40		
Acenaphthylene	83	79	51 - 112	4	40		
Acetophenone	74	63	25 - 110	16	40		
2-Acetylaminofluorene	106	105	69 - 123	1	40		
alpha,alpha-Dimethyl phenethylamine	0	21	10 - 158	NC	40	F	
4-Aminobiphenyl	11	39	10 - 130	113	40		F
Aniline	76	63	10 - 114	18	40		
Anthracene	83	80	52 - 116	3	40		
Aramite, Total	104	91	10 - 150	13	40		
Benzo[a]anthracene	87	79	49 - 124	10	40		
Benzo[a]pyrene	96	91	48 - 120	5	40		
Benzo[b]fluoranthene	106	106	46 - 126	0	40		
Benzo[g,h,i]perylene	78	70	51 - 117	11	40		
Benzo[k]fluoranthene	73	63	47 - 126	14	40		
Benzyl alcohol	82	80	34 - 113	3	40		
1,1'-Biphenyl	82	81	47 - 112	2	40		
Bis(2-chloroethoxy)methane	109	106	50 - 112	2	40		
Bis(2-chloroethyl)ether	98	97	43 - 110	1	40		
bis(chloroisopropyl) ether	80	77	42 - 110	3	40		
Bis(2-ethylhexyl) phthalate	96	87	47 - 134	10	40		
4-Bromophenyl phenyl ether	92	85	42 - 110	7	40		
Butyl benzyl phthalate	96	87	52 - 135	9	40		
4-Chloroaniline	26	59	10 - 110	76	40		F
4-Chloro-3-methylphenol	92	79	46 - 118	14	40		
2-Chloronaphthalene	84	83	47 - 110	1	40		
2-Chlorophenol	82	76	47 - 110	7	40		
4-Chlorophenyl phenyl ether	91	85	46 - 114	7	40		
Chrysene	86	81	51 - 123	6	40		
Diallate	93	93	36 - 145	0	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149426

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5587.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1358		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5588.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1422		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dibenz(a,h)anthracene	85	79	46 - 124	8	40		
Dibenzofuran	84	83	50 - 112	1	40		
1,2-Dichlorobenzene	65	65	39 - 110	1	40		
1,3-Dichlorobenzene	65	63	36 - 110	3	40		
1,4-Dichlorobenzene	62	61	38 - 110	2	40		
3,3'-Dichlorobenzidine	9	20	10 - 113	80	40	F	F
2,4-Dichlorophenol	85	75	46 - 115	12	40		
2,6-Dichlorophenol	90	82	46 - 130	10	40		
Diethyl phthalate	97	88	51 - 119	10	40		
Dimethoate	68	49	28 - 142	34	40		
7,12-Dimethylbenz(a)anthracene	70	66	39 - 130	6	40		
3,3'-Dimethylbenzidine	0	0	10 - 130	NC	40	F	F
2,4-Dimethylphenol	88	83	36 - 110	5	40		
Dimethyl phthalate	96	87	50 - 116	10	40		
Di-n-butyl phthalate	91	85	49 - 123	7	40		
1,3-Dinitrobenzene	98	102	53 - 136	4	40		
4,6-Dinitro-2-methylphenol	95	89	29 - 167	7	40		
2,4-Dinitrophenol	114	100	10 - 189	13	40		
2,4-Dinitrotoluene	91	91	49 - 128	0	40		
2,6-Dinitrotoluene	92	91	45 - 131	1	40		
Di-n-octyl phthalate	102	94	44 - 134	8	40		
Dinoseb	106	103	50 - 144	3	40		
1,4-Dioxane	38	43	11 - 110	12	40		
Disulfoton	69	67	40 - 130	3	40		
Ethyl methanesulfonate	76	72	32 - 130	5	40		
Ethyl Parathion	83	82	60 - 140	1	40		
Famphur	57	37	10 - 130	42	40		F
Fluoranthene	86	80	50 - 120	7	40		
Fluorene	90	86	50 - 115	5	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149426

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1	Analysis Batch:	680-150416	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-149426	Lab File ID:	g5587.d
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Date Analyzed:	10/12/2009 1358			Final Weight/Volume:	1 mL
Date Prepared:	10/01/2009 1512			Injection Volume:	

MSD Lab Sample ID:	680-51170-1	Analysis Batch:	680-150416	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-149426	Lab File ID:	g5588.d
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Date Analyzed:	10/12/2009 1422			Final Weight/Volume:	1 mL
Date Prepared:	10/01/2009 1512			Injection Volume:	

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Hexachlorobenzene	81	78	48 - 119	4	40		
Hexachlorobutadiene	73	68	40 - 110	7	40		
Hexachlorocyclopentadiene	48	49	10 - 110	1	40		
Hexachloroethane	63	62	33 - 110	2	40		
Hexachlorophene	0	0	10 - 130	NC	40	F	F
Hexachloropropene	0	31	10 - 130	NC	40	F	
Indeno[1,2,3-cd]pyrene	83	73	40 - 126	13	40		
Isophorone	76	75	50 - 111	2	40		
Isosafrole	97	91	37 - 130	6	40		
Methapyrilene	0	0	10 - 130	NC	40	F	F
3-Methylcholanthrene	81	78	62 - 130	3	40		
Methyl methanesulfonate	15	12	10 - 130	19	40		
2-Methylnaphthalene	82	79	46 - 110	4	40		
Methyl parathion	70	59	51 - 146	16	40		
2-Methylphenol	87	78	46 - 110	10	40		
3 & 4 Methylphenol	95	135	43 - 110	34	40		F
Naphthalene	74	70	41 - 110	5	40		
1,4-Naphthoquinone	10	7	10 - 130	39	40		F
1-Naphthylamine	7	5	10 - 130	41	40	F	F
2-Naphthylamine	7	24	10 - 130	114	40	F	F
2-Nitroaniline	83	87	45 - 122	5	40		
3-Nitroaniline	72	79	30 - 116	10	40		
4-Nitroaniline	84	90	36 - 125	7	40		
Nitrobenzene	76	77	46 - 110	0	40		
2-Nitrophenol	83	77	42 - 120	7	40		
4-Nitrophenol	104	90	30 - 122	14	40		
4-Nitroquinoline-1-oxide	17	19	10 - 151	9	40		
N-Nitro-o-toluidine	77	79	45 - 130	3	40		
N-Nitrosodiethylamine	75	79	48 - 130	5	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149426

