



APPENDIX C
LABORATORY ANALYTICAL REPORTS

Bonner Analytical Testing Company



2703 Oak Grove Road, Hattiesburg, MS 39402
 Phone: (601) 264-2854 Fax: (601) 268-7084

CASE NARRATIVE: (Hercules)

Volatiles and Semivolatiles

Samples were received at BATCO on August 11, 12, 13, 14, 28 and September 3, 2003.
 The following lists all samples received and the analysis requested.

Date Received	Hercules ID	Bonner ID	MATRIX	VOLATILES	SEMIVOLS	DIOXATHION
8/11/03	HER GP04-7-8	BT88678	S	X		
8/11/03	HER GP02-GW	BT88679	W	X		X
8/11/03	HER GP04-GW	BT88680	W	X		X
8/12/03	HER-GP08-GW	BT88700	W	X		X
8/12/03	HER GP08-DUP-GW	BT88701	W	X		X
8/12/03	HER GP08-MS-GW	BT88702	W	X		X
8/12/03	HER GP08-MSD-GW	BT88703	W	X		X
8/12/03	HER GP06-GW	BT88704	W	X		X
8/12/03	HER RS-01	BT88705	W	X		X
8/12/03	HER GP05-GW	BT88707	W	X		X
8/12/03	HER GP07-GW	BT88708	W	X		X
8/13/03	HER GP14-GW	BT88739	W	X		X
8/13/03	HER GP09-GW	BT88740	W	X		X
8/13/03	HER GP13-GW	BT88741	W	X		X
8/13/03	HER GP15-GW	BT88742	W	X		X
8/13/03	HER BD01	BT88743	W	X		
8/13/03	HER GP17-GW	BT88744	W	X		X
8/13/03	HER GP09-GW	BT88745	W	X	X	
8/13/03	HER GP10-GW	BT88746	W	X	X	X
8/13/03	HER BD02	BT88747	W	X	X	X
8/13/03	HER GP11-GW	BT88748	W	X		X
8/14/03	HER GP11-GW	BT88794	W		X	
8/14/03	HERGP18-GW	BT88795	W	X		X
8/14/03	HER GP12-GW	BT88796	W	X	X	X

Date Received	Hercules ID	Bonner ID	MATRIX	VOLATILES	SEMIVOLS	DIOXATHION
8/28/03	HER MW01-082803	BT88950	W	X		X
8/28/03	HER MW10-082803	BT88951	W	X		X
8/28/03	HER MW10 MS	BT88952	W	X		X
8/28/03	HER MW10 MSD	BT88953	W	X		X
8/28/03	HER MW04-082803	BT88954	W	X		X
8/28/03	HER MW11-082803	BT88955	W	X		X
8/28/03	HER BD03	BT88956	W	X		X
9/3/03	HER CM00-SW090303	BT89024	W	X		X
9/3/03	HER CM01-SW090903	BT89025	W	X		X
9/3/03	HER CM00 MS/MSD	BT89026	W	X		X
9/3/03	HER CM00-SD090303	BT89027	S	X		X
9/3/03	HER CM01-SD090303	BT89028	S	X		X
9/3/03	HER CM00 MS/MSD	BT89029	S	X		X

Semivolatiles

Samples were extracted on 8/18/03 @ 0800 hrs. This included the five samples, a method blank, a lab control, a matrix spike, and a matrix spike duplicate. Each sample was spiked with a surrogate mix containing six compounds, three acidic at 200 ppm and three base/neutrals at 100 ppm. The lab control, matrix spike, and matrix spike duplicate were spiked with a matrix spike solution containing eleven compounds, ranging in concentration from 100 ppm (B/N) to 150 ppm (acids). The samples were extracted and concentrated according to SW-846 EPA Method 3510C.

A DFTTP tuning standard and a 6 point calibration curve containing 65 target compounds, 6 surrogate compounds, and 6 internal standards were ran on the gas chromatograph (GC) equipped with a mass selective detector (MS). The DFTTP standard, as well as the linearity of the curve, met all QA/QC requirements set in EPA method 8270C.

The samples were analyzed on 8/21/03 and 8/22/03 under the same conditions as the calibration curve. No target compounds were found in any samples sent by Hercules for semivolatile analysis. Surrogate recoveries ranged from 19.04% to 78.04%.

Volatiles

Samples were analyzed for volatile organic compounds (VOCs) utilizing a 5890 Series II Hewlett Packard Gas Chromatograph (GC) and a Perkin-Elmer Ion Trap Detector. These samples were run within the fourteen-day holding time window according to EPA

SW846 Method 8260B All QA/QC criteria were within the limits set in EPA SW846 Method 8260B. The only exception is that the surrogate recoveries were out of range for BT88678 (HER_GP04-78) and BT88679 (HER_GP02-GW) due to matrix affect. The sample dilutions and the surrogate recoveries were within the acceptable range.

A BFB standard was run on the HP-5890 GC to verify that the Ion Trap Detector was tuned and functioning properly. A five point calibration curve was obtained from dilutions of a working standard, 8260 calibration mix, which proved to pass linearity in accordance to EPA Method 8260B. Initial and continuing calibration verifications were acquired, analyzed, and passed during the sequence of the sample run. All Quality Assurance and Control measures were met in accordance to Method 8260B.

Volatile compounds were detected in the following samples.

BT88700	HER-GP08-GW
BT88701	HER-GP08-GW DUP
BT88704	HER-GP06-GW
BT88707	HER-GP05-GW
BT88708	HER-GP07-GW
BT88739	HER-GP14-GW
BT88742	HER-GP15-GW
BT88743	HER-BDO1
BT88748	HER-GP11-GW
BT88796	HER-GP12-GW
BT88678	HER-GP04 -7-8
BT88679	HER-GP02-GW
BT88680	HER-GP04-GW
BT88950	HER-MW01-082803
BT88951	HER-MW10-082803

All remaining samples were non-detect for all target compounds.

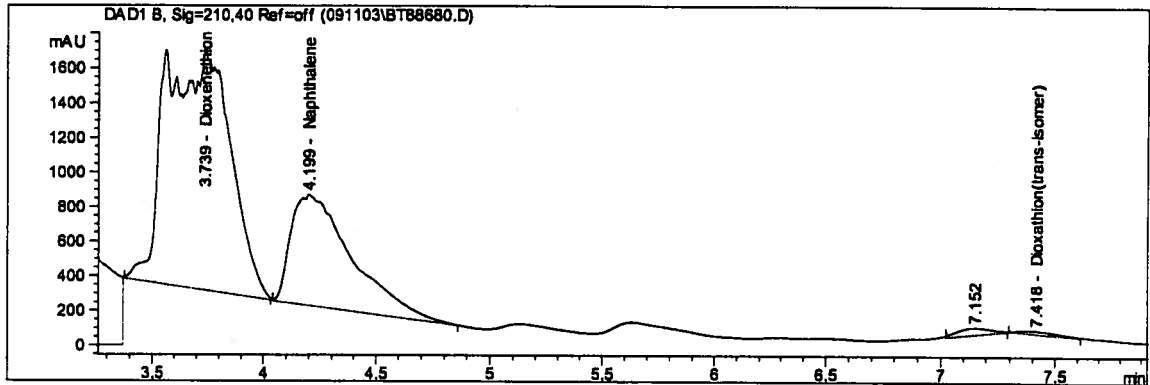
Dioxathion Analysis

A Dioxathion Calibration working standard was prepared from the individual Dioxenethion, Dioxathion (cis), and Dioxathion (trans) isomers obtained from Sigma-Aldrich Chemicals. Dilutions were made from the working standard to obtain an eight-point curve (0.4 to 20 ppm) utilizing a HP-1090 HPLC and HP-Chem software. A Diode-Array Detector, DAD, was used to obtain the data. Table 1 illustrates the retention times, linearity correlation coefficient, and the PQL's.

Table 1-Calibration Data

Dioxathion Isomer	Retention Times @ 210 nm (min)	Calibration of Linearity Correlation Coefficient	Practical Quant Limits for Water (ppb)	Practical Quant Limits for Soils (ppb)
Dioxenethion	3.648	0.9997	2.19	170
Dioxathion (cis)	6.914	0.9974	4.75	134
Dioxathion (trans)	7.462	0.9998	3.04	149

Water samples were extracted on 08/15/03 using EPA SW846 Method 3510C for Separatory Funnel Liquid-Liquid Extraction. Methylene chloride was the extracting solvent and exchanged to acetonitrile at 1-mL final volume. The samples were then analyzed on 09/12/03, using the HP-1090 HPLC under the same method as the calibration. None of the samples indicated the presence of any of the Dioxathion isomers, with the exception of sample HER-GP04-GW. The presence of multiple peaks at the retention time of Dioxenethion, caused by possible interferences, made quantitation of the analyte impossible. The chromatogram is shown below.



The surrogate recoveries ranged from 65.0 to 97.6% with exception to sample HER-BD02 at 42.4% due to loss of extraction solvent and sample HER-GP08-GW Duplicate, which may have been due to interferences in the peak. Samples received on 08/28/03 and 09/03/03 were extracted on 09/03/03, but have not been reported at this time due to instrument malfunction.

Authorized By: Michael S. Bonner
Michael S. Bonner, PhD.



BONNER ANALYTICAL TESTING COMPANY
 2703 Oak Grove Road, Hattiesburg, MS 39402
 Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com
WWW.BATCO.COM

YOUR COMPANY NAME: Hercules
 YOUR COMPANY ADDRESS: 7th St
Hattiesburg, MS
 NAME OF PERSON TO CONTACT: Charles Conroy
 CONTACT PERSON'S PHONE: 601 926 4440 FAX: _____
 CONTACT PERSON'S EMAIL: _____

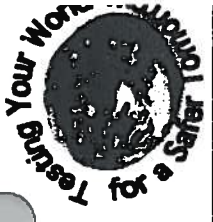
CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER	DATE	TIME	MATRIX
1	HER-MW10-082803	28 AUG 03	"	1215	UBA
2	HER-MW10-082803	"	"	1400	"
3	HER-MW10-MS	"	"	1400	"
4	HER-MW10-MSD	"	"	1400	"
5	HER-MW04-082803	"	"	1545	"
6	HER-MW11-082903	"	"	1545	"
7	HER-BD03				
8					
9					
10					

SAMPLE COLLECTOR/RELINQUISHED BY: Charles Conroy RECEIVED BY: [Signature]
 DATE: 28 AUG 03 TIME: 1820
 METHOD OF SHIPMENT (if any): _____

PARAMETERS FOR ANALYSIS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
VC 8208			Turn Around Time
Dike th			Project Number
			107591
			File ID
			BT 88950
			BT 88951
			BT 88952
			BT 88953
			BT 88954
			BT 88955
			BT 88956
			BT
			BT
			BT

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____
 DATE/TIME: 8-29-03 0830
 RECEIVED FOR BATCO BY: [Signature]
 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

REMARKS: _____



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 Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com
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YOUR COMPANY NAME: Eco-Systems, Inc.
 YOUR COMPANY ADDRESS: 439 KATHERINE Dr. Suite 2A
Jackson, MS. 39232
 NAME OF PERSON TO CONTACT: CHARLES CONEY
 CONTACT PERSON'S PHONE: 601-936-4440 FAX: _____
 CONTACT PERSON'S EMAIL: _____

CLIENT PROJECT NO. _____ CLIENT PROJECT NUMBER _____
 CLIENT P.O.# _____

SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS		PRESERVATION	LABORATORY USE
				NUMBER OF CONTAINERS	Turn Around Time		
1 HER-CM00-SW090303	9-3-03	1430	WT	2	2		BT89024
2 HER-CM01-SW090303	9-3-03	1345	WT	2	2		BT89025
3 HER-CM00-MS/MSD	9-3-03	1430	WT	3	1		BT89026
4 HER-CM00-SD090303	9-3-03	1430	SL	3	1		BT89027
5 HER-CM01-SD090303	9-3-03	1345	SL	3	1		BT89028
6 HER-CM00-MS/MSD	9-3-03	1430	SL	2	1		BT89029
7							BT
8							BT
9							BT
10							BT

SAMPLE COLLECTOR/RELINQUISHED BY: Brian Kethell DATE: 9-3-03 TIME: 1600 RECEIVED BY: Ram Thompson
 METHOD OF SHIPMENT (if Any) _____ RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED FOR BATCO BY: [Signature] DATE/TIME: 9-3-03 1600

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



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YOUR COMPANY NAME: Eco-Systems Inc.
 YOUR COMPANY ADDRESS: 439 Katherine Dr. Suite 2A
Jackson, MS 39232
 NAME OF PERSON TO CONTACT: Charles Conroy
 CONTACT PERSON'S PHONE: 601-209-0148 FAX: _____
 CONTACT PERSON'S EMAIL: _____

CLIENT PROJECT NO. _____ CLIENT P.O.# _____ CLIENT PROJECT NUMBER _____

SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1 HER-GP14-GW	8-13-03	0932	Water
2 HER-GP09-GW	8-13-03	1047	Water
3 HER-GP13-GW	8-13-03	1000	Water
4 HER-GP15-GW	8-12-03	1800	Water
5 B001	-	-	Water
6 HER-GP17-GW - Hold	8-13-03	1100	Water
7			
8			
9			
10			

SAMPLE COLLECTOR/RELINQUISHED BY: Sherry Roberts RECEIVED BY: _____
 DATE: 8-13-03 TIME: 1140 DATE: _____ TIME: _____
 METHOD OF SHIPMENT (If Any) _____ RECEIVED FOR BATCO BY: [Signature]
 DATE: _____ TIME: _____ DATE/TIME: 8-13-03 @ 1200

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.

PARAMETERS FOR ANALYSIS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
8608 Dioxathion	3		Turn Around Time
	2		Project Number
	2		007443
	2		File ID
	2		BT 88739
	2		BT 88740
	2		BT 88741
	2		BT 88742
	2		BT 88743
	2		BT 88744
			BT
			BT
			BT
			BT



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YOUR COMPANY NAME: Eco-Systems, Inc
 YOUR COMPANY ADDRESS: 439 KATHERINE DRIVE, SUITE 2A
JACKSON, MS 39232

NAME OF PERSON TO CONTACT: CHARLES CONEY
 CONTACT PERSON'S PHONE: 601-209-0148 FAX:
 CONTACT PERSON'S EMAIL:

CLIENT PROJECT NO. _____ CLIENT P.O.# _____ CLIENT PROJECT NUMBER _____

SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1 HER-GP05-GW	8-12-03	1423	Water
2 HER-GP07-GW	8-12-03	1620	Water
3			
4			
5			
6			
7			
8			
9			
10			

SAMPLE COLLECTOR/RELINQUISHED BY: Sam Kithell RECEIVED BY: Pam Thompson
 DATE: 8-12-03 TIME: 1710

METHOD OF SHIPMENT (If Any) _____ RELINQUISHED BY: _____

REMARKS: _____

PARAMETERS FOR ANALYSIS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
8200 & Dioxathion			Turn Around Time
			Project Number
			107415
			File ID
			BT 88707
			BT 88708
			BT
			BT
			BT
			BT
			BT
			BT
			BT
			BT
			BT
			BT

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____
 DATE/TIME: 8/12/03
Janice Rawat 1715

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



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WWW.BATCO.COM

YOUR COMPANY NAME: Eco-Systems, Inc.
 YOUR COMPANY ADDRESS: 4390 Katherine Dr. Suite 2A
Jackson, MS, 39232
 NAME OF PERSON TO CONTACT: Charles Conley
 CONTACT PERSON'S PHONE: 601-209-0148 FAX:
 CONTACT PERSON'S EMAIL:

CLIENT PROJECT NO. CLIENT P.O.# CLIENT PROJECT NUMBER

SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1 HER-GP09-GW	8-13-03	1328	Water
2 HER-GP10-GW	8-13-03	1445	Water
3 HER-IB02a			Water
4 HER-GP11-GW	8-13-03	1428	Water
5			
6			
7			
8			
9			
10			

SAMPLE COLLECTOR/RELINQUISHED BY: Kwan Kithell DATE: 8-13-03 TIME: 1635 RECEIVED BY: Ron Thompson

METHOD OF SHIPMENT (if Any) RELINQUISHED BY:

REMARKS: For HER-GP11-GW 1 of the 2 Liter Ambers
has only 1/4 volume.