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5587.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1358		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5588.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1422		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
N-Nitrosodimethylamine	72	69	33 - 110	4	40		
N-Nitrosodi-n-butylamine	82	79	41 - 130	4	40		
N-Nitrosodi-n-propylamine	95	91	45 - 112	5	40		
N-Nitrosodiphenylamine	91	86	47 - 119	6	40		
N-Nitrosomethylethylamine	90	90	47 - 130	0	40		
N-Nitrosomorpholine	82	82	35 - 130	0	40		
N-Nitrosopiperidine	0	85	53 - 130	NC	40	F	
N-Nitrosopyrrolidine	74	76	50 - 130	3	40		
o,o',o"-Triethylphosphorothioate	91	91	23 - 162	0	40		
p-Dimethylamino azobenzene	76	73	29 - 169	5	40		
Pentachlorobenzene	96	99	52 - 130	3	40		
Pentachloronitrobenzene	95	96	52 - 130	1	40		
Pentachlorophenol	107	65	37 - 132	48	40		F
Phenacetin	83	95	62 - 130	14	40		
Phenanthrene	90	82	52 - 117	9	40		
Phenol	86	4	39 - 110	182	40		F
Phorate	111	109	29 - 181	2	40		
2-Picoline	1	58	10 - 130	192	40	F	F
p-Phenylene diamine	0	0	10 - 130	NC	40	F	F
Pronamide	99	99	64 - 134	1	40		
Pyrene	84	77	52 - 125	8	40		
Pyridine	0	44	10 - 110	NC	40	F	
Safrole, Total	89	88	39 - 130	0	40		
Sulfotepp	69	70	44 - 130	1	40		
1,2,4,5-Tetrachlorobenzene	85	86	41 - 130	1	40		
2,3,4,6-Tetrachlorophenol	100	57	38 - 130	55	40		F
Thionazin	76	73	48 - 135	4	40		
2-Toluidine	0	49	27 - 130	NC	40	F	
1,2,4-Trichlorobenzene	71	69	41 - 110	3	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149426

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5587.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1358		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-150416	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-149426	Lab File ID: g5588.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	10/12/2009 1422		Final Weight/Volume: 1 mL
Date Prepared:	10/01/2009 1512		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4,5-Trichlorophenol	93	72	47 - 122	25	40		
2,4,6-Trichlorophenol	93	80	46 - 120	15	40		
1,3,5-Trinitrobenzene	120	109	10 - 200	10	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	106	81	40 - 139
2-Fluorobiphenyl	83	83	50 - 113
2-Fluorophenol	84	74	36 - 110
Terphenyl-d14	42	27	10 - 121
Phenol-d5	83	72	38 - 116
Nitrobenzene-d5	82	81	45 - 112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-150728

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-150728/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1157
Date Prepared: 10/16/2009 1358

Analysis Batch: 680-151231
Prep Batch: 680-150728
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5630.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
Acenaphthene	<10		10
Acenaphthylene	<10		10
Acetophenone	<10		10
2-Acetylaminofluorene	<10		10
alpha,alpha-Dimethyl phenethylamine	<2000		2000
4-Aminobiphenyl	<10		10
Aniline	<20		20
Anthracene	<10		10
Aramite, Total	<10		10
Benzo[a]anthracene	<10		10
Benzo[a]pyrene	<10		10
Benzo[b]fluoranthene	<10		10
Benzo[g,h,i]perylene	<10		10
Benzo[k]fluoranthene	<10		10
Benzyl alcohol	<10		10
1,1'-Biphenyl	<10		10
Bis(2-chloroethoxy)methane	<10		10
Bis(2-chloroethyl)ether	<10		10
bis(chloroisopropyl) ether	<10		10
Bis(2-ethylhexyl) phthalate	<10		10
4-Bromophenyl phenyl ether	<10		10
Butyl benzyl phthalate	<10		10
4-Chloroaniline	<20		20
4-Chloro-3-methylphenol	<10		10
2-Chloronaphthalene	<10		10
2-Chlorophenol	<10		10
4-Chlorophenyl phenyl ether	<10		10
Chrysene	<10		10
Diallate	<10		10
Dibenz(a,h)anthracene	<10		10
Dibenzofuran	<10		10
1,2-Dichlorobenzene	<10		10
1,3-Dichlorobenzene	<10		10
1,4-Dichlorobenzene	<10		10
3,3'-Dichlorobenzidine	<20		20
2,4-Dichlorophenol	<10		10
2,6-Dichlorophenol	<10		10
Diethyl phthalate	<10		10
Dimethoate	<10		10
7,12-Dimethylbenz(a)anthracene	<10		10
3,3'-Dimethylbenzidine	<20		20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-150728

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-150728/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1157
Date Prepared: 10/16/2009 1358

Analysis Batch: 680-151231
Prep Batch: 680-150728
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5630.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
2,4-Dimethylphenol	<10		10
Dimethyl phthalate	<10		10
Di-n-butyl phthalate	<10		10
1,3-Dinitrobenzene	<10		10
4,6-Dinitro-2-methylphenol	<50		50
2,4-Dinitrophenol	<50		50
2,4-Dinitrotoluene	<10		10
2,6-Dinitrotoluene	<10		10
Di-n-octyl phthalate	<10		10
Dinoseb	<10		10
1,4-Dioxane	<10		10
Disulfoton	<10		10
Ethyl methanesulfonate	<10		10
Ethyl Parathion	<10		10
Famphur	<10		10
Fluoranthene	<10		10
Fluorene	<10		10
Hexachlorobenzene	<10		10
Hexachlorobutadiene	<10		10
Hexachlorocyclopentadiene	<10		10
Hexachloroethane	<10		10
Hexachlorophene	<5000		5000
Hexachloropropene	<10		10
Indeno[1,2,3-cd]pyrene	<10		10
Isophorone	<10		10
Isosafrole	<10		10
Methapyrilene	<2000		2000
3-Methylcholanthrene	<10		10
Methyl methanesulfonate	<10		10
2-Methylnaphthalene	<10		10
Methyl parathion	<10		10
2-Methylphenol	<10		10
3 & 4 Methylphenol	<10		10
Naphthalene	<10		10
1,4-Naphthoquinone	<10		10
1-Naphthylamine	<10		10
2-Naphthylamine	<10		10
2-Nitroaniline	<50		50
3-Nitroaniline	<50		50
4-Nitroaniline	<50		50
Nitrobenzene	<10		10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-150728

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-150728/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1157
Date Prepared: 10/16/2009 1358