PARAMETERS FOR ANALYSIS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
8260B Dioxathion 8270	2 2 2 2		Turn Around Time Project Number 007444 File ID
			BT 88745
			BT 88746
			BT 88747
			BT 88748
			BT
			BT
			BT
			BT
			BT
			BT

RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE/TIME: 8/13/03
Janice Rowland @ 1635

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

Extracted



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YOUR COMPANY NAME: Eco-Systems, Inc.
 YOUR COMPANY ADDRESS: 4391 Katherine Dr. Suite 2A
Jackson, MS. 39232

NAME OF PERSON TO CONTACT: Charles Conley
 CONTACT PERSON'S PHONE: 601-209-0148 FAX:
 CONTACT PERSON'S EMAIL:

CLIENT PROJECT NO. _____ CLIENT P.O.# _____ CLIENT PROJECT NUMBER _____

SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1 HER-GP09-GW	8-13-03	1328	Water
2 HER-GP10-GW	8-13-03	1445	Water
3 HER-BDOa			Water
4 HER-GP11-GW	8-13-03	1428	Water
5			
6			
7 MB, LC, MS, MSD			
8			
9			
10			

SAMPLE COLLECTOR/RELINQUISHED BY: Kwan Kithell DATE: 8-13-03 TIME: 1635 RECEIVED BY: Ram Thompson

METHOD OF SHIPMENT (If Any) _____ RELINQUISHED BY: _____

REMARKS: For HER-GP11-GW 1 of the 2 Water Ambers
has only 1/4 volume.

PARAMETERS FOR ANALYSIS	DATE	TIME	RECEIVED FOR BATCO BY:	DATE	TIME	RECEIVED BY:
82608						
Dioxathion						
8270						
2						
2						
2						
2						
BT						
BT						
BT						
BT						
BT						
BT						
BT						
BT						

LABORATORY USE
 Turn Around Time _____
 Project Number 007444
 File ID _____

REVISION NO 1.2
 03/22/01

DATE/TIME: 8/13/03
@ 1635

RECEIVED FOR BATCO BY: Janece Rowland

REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS (Signature)
 IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF \$50.00 PER SAMPLE WILL BE ASSESSED.

Expanded



BONNER ANALYTICAL TESTING COMPANY

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YOUR COMPANY NAME: Eco-Systems, Inc.
 YOUR COMPANY ADDRESS: 439 Katherine Dr.
Jackson, MS 39232

NAME OF PERSON TO CONTACT: Charles Concy
 CONTACT PERSON'S PHONE: 601 936 4440 FAX: 601 936 4463
 CONTACT PERSON'S EMAIL: charles.concy@eco-systems.com

CLIENT PROJECT NO. Hercules CLIENT PROJECT NUMBER _____
 CLIENT P.O.# _____

SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1 HER-GP11-GW	14 AUG 03	1145	Water
2 HER-GP18-GW	14 AUG 03	1315	"
3 HER-GP12-GW	14 AUG 03	1440	"
4			
5			
6			
7			
8			
9			
10			

SAMPLE COLLECTOR/RELINQUISHED BY: Charles W. Concy RECEIVED BY: Ram Thompson
 METHOD OF SHIPMENT (if Any) _____

RELINQUISHED BY: _____
 DATE: 11 AUG 03 TIME: 1600

PARAMETERS FOR ANALYSIS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
VOC 510C Diphenyl ✓ ✓ ✓			Turn Around Time <u>Standard</u> Project Number <u>007473</u> File ID <u>BT 88794</u> <u>BT 88795</u> <u>BT 88796</u> <u>BT</u> <u>BT</u> <u>BT</u> <u>BT</u> <u>BT</u> <u>BT</u> <u>BT</u>

RECEIVED FOR BATCO BY: James Krawal DATE/TIME: 08/14/03 1600

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 12
03/22/01

BONNER ANALYTICAL TESTING COMPANY

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YOUR COMPANY NAME: ECO-Systems, Inc.
 YOUR COMPANY ADDRESS: 439 Katherine Dr. Jackson, MS 39212
 NAME OF PERSON TO CONTACT: Charles Concy
 CONTACT PERSON'S PHONE: 601 936 4440 FAX: 601 936 4463
 CONTACT PERSON'S EMAIL: charles.concy@eco-systems.com

CLIENT PROJECT NO. Hercules CLIENT PO# _____ CLIENT PROJECT NUMBER _____

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1	HER-GP11-GW	14 AUG 03	1145	Water
2	HER-GP18-GW	14 AUG 03	1315	"
3	HER-GP12-GW	14 AUG 03	1440	"
4				
5				
6				
7				
8				
9				
10				

SAMPLE COLLECTOR/RELINQUISHED BY: Charles V. Concy DATE: 14 AUG 03 TIME: 1600 RECEIVED BY: Ron Thompson

METHOD OF SHIPMENT (If Any) _____ RELINQUISHED BY: _____

REMARKS: _____

LABORATORY USE	PARAMETERS FOR ANALYSIS		PRESERVATION	RECEIVED BY:	RECEIVED BY:
	NUMBER OF CONTAINERS	DATE			
Turn Around Time	100				
Project Number	500				
File ID	100				
	BT	✓			BT
	BT	✓			BT
	BT	✓			BT
	BT				BT
	BT				BT
	BT				BT
	BT				BT
	BT				BT
	BT				BT

DATE/TIME: 08/14/03
1600

REVISION NO 1.2
03/22/01

REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS
 IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF \$30.00 PER SAMPLE WILL BE ASSESSED.



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 Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

YOUR COMPANY NAME: Hercules
 YOUR COMPANY ADDRESS: 7th St Hattiesburg, MS
 NAME OF PERSON TO CONTACT: Charles Conroy
 CONTACT PERSON'S PHONE: 601 926 4440 FAX: _____
 CONTACT PERSON'S EMAIL: _____

CLIENT PROJECT NO.	CLIENT P.O.#	SAMPLE DESCRIPTION	CLIENT PROJECT NUMBER		
			DATE	TIME	MATRIX
1	HER-MW10-082803	28 ANCO3	1215	1400	Wate
2	HER-MW10-082803	"	"	1400	"
3	HER-MW10-MS	"	"	1400	"
4	HER-MW10-MSD	"	"	1400	"
5	HER-MW104-082803	"	"	1545	"
6	HER-MW11-082803	"	"	1545	"
7	HER-BD03	"	"	"	"
8					
9					
10					

SAMPLE COLLECTOR/RELINQUISHED BY: Charles Conroy RECEIVED BY: [Signature]
 DATE: 2 AUG 03 TIME: 1820
 METHOD OF SHIPMENT (if Any): _____ RELINQUISHED BY: _____

LABORATORY USE	PRESERVATION	NUMBER OF CONTAINERS	PARAMETERS FOR ANALYSIS				DATE	TIME	RECEIVED BY:
			Turn Around Time	Project Number	File ID	BT			
Standard			107591						
									BT
									BT
									BT
									BT
									BT
									BT
									BT
									BT
									BT

RECEIVED FOR BATCO BY: [Signature] DATE/TIME: 8-29-03 0830
 REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINERS
 IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF \$30.00 PER SAMPLE WILL BE ASSESSED.
 REVISION NO 12 03/22/01



BONNER ANALYTICAL TESTING COMPANY

2703 Oak Grove Road, Hattiesburg, MS 39402
Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

YOUR COMPANY NAME: Eco-Systems, Inc
 YOUR COMPANY ADDRESS: 439 KATHERINE DRIVE, Suite 2A
JACKSON, Ms 39232

NAME OF PERSON TO CONTACT: CHARLES CONEY
 CONTACT PERSON'S PHONE: 601-209-0148 FAX: _____
 CONTACT PERSON'S EMAIL: CHARLES.CONEY@ECO-SYSTEMS,INC.COM

CLIENT PROJECT NO. _____ CLIENT PROJECT NUMBER _____

SAMPLE DESCRIPTION	DATE	TIME	MATRIX
1 HER-GP04 - 7-8	8-11-03	1115	soil
2 HER-GP02 - GW	8-11-03	1350	Water
3 HER-GP04-GW	8-11-03	1540	Water
4			
5			
6			
7			
8			
9			
10			

SAMPLE COLLECTOR/RELINQUISHED BY: Susan Kettner DATE: 8-11-03 TIME: 1655 RECEIVED BY: Ram Thompson

METHOD OF SHIPMENT (if Any): _____ RELINQUISHED BY: _____

REMARKS: _____

PARAMETERS FOR ANALYSIS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
8260 B			Turn Around Time
Dioxathion			Project Number
1			107403
3			File ID
2			BT 88678
3			BT 88679
2			BT 88680
↓			BT
RUSH			BT
			BT
			BT
			BT
			BT
			BT
			BT

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____

DATE: _____ TIME: _____ RECEIVED FOR BATCO BY: Janie DATE/TIME: 8-11-03 1700

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.

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules Collected: 08/28/03 12:15 Client Water
 Location: HER_MW01-082803 Received: 08/29/03 8:30 LR
 File #: BT88950 Analyzed: 09/08/03 19:46 MGJ Project Number: 007591
 Date Time Analyst

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			49.9	250	100	49.8	250	100
Benzene	71-43-2	1.00	ND			ND			48.5	250	97.0	50.8	250	102
Trichloroethene	79-01-6	1.00	ND			ND			51.6	250	103	51.8	250	104
Toluene	108-88-3	1.00	ND			ND			46.2	250	92.3	47.8	250	96
Chlorobenzene	108-90-7	1.00	ND			ND			50.8	250	102	53.9	250	108
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	1.34			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-Chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	2.70			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	1.39			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	2.20			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	5.05			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	1.34			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			ND			ND		
Naphthalene	91-20-3	5.00	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA


Client: Hercules
 Location: **HER MW01-082803**
 File #: BT88950

Collected: 08/28/03 12:15 Client
 Received: 08/29/03 8:30 LR
 Analysis: 09/08/03 19:46 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	1.40			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	1.23			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-Q4	17060-07-0		48.3	250.0	96.5	51.2	250.0	102	48.8	250	97.5	50.6	250	101
Dibromofluoromethane	1868-53-7		50.6	250.0	101	51.3	250.0	103	51.0	250	102	51.0	250	102
Toluene-d8	2037-26-5		49.7	250.0	99.5	49.5	250.0	99.0	48.5	250	96.9	49.6	250	99.2
4-Bromofluorobenzene	460-00-4		53.3	250.0	107	56.3	250.0	113	55.9	250	112	56.3	250	113

PQL is set as low point on the curve
 J result is above MDL but below PQL


 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/Eco-Systems
 Sample ID: HER-MW-01-082803
 File #: BT88950

Collected: 08/28/03 12:15 Client
 Extracted: 09/03/03 13:45 SCF
 Analyzed: 09/17/03 SCF
 Date Analyst

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

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			MATRIX SPIKE			MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			4.67	5.00	93.4	4.69	5.00	93.8
Dioxathion (cis)	0.400	ND			ND			4.79	5.00	95.8	4.82	5.00	96.4
Dioxathion (trans)	0.400	ND			ND			4.35	5.00	87.0	4.19	5.00	83.8
SURROGATE COMPOUNDS													
Naphthalene		4.36	Spiked Amount 5.00	87.2	2.99	Spiked Amount 5.00	59.8	4.13	5.00	82.6	4.89	5.00	97.8

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
 Location: HER_MW04-082803
 File #: BT88954

Collected: 08/28/03 15:45 Client LR
 Received: 08/29/03 8:30 LR
 Analyzed: 09/09/03 14:29 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			49.9	250	100	49.8	250	100
Benzene	71-43-2	1.00	ND			ND			48.5	250	97	50.8	250	102
Trichloroethene	79-01-6	1.00	ND			ND			51.6	250	103	51.8	250	104
Toluene	108-88-3	1.00	ND			ND			46.2	250	92	47.8	250	96
Chlorobenzene	108-90-7	1.00	ND			ND			50.8	250	102	53.9	250	108
Bromobenzene	108-86-1	1.00	ND			ND			ND	ND		ND	ND	
Bromochloromethane	74-97-5	1.00	ND			ND			ND	ND		ND	ND	
Bromodichloromethane	75-27-4	1.00	ND			ND			ND	ND		ND	ND	
Bromoform	75-25-2	1.00	ND			ND			ND	ND		ND	ND	
Bromomethane	74-83-9	5.00	ND			ND			ND	ND		ND	ND	
n-Butylbenzene	104-51-8	1.00	ND			ND			ND	ND		ND	ND	
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND	ND		ND	ND	
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND	ND		ND	ND	
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND	ND		ND	ND	
Chloroethane	75-00-3	5.00	ND			ND			ND	ND		ND	ND	
Chloroform	66-67-3	1.00	ND			ND			ND	ND		ND	ND	
Chloromethane	74-87-3	1.00	ND			ND			ND	ND		ND	ND	
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND	ND		ND	ND	
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND	ND		ND	ND	
Dibromochloromethane	124-48-1	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND	ND		ND	ND	
Dibromomethane	74-95-3	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND	ND		ND	ND	
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND	ND		ND	ND	
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND	ND		ND	ND	
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND	ND		ND	ND	
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND	ND		ND	ND	
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND	ND		ND	ND	
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND	ND		ND	ND	
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND	ND		ND	ND	
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND	ND		ND	ND	
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND	ND		ND	ND	
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND	ND		ND	ND	
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND	ND		ND	ND	
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND	ND		ND	ND	
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND	ND		ND	ND	
Ethyl benzene	100-41-4	1.00	ND			ND			ND	ND		ND	ND	
Hexachlorbutadiene	87-68-3	1.00	ND			ND			ND	ND		ND	ND	
Isopropylbenzene	98-82-8	1.00	ND			ND			ND	ND		ND	ND	
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND	ND		ND	ND	
Methylene chloride	75-09-2	5.00	ND			ND			ND	ND		ND	ND	
Naphthalene	91-20-3	5.00	ND			ND			ND	ND		ND	ND	
n-Propylbenzene	103-65-1	1.00	ND			ND			ND	ND		ND	ND	

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
 Location: **HIER_MW04-082803**
 File #: BT88954

Collected: 08/28/03 15:45 Client LR
 Received: 08/29/03 8:30 LR
 Analysis: 09/09/03 14:29 MGJ Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogates Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		52.2	250.0	104	51.2	250.0	102	48.8	250	97.5	50.6	250	101
Dibromofluoromethane	1868-53-7		48.7	250.0	97.5	51.3	250.0	103	51.0	250	102	51.0	250	102
Toluene-d8	2037-26-5		50.2	250.0	100	49.5	250.0	99.0	48.5	250	96.9	49.6	250	99.2
4-Bromofluorobenzene	460-00-4		53.9	250.0	108	56.3	250.0	113	55.9	250	112	56.3	250	113


PQL is set as low point on the curve
 J result is above MDL but below PQL

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/Eco-Systems Sample Type: Water
 Sample ID: HER-MW04-082803 Extraction Method: SW846_3510C
 File #: BTB8954 Analysis Method: Modified SW846
 Collected: 08/28/03 15:45 Client: SCF
 Extracted: 09/03/03 13:45 Analyst: SCF
 Analyzed: 10/31/03 Date: _____

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL % Recovery	
Dioxenethion	0.400	6.34		ND		4.67	5.00	4.69	5.00	93.8
Dioxathion (cis)	0.400	1.82		ND		4.79	5.00	4.82	5.00	96.4
Dioxathion (trans)	0.400	ND		ND		4.35	5.00	4.19	5.00	83.8
SURROGATE COMPOUNDS										
Naphthalene		4.87	Spiked Amount 5.00 97.4 %	Detected Amount 2.99	Spiked Amount 5.00 59.8 %	Detected Amount 4.13	Spiked Amount 5.00 82.6 %	Detected Amount 4.89	Spiked Amount 5.00 97.8 %	

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
 Location: **HER MW10-082803**
 File #: BT88951

Collected: 08/28/03 14:00 Client
 Received: 08/29/03 8:30 LR
 Analyzed: 09/08/03 20:28 MGI
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			49.9	250	100	49.8	250	100
Benzene	71-43-2	1.00	ND			ND			48.5	250	97	50.8	250	102
Trichloroethene	79-01-6	1.00	ND			ND			51.6	250	103	51.8	250	104
Toluene	108-88-3	1.00	ND			ND			46.2	250	92	47.8	250	96
Chlorobenzene	108-90-7	1.00	ND			ND			50.8	250	102	53.9	250	108
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoforn	75-25-2	1.00	1.55			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorobluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorobluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			ND			ND		
Naphthalene	91-20-3	5.00	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
 Location: **HER MW10-082803**
 File #: BT88951

Collected: 08/28/03 14:00 Client LR
 Received: 08/29/03 8:30 LR
 Analysis: 09/08/03 20:28 MGJ Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		48.3	250.0	96.5	51.2	250.0	102	48.8	250	97.5	50.6	250	101
Dibromofluoromethane	1868-53-7		50.6	250.0	101	51.3	250.0	103	51.0	250	102	51.0	250	102
Toluene-d8	2037-26-5		49.7	250.0	99.5	49.5	250.0	99.0	48.5	250	96.9	49.6	250	99.2
4-Bromofluorobenzene	460-00-4		53.3	250.0	107	56.3	250.0	113	55.9	250	112	56.3	250	113


PQL is set as low point on the curve
 J result is above MDL but below PQL

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

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE			MATRIX SPIKE DUPLICATE				
		Detected Amount ug/L (ppb)	Spike Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND	4.67	5.00	93.4	4.69	5.00	93.8	5.00	93.8
Dioxathion (cis)	0.400	ND			ND	4.79	5.00	95.8	4.82	5.00	96.4	5.00	96.4
Dioxathion (trans)	0.400	ND			ND	4.35	5.00	87.0	4.19	5.00	83.8	5.00	83.8
SURROGATE COMPOUNDS													
Naphthalene		4.09	5.00	81.8	2.99	4.13	5.00	82.6	4.89	5.00	97.8	5.00	97.8