Analysis Batch: 680-151231
Prep Batch: 680-150728
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5630.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
2-Nitrophenol	<10		10
4-Nitrophenol	<50		50
4-Nitroquinoline-1-oxide	<20		20
N-Nitro-o-toluidine	<10		10
N-Nitrosodiethylamine	<10		10
N-Nitrosodimethylamine	<10		10
N-Nitrosodi-n-butylamine	<10		10
N-Nitrosodi-n-propylamine	<10		10
N-Nitrosodiphenylamine	<10		10
N-Nitrosomethylethylamine	<10		10
N-Nitrosomorpholine	<10		10
N-Nitrosopiperidine	<10		10
N-Nitrosopyrrolidine	<10		10
o,o',o''-Triethylphosphorothioate	<10		10
p-Dimethylamino azobenzene	<10		10
Pentachlorobenzene	<10		10
Pentachloronitrobenzene	<10		10
Pentachlorophenol	<50		50
Phenacetin	<10		10
Phenanthrene	<10		10
Phenol	<10		10
Phorate	<10		10
2-Picoline	<10		10
p-Phenylene diamine	<2000		2000
Pronamide	<10		10
Pyrene	<10		10
Pyridine	<50		50
Safrole, Total	<10		10
Sulfotepp	<10		10
1,2,4,5-Tetrachlorobenzene	<10		10
2,3,4,6-Tetrachlorophenol	<10		10
Thionazin	<10		10
2-Toluidine	<10		10
1,2,4-Trichlorobenzene	<10		10
2,4,5-Trichlorophenol	<10		10
2,4,6-Trichlorophenol	<10		10
1,3,5-Trinitrobenzene	<10		10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	72	40 - 139
2-Fluorobiphenyl	72	50 - 113

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	70	36 - 110
Terphenyl-d14	77	10 - 121
Phenol-d5	71	38 - 116
Nitrobenzene-d5	74	45 - 112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-150728

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-150728/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1221
Date Prepared: 10/16/2009 1358

Analysis Batch: 680-151231
Prep Batch: 680-150728
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5631.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	100	73.9	74	45 - 117	
Acenaphthylene	100	81.5	82	51 - 112	
Acetophenone	100	72.4	72	25 - 110	
2-Acetylaminofluorene	100	86.0	86	69 - 123	
alpha,alpha-Dimethyl phenethylamine	500	<2000	21	10 - 158	
4-Aminobiphenyl	100	27.9	28	10 - 130	
Aniline	100	68.2	68	10 - 114	
Anthracene	100	83.3	83	52 - 116	
Aramite, Total	100	73.3	73	10 - 150	
Benzo[a]anthracene	100	84.4	84	49 - 124	
Benzo[a]pyrene	100	96.8	97	48 - 120	
Benzo[b]fluoranthene	100	91.4	91	46 - 126	
Benzo[g,h,i]perylene	100	85.3	85	51 - 117	
Benzo[k]fluoranthene	100	83.8	84	47 - 126	
Benzyl alcohol	100	77.9	78	34 - 113	
1,1'-Biphenyl	100	75.7	76	47 - 112	
Bis(2-chloroethoxy)methane	100	106	106	50 - 112	
Bis(2-chloroethyl)ether	100	74.7	75	43 - 110	
bis(chloroisopropyl) ether	100	75.9	76	42 - 110	
Bis(2-ethylhexyl) phthalate	100	89.1	89	47 - 134	
4-Bromophenyl phenyl ether	100	83.2	83	42 - 110	
Butyl benzyl phthalate	100	92.4	92	52 - 135	
4-Chloroaniline	100	75.5	75	10 - 110	
4-Chloro-3-methylphenol	100	78.8	79	46 - 118	
2-Chloronaphthalene	100	82.4	82	47 - 110	
2-Chlorophenol	100	71.9	72	47 - 110	
4-Chlorophenyl phenyl ether	100	82.2	82	46 - 114	
Chrysene	100	84.7	85	51 - 123	
Diallate	100	99.9	100	36 - 145	
Dibenz(a,h)anthracene	100	83.7	84	46 - 124	
Dibenzofuran	100	78.5	78	50 - 112	
1,2-Dichlorobenzene	100	61.4	61	39 - 110	
1,3-Dichlorobenzene	100	59.7	60	36 - 110	
1,4-Dichlorobenzene	100	60.8	61	38 - 110	
3,3'-Dichlorobenzidine	100	72.9	73	10 - 113	
2,4-Dichlorophenol	100	73.6	74	46 - 115	
2,6-Dichlorophenol	100	82.2	82	46 - 130	
Diethyl phthalate	100	83.5	83	51 - 119	
Dimethoate	100	63.3	63	28 - 142	
7,12-Dimethylbenz(a)anthracene	100	72.3	72	39 - 130	
3,3'-Dimethylbenzidine	100	30.6	31	10 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-150728

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-150728/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1221
Date Prepared: 10/16/2009 1358

Analysis Batch: 680-151231
Prep Batch: 680-150728
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5631.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-Dimethylphenol	200	166	83	36 - 110	
Dimethyl phthalate	100	85.9	86	50 - 116	
Di-n-butyl phthalate	100	86.9	87	49 - 123	
1,3-Dinitrobenzene	100	91.3	91	53 - 136	
4,6-Dinitro-2-methylphenol	100	86.2	86	29 - 167	
2,4-Dinitrophenol	100	96.6	97	10 - 189	
2,4-Dinitrotoluene	100	80.5	81	49 - 128	
2,6-Dinitrotoluene	100	81.1	81	45 - 131	
Di-n-octyl phthalate	100	93.5	94	44 - 134	
Dinoseb	100	79.6	80	50 - 144	
1,4-Dioxane	100	43.4	43	11 - 110	
Disulfoton	100	80.8	81	40 - 130	
Ethyl methanesulfonate	100	71.0	71	32 - 130	
Ethyl Parathion	100	79.6	80	60 - 140	
Famphur	100	<10	2	10 - 130	*
Fluoranthene	100	82.4	82	50 - 120	
Fluorene	100	81.2	81	50 - 115	
Hexachlorobenzene	100	74.6	75	48 - 119	
Hexachlorobutadiene	100	65.6	66	40 - 110	
Hexachlorocyclopentadiene	100	45.1	45	10 - 110	
Hexachloroethane	100	55.6	56	33 - 110	
Hexachlorophene	500	<5000	70	10 - 130	
Hexachloropropene	100	27.3	27	10 - 130	
Indeno[1,2,3-cd]pyrene	100	82.9	83	40 - 126	
Isophorone	100	74.1	74	50 - 111	
Isosafrole	100	82.8	83	37 - 130	
Methapyrilene	100	<2000	42	10 - 130	
3-Methylcholanthrene	100	79.5	79	62 - 130	
Methyl methanesulfonate	100	<10	9	10 - 130	*
2-Methylnaphthalene	100	71.4	71	46 - 110	
Methyl parathion	100	71.1	71	51 - 146	
2-Methylphenol	100	76.2	76	46 - 110	
3 & 4 Methylphenol	100	78.2	78	43 - 110	
Naphthalene	100	72.9	73	41 - 110	
1,4-Naphthoquinone	100	<10	7	10 - 130	*
1-Naphthylamine	100	<10	2	10 - 130	*
2-Naphthylamine	100	38.9	39	10 - 130	
2-Nitroaniline	100	79.3	79	45 - 122	
3-Nitroaniline	100	73.2	73	30 - 116	
4-Nitroaniline	100	72.2	72	36 - 125	
Nitrobenzene	100	73.5	74	46 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-150728