Client: Hercules/Eco-Systems Collected: 08/28/03 14:00 Client: _____
 Sample ID: HER-MN10-082803 Extracted: 09/03/03 13:45 SCF _____
 File #: 8188951 Analyzed: 09/17/03 _____ SCF _____
 Date _____ Analyst _____


 Certified by: Michael S. Bonner, Ph.D.
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BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercules/Eco-Systems Collected: 08/28/03 Client: Water
 Sample ID: HER-MW10-082803 Extracted: 09/03/03 13:45 Extraction Method: SWR46_3510C
 File #: BT88951D Analyzed: 09/17/03 Date Analyst: SCF
 Analysis Method: Modified SWR46

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE			
		Detected Amount ug/L (ppb)	Spike Amount ug/L	Detected Amount ug/L (ppb)	Spike Amount ug/L	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Detected Amount ug/mL (ppm)	Spike Amount ug/mL		
Dioxenethion	0.400	ND		ND		4.67	5.00	4.69	5.00	93.4	93.8
Dioxathion (cis)	0.400	ND		ND		4.79	5.00	4.82	5.00	95.8	96.4
Dioxathion (trans)	0.400	ND		ND		4.35	5.00	4.19	5.00	87.0	83.8
SURROGATE COMPOUNDS		Detected Amount	Spike Amount	Detected Amount	Spike Amount	Detected Amount	Spike Amount	Detected Amount	Spike Amount	% Recovery	% Recovery
Naphthalene		4.41	5.00	2.99	5.00	4.13	5.00	4.89	5.00	82.6	97.8


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BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
 Location: **HER_MW11-082803**
 File #: BT88955

Collected: 08/28/03 17:15 Client
 Received: 08/29/03 8:30 LR
 Analyzed: 09/09/03 15:10 MGD
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			49.9	250	100	49.8	250	100
Benzene	71-43-2	1.00	ND			ND			48.5	250	97	50.8	250	102
Trichloroethene	79-01-6	1.00	ND			ND			51.6	250	103	51.8	250	104
Toluene	108-88-3	1.00	ND			ND			46.2	250	92	47.8	250	96
Chlorobenzene	108-90-7	1.00	ND			ND			50.8	250	102	53.9	250	108
Bromobenzene	108-86-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromochloromethane	74-97-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromodichloromethane	75-27-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromoform	75-25-2	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromomethane	74-83-9	5.00	ND			ND			ND	ND	ND	ND	ND	ND
n-Butylbenzene	104-51-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Chloroethane	75-00-3	5.00	ND			ND			ND	ND	ND	ND	ND	ND
Chloroform	66-67-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Chloromethane	74-87-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Dibromochloromethane	124-48-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Dibromomethane	74-95-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Ethyl benzene	100-41-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5.00	ND			ND			ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	5.00	ND			ND			ND	ND	ND	ND	ND	ND
n-Propylbenzene	103-65-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA


Client: Hercules
 Location: **HER_MW11-082803**
 File #: BT88955

Collected: 08/28/03 17:15 Client
 Received: 08/29/03 8:30 LR
 Analysis: 09/09/03 15:10 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007591

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88952)			MATRIX SPIKE DUP (BT88953)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		51.1	250.0	102	51.2	250.0	102	48.8	250	97.5	50.6	250	101
Dibromofluoromethane	1868-53-7		50.4	250.0	101	51.3	250.0	103	51.0	250	102	51.0	250	102
Toluene-d8	2037-26-5		52.6	250.0	105	49.5	250.0	99.0	48.5	250	96.9	49.6	250	99.2
4-Bromofluorobenzene	460-00-4		54.9	250.0	110	56.3	250.0	113	55.9	250	112	56.3	250	113

PQL is set as low point on the curve
 J result is above MDL but below PQL

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

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE			
		Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	% Recovery	
Dioxenethion	0.400	6.24		ND		4.67	5.00	4.69	5.00	93.4	93.8
Dioxathion (cis)	0.400	ND		ND		4.79	5.00	4.82	5.00	95.8	96.4
Dioxathion (trans)	0.400	ND		ND		4.35	5.00	4.19	5.00	87.0	83.8
SURROGATE COMPOUNDS											
Naphthalene		4.44	5.00	2.99	5.00	4.13	5.00	4.89	5.00	82.6	97.8

Client: Hercules/Eco-Systems
 Sample ID: HER-MW11-082803
 File #: BTB8956

Collected: 08/29/03 Client: SCF
 Extracted: 09/03/03 13:45 Analyst: SCF
 Analyzed: 10/31/03 Date: _____

Sample Type: Water
 Extraction Method: SWB46_3510C
 Analysis Method: Modified SWB46

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc. Collected: 09/03/03 14:30 Client Sample Type: Water
 Location: **HER_CM00-SW090303** Received: 09/03/03 16:00 LR Analysis Method: 8260B
 File #: BT89024 Analyzed: 09/17/03 19:11 MGI Project Number: 007656

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUP (BT89026Y)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			39.5	250	79	40.0	250	80
Benzene	71-43-2	1.00	ND			ND			55.1	250	110	50.5	250	101
Trichloroethene	79-01-6	1.00	ND			ND			40.2	250	80	38.5	250	77
Toluene	108-88-3	1.00	ND			ND			45.1	250	90	45.6	250	91
Chlorobenzene	108-90-7	1.00	ND			ND			28.2	250	56	41.2	250	82
Bromobenzene	108-86-1	1.00	4.18			ND			6.90			7.34		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	3.40			ND			1.86			1.94		
4-Chlorotoluene	106-43-4	1.00	4.61			ND			2.57			1.99		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	3.44			ND			2.39			3.46		
1,3-Dichlorobenzene	541-73-1	1.00	3.66			ND			3.89			4.17		
1,4-Dichlorobenzene	106-46-7	1.00	7.54			ND			6.81			4.63		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	4.14			ND			6.15			3.11		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			1.02		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			ND			ND		
Naphthalene	91-20-3	5.00	ND			ND			2.27			8.23		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.
 Location: **HER_CM00-SW090303**
 File #: BT89024

Collected: 09/03/03 14:30 Client
 Received: 09/03/03 16:00 LR
 Analysis: 09/17/03 19:11 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007656

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUP (BT89026Y)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	3.16			ND			2.20			2.73		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethane	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			1.99			2.36		
1,3,5-Trimethylbenzene	108-67-8	1.00	1.04			ND			3.53			4.84		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	8.31			ND			ND			24.9		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		44.6	250.0	89.2	49.4	250.0	98.8	46.8	250	93.7	50.5	250	101
Dibromofluoromethane	1868-53-7		48.2	250.0	96.4	56.1	250.0	112	46.9	250	93.7	50.2	250	100
Toluene-d8	2037-26-5		51.6	250.0	103	52.3	250.0	105	52.1	250	104	54.3	250	109
4-Bromofluorobenzene	460-00-4		46.8	250.0	93.7	46.2	250.0	92.3	51.0	250	102	55.2	250	110

* Surrogate recoveries out of range, Previous dilutions with in range.
 PQL is set as low point on the curve
 J result is above MDL but below PQL

Certified by:



Michael S. Bonner, Ph. D.
 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.
 Location: **HER_CM01-SW090303**
 File #: BT89025

Collected: 09/03/03 13:45 Client
 Received: 09/03/03 16:00 LR
 Analyzed: 09/18/03 11:22 MGJ

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007656

Date: _____ Time: _____ Analyst: _____

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUP (BT89026Y)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			39.5	250	79	40.0	250	80
Benzene	71-43-2	1.00	ND			ND			55.1	250	110	50.5	250	101
Trichloroethene	79-01-6	1.00	ND			ND			40.2	250	80	38.5	250	77
Toluene	108-88-3	1.00	4.66			ND			45.1	250	90	45.6	250	91
Chlorobenzene	108-90-7	1.00	6.58			ND			28.2	250	56	41.2	250	82
Bromobenzene	108-86-1	1.00	13.0			ND			6.90		*	7.34		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	2.53			ND			1.86			1.94		
4-Chlorotoluene	106-43-4	1.00	4.17			ND			2.57			1.99		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	3.76			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	3.42			ND			3.89			3.46		
1,4-Dichlorobenzene	106-46-7	1.00	6.35			ND			6.81			4.17		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			4.63		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	1.71			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
1,1-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
Ethyl benzene	10061-02-6	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	100-41-4	1.00	1.55			ND			6.15			3.11		
Isopropylbenzene	87-68-3	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	98-82-8	1.00	ND			ND			ND			1.02		
Methylene chloride	99-87-6	1.00	ND			ND			ND			ND		
Naphthalene	75-09-2	5.00	ND			ND			ND			ND		
n-Propylbenzene	91-20-3	5.00	14.7			ND			2.27			8.23		
	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.
 Location: **HER_CM01-SW090303**
 File #: BT89025