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-150728/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1221
Date Prepared: 10/16/2009 1358

Analysis Batch: 680-151231
Prep Batch: 680-150728
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5631.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Nitrophenol	100	74.4	74	42 - 120	
4-Nitrophenol	100	71.6	72	30 - 122	
4-Nitroquinoline-1-oxide	100	61.7	62	10 - 151	
N-Nitro-o-toluidine	100	77.9	78	45 - 130	
N-Nitrosodiethylamine	100	80.7	81	48 - 130	
N-Nitrosodimethylamine	100	64.3	64	33 - 110	
N-Nitrosodi-n-butylamine	100	103	103	41 - 130	
N-Nitrosodi-n-propylamine	100	84.5	85	45 - 112	
N-Nitrosodiphenylamine	100	88.7	89	47 - 119	
N-Nitrosomethylethylamine	100	95.5	96	47 - 130	
N-Nitrosomorpholine	100	89.0	89	35 - 130	
N-Nitrosopiperidine	100	86.8	87	53 - 130	
N-Nitrosopyrrolidine	100	86.2	86	50 - 130	
o,o',o''-Triethylphosphorothioate	100	145	145	23 - 162	
p-Dimethylamino azobenzene	100	85.5	85	29 - 169	
Pentachlorobenzene	100	81.3	81	52 - 130	
Pentachloronitrobenzene	100	83.4	83	52 - 130	
Pentachlorophenol	100	86.4	86	37 - 132	
Phenacetin	100	82.1	82	62 - 130	
Phenanthrene	100	83.5	84	52 - 117	
Phenol	100	71.8	72	39 - 110	
Phorate	100	70.0	70	29 - 181	
2-Picoline	100	64.8	65	10 - 130	
p-Phenylene diamine	500	<2000	15	10 - 130	
Pronamide	100	89.9	90	64 - 134	
Pyrene	100	84.9	85	52 - 125	
Pyridine	100	<50	49	10 - 110	
Safrole, Total	100	81.3	81	39 - 130	
Sulfotepp	100	79.5	80	44 - 130	
1,2,4,5-Tetrachlorobenzene	100	74.8	75	41 - 130	
2,3,4,6-Tetrachlorophenol	100	79.2	79	38 - 130	
Thionazin	100	83.0	83	48 - 135	
2-Toluidine	100	59.0	59	27 - 130	
1,2,4-Trichlorobenzene	100	62.4	62	41 - 110	
2,4,5-Trichlorophenol	100	82.3	82	47 - 122	
2,4,6-Trichlorophenol	100	77.1	77	46 - 120	
1,3,5-Trinitrobenzene	100	89.4	89	10 - 200	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	75	40 - 139
2-Fluorobiphenyl	78	50 - 113

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	68	36 - 110
Terphenyl-d14	77	10 - 121
Phenol-d5	71	38 - 116
Nitrobenzene-d5	74	45 - 112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-150728

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1RE	Analysis Batch:	680-151231	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-150728	Lab File ID:	g5654.d
Dilution:	1.0	Run Type:	RE	Initial Weight/Volume:	1060 mL
Date Analyzed:	10/20/2009 2149			Final Weight/Volume:	1 mL
Date Prepared:	10/16/2009 1358			Injection Volume:	

MSD Lab Sample ID:	680-51170-1RE	Analysis Batch:	680-151289	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-150728	Lab File ID:	g5666.d
Dilution:	1.0	Run Type:	RE	Initial Weight/Volume:	1060 mL
Date Analyzed:	10/21/2009 1922			Final Weight/Volume:	1 mL
Date Prepared:	10/16/2009 1358			Injection Volume:	

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	64	70	45 - 117	9	40	H	H
Acenaphthylene	72	75	51 - 112	5	40	H	H
Acetophenone	69	71	25 - 110	3	40	H	H
2-Acetylaminofluorene	88	89	69 - 123	1	40	H	H
alpha,alpha-Dimethyl phenethylamine	61	60	10 - 158	2	40	H E	E H
4-Aminobiphenyl	46	39	10 - 130	15	40	H	H
Aniline	59	56	10 - 114	5	40	H	H
Anthracene	70	75	52 - 116	7	40	H	H
Aramite, Total	77	74	10 - 150	4	40	H	H
Benzo[a]anthracene	68	70	49 - 124	2	40	H	H
Benzo[a]pyrene	77	79	48 - 120	3	40	H	H
Benzo[b]fluoranthene	71	70	46 - 126	1	40	H	H
Benzo[g,h,i]perylene	64	65	51 - 117	2	40	H	H
Benzo[k]fluoranthene	62	68	47 - 126	10	40	H	H
Benzyl alcohol	67	71	34 - 113	5	40	H	H
1,1'-Biphenyl	68	71	47 - 112	5	40	H	H
Bis(2-chloroethoxy)methane	101	103	50 - 112	2	40	H	H
Bis(2-chloroethyl)ether	75	74	43 - 110	2	40	H	H
bis(chloroisopropyl) ether	80	79	42 - 110	0	40	H	H
Bis(2-ethylhexyl) phthalate	68	72	47 - 134	6	40	H	H
4-Bromophenyl phenyl ether	71	77	42 - 110	9	40	H	H
Butyl benzyl phthalate	74	78	52 - 135	6	40	H	H
4-Chloroaniline	57	56	10 - 110	2	40	H	H
4-Chloro-3-methylphenol	68	75	46 - 118	9	40	H	H
2-Chloronaphthalene	74	79	47 - 110	6	40	H	H
2-Chlorophenol	68	68	47 - 110	0	40	H	H
4-Chlorophenyl phenyl ether	74	77	46 - 114	3	40	H	H
Chrysene	67	70	51 - 123	4	40	H	H
Diallate	90	95	36 - 145	6	40	H	H