Collected: 09/03/03 13:45 Client
 Received: 09/03/03 16:00 LR
 Analysis: 09/18/03 11:22 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007656

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUP (BT89026Y)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	2.36			ND			2.20			2.73		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	6.64			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	1.80			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	1.30			ND			1.99			2.36		
1,3,5-Trimethylbenzene	108-67-8	1.00	1.57			ND			3.53			4.84		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	7.41			ND			ND			24.9		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		58.4	250.0	116.9	49.4	250.0	98.8	46.8	250.0	93.7	50.5	250.0	101
Dibromofluoromethane	1868-53-7		54.5	250.0	109.0	56.1	250.0	112	46.9	250.0	93.7	50.2	250.0	100
Toluene-d8	2037-26-5		53.0	250.0	106	52.3	250.0	105	52.1	250.0	104	54.3	250.0	109
4-Bromofluorobenzene	460-00-4		54.6	250.0	109.2	46.2	250.0	92.3	51.0	250.0	102	55.2	250.0	110

* Surrogate recoveries out of range, Previous dilutions with in range.
 PQL is set as low point on the curve
 J result is above MDL but below PQL

Certified by: 
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 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.
 Location: **HER_CM00-SD-090303**
 File #: BT89027

Collected: 09/03/03 14:30 Client
 Received: 09/03/03 16:00 LR
 Analyzed: 09/18/03 13:27 MGI
 Date Time Analyst

Sample Type: Soil
 Analysis Method: 8260B
 Project Number: 007656

Compound Name	CAS Number	PQL ug/Kg (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUP (BT89026Y)		
			Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			50.7	250	101	47.8	250	96
Benzene	71-43-2	5.00	ND			ND			55.1	250	110	42.5	250	85
Trichloroethene	79-01-6	5.00	ND			ND			53.9	250	108	50.8	250	102
Toluene	108-88-3	5.00	ND			ND			48.7	250	97	52.7	250	105
Chlorobenzene	108-90-7	5.00	ND			ND			45.2	250	90	45.4	250	91
Bromobenzene	108-86-1	5.00	4.79			ND			4.44			ND		
Bromochloromethane	74-97-5	5.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	5.00	ND			ND			ND			ND		
Bromoform	75-25-2	5.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	5.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	5.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	5.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	5.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	5.00	ND			ND			ND			ND		
Chloromethane	74-87-3	5.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	5.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	5.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	5.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	5.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	5.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	5.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	5.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	5.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	5.00	4.54			ND			3.60			4.29		
Dichlorodifluoromethane	75-71-8	5.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	5.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	5.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	5.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	5.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	5.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	5.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	5.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	5.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	5.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	5.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	5.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			ND			ND		
Naphthalene	91-20-3	5.00	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	5.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA


Compound Name	CAS Number	PQL ug/Kg (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUJP (BT89026Y)					
			Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery			
															Date	Time	Analyst
Styrene	100-42-5	5.00	ND			ND			ND								
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND								
1,1,2,2-Tetrachloroethane	79-34-5	5.00	ND			ND			ND								
Tetrachloroethene	127-18-4	5.00	ND			ND			ND								
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND								
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND								
1,1,1-Trichloroethane	71-55-6	5.00	ND			ND			ND								
1,1,2-Trichloroethane	79-00-5	5.00	ND			ND			ND								
Trichlorofluoromethane	75-69-4	5.00	ND			ND			ND								
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND								
1,2,4-Trimethylbenzene	95-63-6	5.00	ND			ND			ND								
1,3,5-Trimethylbenzene	108-67-8	5.00	ND			ND			ND								
Vinyl chloride	75-01-4	5.00	ND			ND			ND								
Xylenes (total)	1330-20-7	5.00	ND			ND			ND								
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
1,2-Dichloroethane-d4	17060-07-0		49.6	250.0	99.3	49.4	250.0	98.8	52.0	250.0	104.0	44.5	250.0	89	250.0	250.0	89
Dibromofluoromethane	1868-53-7		53.0	250.0	105.9	56.1	250.0	112	55.1	250.0	110.1	49.7	250.0	99	250.0	250.0	99
Toluene-d8	2037-26-5		52.0	250.0	104	52.3	250.0	105	53.9	250.0	108	52.9	250.0	106	250.0	250.0	106
4-Bromofluorobenzene	460-00-4		45.6	250.0	91.2	46.2	250.0	92.3	48.7	250.0	97	51.5	250.0	103	250.0	250.0	103

Client: Eco-Systems Inc.
 Location: **HER_CM00-SD-090303**
 File #: BT89027

Collected: 09/03/03 14:30 Client
 Received: 09/03/03 16:00 LR
 Analysis: 09/18/03 13:27 MGJ
 Date Time Analyst

Sample Type: Soil
 Analysis Method: 8260B
 Project Number: 007656

* Surrogate recoveries out of range, Previous dilutions with in range.
 PQL is set as low point on the curve
 J result is above MDL but below PQL


 Certified by: Michael S. Bonner, Ph. D.
 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc. Collected: 09/03/03 13:45 Client
 Location: **HER CM01-SD-090303** Received: 09/03/03 16:00 LR
 File #: BT89028 Analyzed: 09/18/03 14:10 MGJ
 Sample Type: Soil
 Analysis Method: 8260B
 Project Number: 007656

Compound Name	CAS Number	PQL ug/Kg (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUP (BT89026Y)		
			Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			50.7	250	101	47.8	250	96
Benzene	71-43-2	5.00	ND			ND			55.1	250	110	42.5	250	85
Trichloroethene	79-01-6	5.00	ND			ND			53.9	250	108	50.8	250	102
Toluene	108-88-3	5.00	7.28			ND			48.7	250	97	52.7	250	105
Chlorobenzene	108-90-7	5.00	ND			ND			45.2	250	90	45.4	250	91
Bromobenzene	108-86-1	5.00	7.67			ND			4.44	250		4.68	250	
Bromochloromethane	74-97-5	5.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	5.00	ND			ND			ND			ND		
Bromoform	75-25-2	5.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	5.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	5.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	5.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	5.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	5.00	ND			ND			ND			ND		
Chloromethane	74-87-3	5.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	5.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	5.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	5.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	5.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	5.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	5.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	5.00	3.21			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	5.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	5.00	5.07			ND			3.60	250		4.29	250	
Dichlorodifluoromethane	75-71-8	5.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	5.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	5.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	5.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	5.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	5.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	5.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	5.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	5.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	5.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	5.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	5.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			ND			ND		
Naphthalene	91-20-3	5.00	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	5.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.
 Location: **HER CM01-SD-090303**
 File #: BT89028

Collected: 09/03/03 13:45 Client
 Received: 09/03/03 16:00 LR
 Analysis: 09/18/03 14:10 MGJ Analyst

Sample Type: Soil
 Analysis Method: 8260B
 Project Number: 007656

Compound Name	CAS Number	POL ug/Kg (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT89026Z)			MATRIX SPIKE DUJP (BT89026Y)				
			Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery		
															Spiked Amount	Spiked Amount
Styrene	100-42-5	5.00	ND			ND			ND							
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND							
1,1,2,2-Tetrachloroethane	79-34-5	5.00	ND			ND			ND							
Tetrachloroethene	127-18-4	5.00	ND			ND			ND							
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND							
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND							
1,1,1-Trichloroethane	71-55-6	5.00	ND			ND			ND							
1,1,2-Trichloroethane	79-00-5	5.00	ND			ND			ND							
Trichlorofluoromethane	75-69-4	5.00	ND			ND			ND							
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND							
1,2,4-Trimethylbenzene	95-63-6	5.00	ND			ND			ND							
1,3,5-Trimethylbenzene	108-67-8	5.00	ND			ND			ND							
Vinyl chloride	75-01-4	5.00	ND			ND			ND							
Xylenes (total)	1330-20-7	5.00	ND			ND			ND							
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
1,2-Dichloroethane-d4	17060-07-0		49.1	250.0	98.2	49.4	250.0	98.8	52.0	250.0	104.0	44.5	250.0	89	44.5	250.0
Dibromofluoromethane	1868-53-7		43.5	250.0	87.0	56.1	250.0	112	55.1	250.0	110.1	49.7	250.0	99	49.7	250.0
Toluene-d8	2037-26-5		54.9	250.0	110	52.3	250.0	105	53.9	250.0	108	52.9	250.0	106	52.9	250.0
4-Bromofluorobenzene	460-00-4		50.2	250.0	100.3	46.2	250.0	92.3	48.7	250.0	97	51.5	250.0	103	51.5	250.0

* Surrogate recoveries out of range, Previous dilutions with in range.
 PQL is set as low point on the curve
 J result is above MDL but below PQL

Certified by:



Michael S. Bonner, Ph. D.
 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems, Inc.