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-150728

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1RE	Analysis Batch: 680-151231	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-150728	Lab File ID: g5654.d
Dilution:	1.0	Run Type: RE	Initial Weight/Volume: 1060 mL
Date Analyzed:	10/20/2009 2149		Final Weight/Volume: 1 mL
Date Prepared:	10/16/2009 1358		Injection Volume:

MSD Lab Sample ID:	680-51170-1RE	Analysis Batch: 680-151289	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-150728	Lab File ID: g5666.d
Dilution:	1.0	Run Type: RE	Initial Weight/Volume: 1060 mL
Date Analyzed:	10/21/2009 1922		Final Weight/Volume: 1 mL
Date Prepared:	10/16/2009 1358		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dibenz(a,h)anthracene	65	67	46 - 124	2	40	H	H
Dibenzofuran	70	76	50 - 112	7	40	H	H
1,2-Dichlorobenzene	59	59	39 - 110	0	40	H	H
1,3-Dichlorobenzene	56	57	36 - 110	1	40	H	H
1,4-Dichlorobenzene	59	58	38 - 110	1	40	H	H
3,3'-Dichlorobenzidine	49	32	10 - 113	42	40	H	H F
2,4-Dichlorophenol	48	72	46 - 115	39	40	H	H
2,6-Dichlorophenol	56	79	46 - 130	34	40	H	H
Diethyl phthalate	75	80	51 - 119	5	40	H	H
Dimethoate	54	60	28 - 142	11	40	H	H
7,12-Dimethylbenz(a)anthracene	56	58	39 - 130	4	40	H	H
3,3'-Dimethylbenzidine	7	1	10 - 130	145	40	H F	H F
2,4-Dimethylphenol	75	77	36 - 110	3	40	H	H
Dimethyl phthalate	76	81	50 - 116	6	40	H	H
Di-n-butyl phthalate	73	76	49 - 123	4	40	H	H
1,3-Dinitrobenzene	86	91	53 - 136	5	40	H	H
4,6-Dinitro-2-methylphenol	73	78	29 - 167	7	40	H	H
2,4-Dinitrophenol	76	81	10 - 189	6	40	H	H
2,4-Dinitrotoluene	73	78	49 - 128	7	40	H	H
2,6-Dinitrotoluene	72	77	45 - 131	7	40	H	H
Di-n-octyl phthalate	74	77	44 - 134	4	40	H	H
Dinoseb	72	75	50 - 144	4	40	H	H
1,4-Dioxane	59	50	11 - 110	17	40	H	H
Disulfoton	71	73	40 - 130	3	40	H	H
Ethyl methanesulfonate	67	74	32 - 130	11	40	H	H
Ethyl Parathion	74	77	60 - 140	3	40	H	H
Famphur	17	50	10 - 130	96	40	H	H F
Fluoranthene	70	72	50 - 120	3	40	H	H
Fluorene	73	77	50 - 115	6	40	H	H

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-150728

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1RE	Analysis Batch:	680-151231	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-150728	Lab File ID:	g5654.d
Dilution:	1.0	Run Type:	RE	Initial Weight/Volume:	1060 mL
Date Analyzed:	10/20/2009 2149			Final Weight/Volume:	1 mL
Date Prepared:	10/16/2009 1358			Injection Volume:	

MSD Lab Sample ID:	680-51170-1RE	Analysis Batch:	680-151289	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-150728	Lab File ID:	g5666.d
Dilution:	1.0	Run Type:	RE	Initial Weight/Volume:	1060 mL
Date Analyzed:	10/21/2009 1922			Final Weight/Volume:	1 mL
Date Prepared:	10/16/2009 1358			Injection Volume:	

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Hexachlorobenzene	63	64	48 - 119	3	40	H	H
Hexachlorobutadiene	62	63	40 - 110	2	40	H	H
Hexachlorocyclopentadiene	44	45	10 - 110	1	40	H	H
Hexachloroethane	54	57	33 - 110	4	40	H	H
Hexachlorophene	0	9	10 - 130	NC	40	H F	H F
Hexachloropropene	26	28	10 - 130	6	40	H	H
Indeno[1,2,3-cd]pyrene	67	66	40 - 126	1	40	H	H
Isophorone	69	72	50 - 111	4	40	H	H
Isosafrole	87	86	37 - 130	2	40	H	H
Methapyrilene	32	0	10 - 130	NC	40	H	H F
3-Methylcholanthrene	67	65	62 - 130	3	40	H	H
Methyl methanesulfonate	8	8	10 - 130	1	40	H F	H F
2-Methylnaphthalene	70	71	46 - 110	2	40	H	H
Methyl parathion	62	73	51 - 146	16	40	H	H
2-Methylphenol	71	70	46 - 110	2	40	H	H
3 & 4 Methylphenol	67	71	43 - 110	6	40	H	H
Naphthalene	89	97	41 - 110	8	40	H	H
1,4-Naphthoquinone	10	14	10 - 130	28	40	H	H
1-Naphthylamine	4	0	10 - 130	NC	40	H F	H F
2-Naphthylamine	32	26	10 - 130	19	40	H	H
2-Nitroaniline	72	79	45 - 122	9	40	H	H
3-Nitroaniline	64	70	30 - 116	9	40	H	H
4-Nitroaniline	70	76	36 - 125	8	40	H	H
Nitrobenzene	69	72	46 - 110	5	40	H	H
2-Nitrophenol	69	72	42 - 120	4	40	H	H
4-Nitrophenol	73	75	30 - 122	4	40	H	H
4-Nitroquinoline-1-oxide	25	54	10 - 151	73	40	H	H F
N-Nitro-o-toluidine	67	71	45 - 130	6	40	H	H
N-Nitrosodiethylamine	82	80	48 - 130	3	40	H	H

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-150728

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1RE	Analysis Batch: 680-151231	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-150728	Lab File ID: g5654.d
Dilution:	1.0	Run Type: RE	Initial Weight/Volume: 1060 mL
Date Analyzed:	10/20/2009 2149		Final Weight/Volume: 1 mL
Date Prepared:	10/16/2009 1358		Injection Volume:

MSD Lab Sample ID:	680-51170-1RE	Analysis Batch: 680-151289	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-150728	Lab File ID: g5666.d
Dilution:	1.0	Run Type: RE	Initial Weight/Volume: 1060 mL
Date Analyzed:	10/21/2009 1922		Final Weight/Volume: 1 mL
Date Prepared:	10/16/2009 1358		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
N-Nitrosodimethylamine	74	74	33 - 110	0	40	H	H
N-Nitrosodi-n-butylamine	108	110	41 - 130	1	40	H	H
N-Nitrosodi-n-propylamine	80	81	45 - 112	1	40	H	H
N-Nitrosodiphenylamine	76	80	47 - 119	5	40	H	H
N-Nitrosomethylethylamine	96	96	47 - 130	1	40	H	H
N-Nitrosomorpholine	94	94	35 - 130	0	40	H	H
N-Nitrosopiperidine	84	86	53 - 130	2	40	H	H
N-Nitrosopyrrolidine	83	86	50 - 130	3	40	H	H
o,o',o''-Triethyiphosphorothioate	140	143	23 - 162	2	40	H	H
p-Dimethylamino azobenzene	72	75	29 - 169	5	40	H	H
Pentachlorobenzene	78	81	52 - 130	3	40	H	H
Pentachloronitrobenzene	80	82	52 - 130	2	40	H	H
Pentachlorophenol	64	65	37 - 132	2	40	H	H
Phenacetin	83	86	62 - 130	3	40	H	H
Phenanthrene	73	77	52 - 117	5	40	H	H
Phenol	78	78	39 - 110	1	40	H	H
Phorate	102	47	29 - 181	74	40	H	H F
2-Picoline	66	63	10 - 130	4	40	H	H
p-Phenylene diamine	0	0	10 - 130	NC	40	H F	H F
Pronamide	84	87	64 - 134	3	40	H	H
Pyrene	69	74	52 - 125	6	40	H	H
Pyridine	52	47	10 - 110	9	40	H	H
Safrole, Total	83	82	39 - 130	0	40	H	H
Sulfotepp	70	75	44 - 130	7	40	H	H
1,2,4,5-Tetrachlorobenzene	72	74	41 - 130	2	40	H	H
2,3,4,6-Tetrachlorophenol	53	59	38 - 130	10	40	H	H
Thionazin	75	81	48 - 135	7	40	H	H
2-Toluidine	52	52	27 - 130	2	40	H	H
1,2,4-Trichlorobenzene	62	63	41 - 110	2	40	H	H

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-150728

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-51170-1RE	Analysis Batch: 680-151231	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-150728	Lab File ID: g5654.d
Dilution:	1.0	Run Type: RE	Initial Weight/Volume: 1060 mL
Date Analyzed:	10/20/2009 2149		Final Weight/Volume: 1 mL
Date Prepared:	10/16/2009 1358		Injection Volume:

MSD Lab Sample ID:	680-51170-1RE	Analysis Batch: 680-151289	Instrument ID: GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch: 680-150728	Lab File ID: g5666.d
Dilution:	1.0	Run Type: RE	Initial Weight/Volume: 1060 mL
Date Analyzed:	10/21/2009 1922		Final Weight/Volume: 1 mL
Date Prepared:	10/16/2009 1358		Injection Volume:

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4,5-Trichlorophenol	56	74	47 - 122	26	40	H	H
2,4,6-Trichlorophenol	57	73	46 - 120	26	40	H	H
1,3,5-Trinitrobenzene	92	95	10 - 200	3	40	H	H

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	67	70	40 - 139
2-Fluorobiphenyl	71	74	50 - 113
2-Fluorophenol	65	65	36 - 110
Terphenyl-d14	30	31	10 - 121
Phenol-d5	66	66	38 - 116
Nitrobenzene-d5	71	74	45 - 112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149433

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-149433/10-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 1707
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149832
Prep Batch: 680-149433
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj05013.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	<1.0		1.0
PCB-1221	<2.0		2.0
PCB-1232	<1.0		1.0
PCB-1242	<1.0		1.0
PCB-1248	<1.0		1.0
PCB-1254	<1.0		1.0
PCB-1260	<1.0		1.0
Chlorobenzilate	<0.50		0.50
Isodrin	<0.050		0.050
Kepone	<1.0		1.0
4,4'-DDD	<0.10		0.10
4,4'-DDE	<0.10		0.10
4,4'-DDT	<0.10		0.10
Aldrin	<0.050		0.050
alpha-BHC	<0.050		0.050
beta-BHC	<0.050		0.050
Chlordane (technical)	<0.50		0.50
delta-BHC	<0.050		0.050
Dieldrin	<0.10		0.10
Endosulfan I	<0.050		0.050
Endosulfan II	<0.10		0.10
Endosulfan sulfate	<0.10		0.10
Endrin	<0.10		0.10
Endrin aldehyde	<0.10		0.10
Endrin ketone	<0.10		0.10
gamma-BHC (Lindane)	<0.050		0.050
Heptachlor	<0.050		0.050
Heptachlor epoxide	<0.050		0.050
Methoxychlor	<0.50		0.50
Toxaphene	<5.0		5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	76	14 - 115
Tetrachloro-m-xylene	82	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Lab Control Sample - Batch: 680-149433

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-149433/11-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 1726
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149832
Prep Batch: 680-149433
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj05014.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.200	0.150	75	37 - 179	
4,4'-DDE	0.200	0.145	72	33 - 142	
4,4'-DDT	0.200	0.194	97	27 - 141	
Aldrin	0.100	0.0799	80	32 - 114	
alpha-BHC	0.100	0.0732	73	29 - 112	
beta-BHC	0.100	0.0866	87	15 - 204	
delta-BHC	0.100	0.0790	79	25 - 123	
Dieldrin	0.200	0.183	92	45 - 137	
Endosulfan I	0.100	0.0846	85	31 - 134	
Endosulfan II	0.200	0.156	78	24 - 144	
Endosulfan sulfate	0.200	0.165	83	44 - 128	
Endrin	0.200	0.167	83	38 - 144	
Endrin aldehyde	0.201	0.182	91	37 - 135	
Endrin ketone	0.200	0.174	87	41 - 155	
gamma-BHC (Lindane)	0.100	0.0794	79	31 - 118	
Heptachlor	0.100	0.0840	84	30 - 133	
Heptachlor epoxide	0.100	0.0896	90	34 - 126	
Methoxychlor	0.201	<0.50	101	10 - 243	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	66	14 - 115
Tetrachloro-m-xylene	77	35 - 120

Lab Control Sample - Batch: 680-149433

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-149433/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 1746
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149832
Prep Batch: 680-149433
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj05015.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	7.61	76	57 - 124	
PCB-1260	10.0	8.09	81	58 - 124	