Location: **HER-GP02-GW**

File #: BT88679

Collected: 08/11/03

13:50

Sample Type: Water

Received: 08/11/03

17:00

Analysis Method: 8260B

Analyzed: 08/11/03

18:00

Project Number: 007403

Date

Time

SR

LR

MGJ

Analyst

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	1.05	15.0			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	70500			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	2.33			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	4800			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	71.2			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	1.71			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.49	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	3.76			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	223			ND			ND			ND		
Chloroethane	75-00-3	1.11	18.4			ND			ND			ND		
Chloroform	66-67-3	1.00	317			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	6.06			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	1.78			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	2.40			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	3.10	15.0			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	27.8			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	46.1			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.05	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	20.3			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.03	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	115			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	1.11			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	2.10			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	61.7			ND			12.4			12.0		
Methylene chloride	75-09-2	1.28	ND			ND			72.1			71.2		
Naphthalene	91-20-3	1.10	20.4			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems, Inc.
 Location: **HER-GP02-GW**
 File #: BT88679

Collected: 08/11/03 13:50 SR
 Received: 08/11/03 17:00 LR
 Analysis: 08/11/03 18:00 MGI Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007403

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE		BLANK		MATRIX SPIKE DUP (BT88703)		MATRIX SPIKE DUP (BT88703)	
			Detected Amount ug/L (ppb)	% Recovery	Detected Amount ug/L (ppb)	% Recovery	Detected Amount ug/L (ppb)	% Recovery	Detected Amount ug/L (ppb)	% Recovery
Styrene	100-42-5	1.00	4.49		ND		ND		ND	
1,1,1,2-Tetrachloroethane	630-20-6	1.03	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND		ND		ND		ND	
Tetrachloroethene	127-18-4	1.00	30.9		ND		ND		ND	
1,2,3-Trichlorobenzene	87-61-6	1.36	8.16		ND		ND		ND	
1,2,4-Trichlorobenzene	120-82-1	1.25	10.1		ND		ND		ND	
1,1,1-Trichloroethane	71-55-6	1.00	ND		ND		ND		ND	
1,1,2-Trichloroethane	79-00-5	1.00	39.4		ND		ND		ND	
Trichlorofluoromethane	75-69-4	1.00	ND		ND		ND		ND	
1,2,3-Trichloropropane	96-18-4	1.19	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	95-63-6	1.00	5.33		ND		ND		ND	
1,3,5-Trimethylbenzene	108-67-8	1.00	3.76		ND		ND		ND	
Vinyl chloride	75-01-4	1.00	3.07		ND		ND		ND	
Xylenes (total)	1330-20-7	1.50	466		ND		ND		ND	
Surrogate Compounds			Detected Amount	% Recovery	Detected Amount	% Recovery	Detected Amount	% Recovery	Detected Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		327.2	654.5 *	45.7	91.3	48.0	95.9	46.0	92.1
Dibromofluoromethane	1868-53-7		250.0	63.9 *	46.2	92.3	44.5	89.0	44.0	88.0
Toluene-d8	2037-26-5		250.0	98.8	51.6	103.1	54.7	109	54.2	108
4-Bromofluorobenzene	460-00-4		250.0	91.1	56.0	112.0	52.3	105	50.9	102

PQL is set as low point on the curve

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/Eco-Systems
 Sample ID: HER-GP02-GW
 File #: BT88679

Collected: 08/11/03 13:50 Client
 Extracted: 08/15/03 9:45 SCF
 Analyzed: 09/12/03 Date SCF
 Analyst

Sample Type: Water
 Extraction Method: SW846_3510C
 Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
		Detected Amount ug/L (ppb)	Amount ug/L Spike % Recovery	Detected Amount ug/L (ppb)	Amount ug/L Spike % Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL Spike % Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL Spike % Recovery
Dioxenethion	0.400	ND		ND		4.55	5.00	4.85	5.00
Dioxathion (cis)	0.400	ND		ND		5.30	5.00	4.43	5.00
Dioxathion (trans)	0.400	ND		ND		4.81	5.00	4.77	5.00
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount % Recovery	Detected Amount	Spiked Amount % Recovery	Detected Amount	Spiked Amount % Recovery	Detected Amount	Spiked Amount % Recovery
Naphthalene		3.94	5.00 78.8	2.99	5.00 59.8	4.55	5.00 91.0	4.18	5.00 83.6

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.
 Location: **HER_GP04-7-8**
 File #: 8788678

Collected: 08/11/03 11:15 Client
 Received: 08/29/03 8:30 LR
 Analyzed: 09/09/03 15:52 MGJ

Sample Type: Soil
 Analysis Method: 8260B
 Project Number: 007403

Date
 Time Analyst

Compound Name	CAS Number	PQL ug/Kg (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUPL		
			Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery
1,1-Dichloroethane	75-35-4	5.25	ND			ND			62.7	250	125	61.1	250	122
Benzene	71-43-2	5.00	62.0			ND			59.5	250	119	58.3	250	117
Trichloroethane	79-01-6	5.00	ND			ND			58.5	250	117	58.1	250	116
Toluene	108-88-3	5.00	43.4			ND			49.9	250	100	49.0	250	98
Chlorobenzene	108-90-7	5.00	ND			ND			47.1	250	94	47.1	250	94
Bromobenzene	108-86-1	5.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	5.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	5.00	ND			ND			ND			ND		
Bromoform	75-25-2	5.00	ND			ND			ND			ND		
Bromomethane	74-83-9	7.45	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	5.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	5.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	5.00	ND			ND			4.63			5.39		
Carbon Tetrachloride	56-23-5	5.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.55	ND			ND			ND			ND		
Chloroform	66-67-3	5.00	ND			ND			ND			ND		
Chloromethane	74-87-3	5.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	5.00	9.50			ND			ND			ND		
4-Chlorotoluene	106-43-4	5.00	4.47			ND			ND			ND		
Dibromochloromethane	124-48-1	5.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	5.00	ND			ND			ND			ND		
1,2-Dibromomethane	106-93-4	5.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	5.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	5.00	4.09			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	5.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	5.00	4.56			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	5.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	15.50	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	156-59-2	5.00	ND			ND			ND			ND		
trans-1,2-Dichloroethane	156-60-5	5.25	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	5.00	ND			ND			ND			ND		
1,3-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
2,2-Dichloropropane	563-58-6	5.15	ND			ND			ND			ND		
1,1-Dichloropropene	10061-01-5	5.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-02-6	5.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	100-41-4	5.00	ND			ND			ND			ND		
Ethyl benzene	87-68-3	5.00	19.0			ND			ND			ND		
Hexachlorobutadiene	98-82-8	5.00	1.04			ND			ND			ND		
Isopropylbenzene	99-87-6	5.00	ND			ND			4.62			5.4		
p-Isopropyltoluene	75-09-2	6.40	ND			ND			ND			ND		
Methylene chloride	91-20-3	5.50	ND			ND			38.6			35.75		
Naphthalene	103-65-1	5.00	7.64			ND			ND			ND		
n-Propylbenzene														

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems Inc.