Surrogate	% Rec	Acceptance Limits

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	84	14 - 115
Tetrachloro-m-xylene	68	35 - 120

Matrix Spike - Batch: 680-149433

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: 680-51170-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/05/2009 2139
Date Prepared: 10/01/2009 1512

Analysis Batch: 680-149832
Prep Batch: 680-149433
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj05027.d
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Heptachlor epoxide	<0.047	0.0952	0.0670	70	34 - 126	
Methoxychlor	<0.47	0.191	<0.48	85	10 - 243	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149433

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-149832	Instrument ID: GC SemiVolatiles - M
Client Matrix:	Water	Prep Batch: 680-149433	Lab File ID: mj05027.d
Dilution:	1.0		Initial Weight/Volume: 1050 mL
Date Analyzed:	10/05/2009 2139		Final Weight/Volume: 10 mL
Date Prepared:	10/01/2009 1512		Injection Volume: 1.0 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-149832	Instrument ID: GC SemiVolatiles - M
Client Matrix:	Water	Prep Batch: 680-149433	Lab File ID: mj05028.d
Dilution:	1.0		Initial Weight/Volume: 1050 mL
Date Analyzed:	10/05/2009 2158		Final Weight/Volume: 10 mL
Date Prepared:	10/01/2009 1512		Injection Volume: 1.0 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	65	66	37 - 179	0	40		
4,4'-DDE	74	77	33 - 142	5	40		
4,4'-DDT	85	87	27 - 141	2	40		
Aldrin	76	89	32 - 114	16	40		
alpha-BHC	78	88	29 - 112	12	40		
beta-BHC	79	91	15 - 204	14	40		
delta-BHC	78	80	25 - 123	2	40		
Dieldrin	74	76	45 - 137	3	40		
Endosulfan I	69	70	31 - 134	3	40		
Endosulfan II	63	63	24 - 144	0	40		
Endosulfan sulfate	66	66	44 - 128	1	40		
Endrin	73	75	38 - 144	3	40		
Endrin aldehyde	62	66	37 - 135	6	40		
Endrin ketone	71	70	41 - 155	1	40		
gamma-BHC (Lindane)	71	80	31 - 118	12	40		
Heptachlor	65	72	30 - 133	10	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	21	17	14 - 115
Tetrachloro-m-xylene	53	65	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149455

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 680-149455/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/02/2009 1923
Date Prepared: 10/01/2009 1232

Analysis Batch: 680-149607
Prep Batch: 680-149455
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	<20		20
Barium	<10		10
Cadmium	<5.0		5.0
Chromium	<10		10
Lead	<10		10
Selenium	<20		20
Silver	<10		10

Lab Control Sample - Batch: 680-149455

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 680-149455/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/02/2009 1928
Date Prepared: 10/01/2009 1232

Analysis Batch: 680-149607
Prep Batch: 680-149455
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	2000	1980	99	75 - 125	
Barium	2000	2090	104	75 - 125	
Cadmium	50.0	50.9	102	75 - 125	
Chromium	200	204	102	75 - 125	
Lead	500	499	100	75 - 125	
Selenium	2000	1970	98	75 - 125	
Silver	50.0	50.5	101	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149455

Method: 6010B
Preparation: 3010A

MS Lab Sample ID:	680-51170-1	Analysis Batch: 680-149607	Instrument ID: ICP/AES - D
Client Matrix:	Water	Prep Batch: 680-149455	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/02/2009 1949		Final Weight/Volume: 50 mL
Date Prepared:	10/01/2009 1232		

MSD Lab Sample ID:	680-51170-1	Analysis Batch: 680-149607	Instrument ID: ICP/AES - D
Client Matrix:	Water	Prep Batch: 680-149455	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/02/2009 1954		Final Weight/Volume: 50 mL
Date Prepared:	10/01/2009 1232		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	98	101	75 - 125	3	20		
Barium	101	105	75 - 125	3	20		
Cadmium	99	102	75 - 125	3	20		
Chromium	99	103	75 - 125	3	20		
Lead	96	100	75 - 125	3	20		
Selenium	97	100	75 - 125	3	20		
Silver	99	103	75 - 125	4	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Ashland Inc.

Job Number: 680-51170-1

Method Blank - Batch: 680-149436

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 680-149436/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/06/2009 1849
Date Prepared: 10/01/2009 1108

Analysis Batch: 680-149950
Prep Batch: 680-149436
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	<0.20		0.20

Lab Control Sample - Batch: 680-149436

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 680-149436/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/06/2009 1852
Date Prepared: 10/01/2009 1108

Analysis Batch: 680-149950
Prep Batch: 680-149436
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.42	97	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-149436

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 680-51170-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/06/2009 1859
Date Prepared: 10/01/2009 1108

Analysis Batch: 680-149950
Prep Batch: 680-149436

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-51170-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/06/2009 1903
Date Prepared: 10/01/2009 1108

Analysis Batch: 680-149950
Prep Batch: 680-149436

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	91	92	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 020301

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Hercules I.B.	HER	MS
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Guilaiq		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Chris Waters	251-342-2220	342-0040
CLIENT NAME	CLIENT E-MAIL	
Eco-Systems (ESI)	Chris.waters@eco-systems inc.com	
CLIENT ADDRESS		
775 N. University Blvd. #270 Mobile, AL 36608		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 5

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOC Trip Blank 8260	6010/7470 RCRA metals-Mercury	8260 VOC	8081A-8082-8081 Pest	8270 SVOC	NUMBER OF CONTAINERS SUBMITTED: VOC Trip Blank	6010/7470 RCRA metals-Mercury	8260 VOC	8081A-8082-8081 Pest	8270 SVOC	REMARKS
								HCl	HNO3	PRESERVATIVES								
9-28-09	16:05	MW-24		X					1	3	2	2						
	16:05	MS		X					1	3	2	2						
	16:05	MSD		X					1	3	2	2						
	17:45	RB		X					1	3	2	2						
9-29-09	0720	MW-20		X					1	3	2	2						
	0823	MW-22		X					1	3	2	2						
	0945	MW-23		X					1	3	2	2						
	NA	Dup		X					1	3	2	2						
	11:42	MW-21		X					1	3	2	2						
	NA	Trip Blank		X				6										3 sets / 1 in 3 coolers

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9-29-09							
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

Note: C.O.C is in cooler w/ 376622 Custody Seal

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George K Cannon	9/30/09	0853	YES ○ NO ○	376622 → 376626	680-51170	3.1/4.5/5.1/5.3/4.8

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-51170-1

Login Number: 51170
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	5 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1, 4.5, 5.1, 5.3, 4.8 C
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	False	
Sample Preservation Verified	True	

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercuries Incorporated
Sample ID: MW-24
File #: 0909350-01

Collected:	9/28/2009	1605	Client
Extracted:	10/05/2009	1030	DGA
Analyzed:	10/17/2009	0439	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			0909350-02 MATRIX SPIKE			0909350-03* MATRIX SPIKE DUPLICATE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	ND			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	ND			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.4	10.00	54	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

*MSD was almost evaporated to dryness leading to low recoveries.
Several samples had interferences leading to high surrogate recoveries

Certified by: Michael S. Bonner, Ph.D
BONNER ANALYTICAL TESTING COMPANY

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercuries Incorporated
Sample ID: RB
File #: 0909350-04

	Date	
Collected:	9/28/2009	1605 Client
Extracted:	10/05/2009	1030 DGA
Analyzed:	10/17/2009	0439 DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

											0909350-02				0909350-03*		
		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE			MATRIX SPIKE DUPLICATE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	ND			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	ND			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.9	10.00	59	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

*MSD was almost evaporated to dryness leading to low recoveries.
Several samples had interferences leading to high surrogate recoveries

Certified by:

Michael S. Bonner, Ph.D
BONNER ANALYTICAL TESTING COMPANY

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercuries Incorporated
Sample ID: MW-20
File #: 0909350-05

	Date		Analyst
Collected:	9/28/2009	1605	Client
Extracted:	10/05/2009	1030	DGA
Analyzed:	10/17/2009	0439	DGA

Sample Type: Water
Extraction Method SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			0909350-02 MATRIX SPIKE			0909350-03* MATRIX SPIKE DUPLICATE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	ND			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	ND			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		4.9	10.00	49	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

*MSD was almost evaporated to dryness leading to low recoveries.
Several samples had interferences leading to high surrogate recoveries

Certified by:

Michael S. Bonner, Ph.D
BONNER ANALYTICAL TESTING COMPANY

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercuries Incorporated
Sample ID: MW-22
File #: 0909350-06

	Date		Analyst
Collected:	9/28/2009	1605	Client
Extracted:	10/05/2009	1030	DGA
Analyzed:	10/17/2009	0239	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			0909350-02 MATRIX SPIKE			0909350-03* MATRIX SPIKE DUPLICATE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	ND			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	ND			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		8.0	10.00	80	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

*MSD was almost evaporated to dryness leading to low recoveries.
Several samples had interferences leading to high surrogate recoveries

Certified by:
Michael S. Bonner, Ph.D
BONNER ANALYTICAL TESTING COMPANY

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercules Incorporated
Sample ID: MW-23
File #: 0909350-07

Collected: 9/28/2009 1605 Client
Extracted: 10/05/2009 1030 DGA
Analyzed: 10/17/2009 0415 DGA
Date Analyst

Sample Type: Water
Extraction Method SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			0909350-02 MATRIX SPIKE			0909350-03* MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery
Dioxenethion	0.400	132			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	17.6			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	20.6			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		25.7	10.00	257	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DICXATHION/ DICXENETHION HPLC ANALYSIS DATA

Client: Hercuries Incorporated
Sample ID: FD
File #: 0909350-08

Collected: 9/28/2009 1605 Client
Extracted: 10/05/2009 1030 DGA
Analyzed: 10/17/2009 0439 DGA
Date Analyst

Sample Type: Water
Extraction Method SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			0909350-02 MATRIX SPIKE			0909350-03* MATRIX SPIKE DUPLICATE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	202			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	21.1			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	19.4			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		26.9	10.00	269	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

*MSD was almost evaporated to dryness leading to low recoveries.
Several samples had interferences leading to high surrogate recoveries

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DICOXATHION/ DICXENETHION HPLC ANALYSIS DATA

Client: **Hercuries Incorporated**
Sample ID: MW-21
File #: 0909350-09

Collected: 9/28/2009 1605 Client
Extracted: 10/05/2009 1030 DGA
Analyzed: 10/17/2009 0215 DGA
Date Analyst

Sample Type: Water
Extraction Method SW846 3510C
Analysis Method: Modified SW846

											0909350-02			0909350-03*		
		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE			MATRIX SPIKE DUPLICATE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	185			ND			8.50	10.0	85	10.91	10.0	109	7.41	10.0	74
Dioxathion (cis)	0.400	4.0			ND			8.33	10.0	83	8.28	10.0	83	5.36	10.0	54
Dioxathion (trans)	0.400	8.6			ND			8.49	10.0	85	6.94	10.0	69	5.68	10.0	57
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		14.5	10.00	145	4.92	10.00	49	6.67	10.00	67	6.19	10.00	62	5.36	10.00	54

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Certified by:
Michael S. Bonner, Ph.D
BONNER ANALYTICAL TESTING COMPANY

BONNER ANALYTICAL TESTING COMPANY

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WWW.BATCO.COM

Testing Your World For a Safer Tomorrow

YOUR COMPANY NAME:	Eco-Systems, Inc.
YOUR COMPANY ADDRESS:	775 N. University Blvd. Suite 270 Mobile, AL 36608
NAME OF PERSON TO CONTACT:	Chris Waters
CONTACT PERSON'S PHONE:	251-342-0700 FAX 251-342-0040
CONTACT PERSON'S EMAIL:	Chris.waters@ecosystemsinc.com

CLIENT PROJECT NO	CLIENT P.O.#	CLIENT PROJECT NUMBER
		Chris Waters/Caleb Dana

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	8260B/8021	NPDES-PPA						NUMBER OF CONTAINERS	PRESERVATION	File ID
1	MW-24	9-28-09	16:05	GW	X							2		BT
2	MS	9-28-09	16:05	GW	X							2		BT
3	MSD	9-28-09	16:05	GW	X							2		BT
4	RB	9-28-09	17:45	GW	X							2		BT
5	MW-20	9-29-09	0720	GW	X							2		BT
6	MW-22	9-29-09	0823	GW	X							2		BT
7	MW-23	9-29-09	0945	GW	X							2		BT
8	Dup FD	9-29-09	NA	GW	X							2		BT
9	MW-21	9-29-09	1142	GW	X									BT
10														BT

LABORATORY USE	
Turn Around Time	
Project Number	0909350

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	9-29-09	15:20	

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	9/30/09	1528	Pam Thompson

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01