Location: **HER_GP04-7-8**

File #: BTB8678

Collected: 08/11/03 11:15 Client

Received: 08/29/03 8:30 LR

Analysis: 09/09/03 15:52 MGI Analyst

Sample Type: Soil

Analysis Method: 8260B

Project Number: 007403

Compound Name	CAS Number	PQL ug/Kg (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ug	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery	Detected Amount ug/Kg (ppb)	Amount ng	% Recovery
Styrene	100-42-5	5.00	23.5			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.15	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	5.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	5.00	26.0			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	6.80	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	6.25	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	5.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	5.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	5.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.95	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	5.00	36.0			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	5.00	22.2			ND			ND			ND		
Vinyl chloride	75-01-4	5.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	7.50	304			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		40.5	250.0	81	54.0	250.0	108	48.2	250	96.4	43.9	250	87.8
Dibromofluoromethane	1868-53-7		0.0	250.0	0.0	50.9	250.0	102	50.0	250	100	50.3	250	101
Toluene-d8	2037-26-5		45.2	250.0	90	50.9	250.0	102	50.6	250	101	49.8	250	99.6
4-Bromofluorobenzene	460-00-4		72.4	250.0	145	55.3	250.0	111	53.5	250	107	55.1	250	110

* Surrogate recoveries out of range, Previous dilutions with in range.
 PQL is set as low point on the curve
 J result is above MDL but below PQL

Certified by: 
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 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems, Inc.
 Location: **HER-GP04-GW**
 File #: BT88680

Collected: 08/11/03 SR
 Received: 08/11/03 LR
 Analyzed: 08/11/03 MGI
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007403

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	269			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	80.9			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	1.23			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	1.15			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	5.25			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	4.10			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	33.8			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			12.4			12.0		
Methylene chloride	75-09-2	5.00	ND			ND			72.1			71.2		
Naphthalene	91-20-3	5.00	16.45			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco-Systems, Inc.

Location: **HER-GP04-GW**

File #: BT88680

Collected: 08/11/03 15:40 SR
 Received: 08/11/03 17:00 LR
 Analysis: 08/11/03 23:22 MGI
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007403

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE DUP (BT88703)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	3.88			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	3.03			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	10.67			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	4.08			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	12.3			ND			ND			ND		
Surrogates Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-04	17060-07-0		40.5	250.0	81.0	45.7	250.0	91.3	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		46.9	250.0	93.7	46.2	250.0	92.3	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		51.3	250.0	102.6	51.6	250.0	103.1	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		51.0	250.0	102.1	56.0	250.0	112.0	52.3	250	105	50.9	250	102

PQL is set as low point on the curve
 J result is above MDL but below PQL

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

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			MATRIX SPIKE			MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			4.55	5.00	93.4	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND			ND			5.30	5.00	87.0	4.43	5.00	93.0
Dioxathion (trans)	0.400	1.92			ND			4.81	5.00	71.4	4.77	5.00	84.0
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		3.81	5.00	76.2	2.99	5.00	59.8	4.55	5.00	91.0	4.18	5.00	83.6

Client: Hercules/Eco-Systems Collected: 08/11/03 15:40 Client: _____
 Sample ID: HER-GP04-GW Extracted: 08/15/03 9:45 Extraction Method: SWB46 3510C
 File #: BT88680 Analyzed: 09/12/03 Analysis Method: Modified SWB46

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: HER-GP05-GW
 File #: BT88707

Collected: 08/12/03 14:23 Client
 Received: 08/12/03 17:15 JR
 Analyzed: 08/13/03 5:34 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007415

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	ND			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	20.7			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	156-60-5	5.00	ND			ND			ND			ND		
1,3-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	594-20-7	5.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
Ethyl benzene	10061-02-6	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	100-41-4	1.00	ND			ND			ND			ND		
Isopropylbenzene	87-68-3	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	98-82-8	1.00	ND			ND			ND			ND		
Methylene chloride	99-87-6	1.00	ND			ND			ND			ND		
Naphthalene	75-09-2	5.00	ND			ND			12.4			12.0		
n-Propylbenzene	91-20-3	5.00	ND			ND			72.1			71.2		
	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA


Client: Eco Systems Inc.
 Location: **HER-GP05-GW**
 File #: BT88707

Collected: 08/12/03 14:23 Client
 Received: 08/12/03 17:15 JR
 Analysis: 08/13/03 5:34 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007415

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		48.0	250	96.1	43.2	250	86.5	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		43.1	250	86.3	43.7	250	87.5	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		54.5	250	109	54.0	250	108	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		51.1	250	102	50.8	250	102	52.3	250	105	50.9	250	102

PQL is set as low point on the curve


 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/Eco-Systems		Collected: <u>08/12/03</u> 14:23		Client: _____	
Sample ID: <u>HER-GP05-GW</u>		Extracted: <u>08/15/03</u> 9:45		Extraction Method: <u>SW846_3510C</u>	
File #: <u>BT88707</u>		Analyzed: <u>09/12/03</u>		Analysis Method: <u>Modified SW846</u>	
		Date: _____		SCF _____	
		Analyst: _____			

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
		Detected Amount ug/L (ppb)	Amount ug/L	Spiked Amount	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	Spiked Amount	% Recovery
Dioxenethion	0.400	ND		ND		4.55	5.00	4.85	5.00
Dioxathion (cis)	0.400	ND		ND		5.30	5.00	4.43	5.00
Dioxathion (trans)	0.400	ND		ND		4.81	5.00	4.77	5.00
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	Detected Amount	% Recovery	Detected Amount	Spiked Amount	Detected Amount	Spiked Amount
Naphthalene		3.54	5.00	2.99	70.8	4.55	5.00	4.18	5.00
					59.8				

*PQL's are the lowest point on the calibration curve

Certified by: 
 Michael S. Bonner, Ph.D.
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BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: **HER-GP06-GW**
 File #: BT88704

Collected: 08/12/03 11:00 Client
 Received: 08/12/03 13:30 JR
 Analyzed: 08/13/03 6:38 MGD
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007413

Compound Name	CAS Number	POL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	ND			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	13.6			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cs-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			12.4			ND		
Naphthalene	91-20-3	5.00	ND			ND			72.1			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP06-GW**

File #: BTB8704

Collected: 08/12/03 11:00 Client

Received: 08/12/03 13:30 JR

Analysis: 08/13/03 6:38 MGJ

Date: Time Analyst

Sample Type: Water

Analysis Method: 8260B

Project Number: 007413

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethane	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		46.6	250	93.2	43.2	250	86.5	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		44.6	250	89.2	43.7	250	87.5	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		54.7	250	109	54.0	250	108	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		48.9	250	97.8	50.8	250	102	52.3	250	105	50.9	250	102

PQL is set as low point on the curve

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/Eco-Systems
 Sample ID: HER-GP06-GW
 File #: BT88704

Collected: 08/12/03 11:00 Client
 Extracted: 08/15/03 9:45 SCF
 Analyzed: 09/12/03 _____ SCF
 Date Analyst

Sample Type: Water
 Extraction Method: SW846_3510C
 Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL % Recovery	
Dioxenethion	0.400	ND		ND		4.55	5.00	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND		ND		5.30	5.00	4.43	5.00	93.0
Dioxathion (trans)	0.400	ND		ND		4.81	5.00	4.77	5.00	84.0
SURROGATE COMPOUNDS		Detected Amount	Spike Amount % Recovery	Detected Amount	Spike Amount % Recovery	Detected Amount	Spike Amount % Recovery	Detected Amount	Spike Amount % Recovery	
Naphthalene		4.64	5.00 92.8	2.99	5.00 59.8	4.55	5.00	4.18	5.00	83.6

*PQL's are the lowest point on the calibration curve

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP07-GW**

File #: BT88708

Collected: 08/12/03

14:23 Client

Received: 08/12/03

17:15 JR

Analyzed: 08/13/03

7:42 MGJ

Date

Time Analyst

Sample Type: Water

Analysis Method: 8260B

Project Number: 007415

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	89.6			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	8.35			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			12.4			12.0		
Naphthalene	91-20-3	5.00	ND			ND			72.1			71.2		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: **HER-GP07-GW**
 File #: BT88708

Collected: 08/12/03 14:23 Client
 Received: 08/12/03 17:15 JR
 Analysis: 08/13/03 7:42 MGI
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007415

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		48.0	250	96.1	43.2	250	86.5	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		43.1	250	86.3	43.7	250	87.5	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		54.5	250	109	54.0	250	108	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		51.1	250	102	50.8	250	102	52.3	250	105	50.9	250	102

PQL is set as low point on the curve

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/Eco-Systems
 Sample ID: HER-GP07-GW
 File #: BT88708

Collected: 08/12/03 16:20
 Extracted: 08/15/03 9:45
 Analyzed: 09/12/03
 Date

Sample Type: Water
 Extraction Method: SWB46_3510C
 Analysis Method: Modified_SWB46

Client: SCF
 Analyst: SCF

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	% Recovery
Dioxenethion	0.400	ND		ND		4.55	5.00	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND		ND		5.30	5.00	4.43	5.00	93.0
Dioxathion (trans)	0.400	0.604		ND		4.81	5.00	4.77	5.00	84.0
SURROGATE COMPOUNDS										
Naphthalene		3.86	5.00	2.99	5.00	4.55	5.00	4.18	5.00	83.6

*PQL's are the lowest point on the calibration curve

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP08-GW**

File #: BT88700

Collected: 08/12/03

8:52 Client

Received: 08/12/03

13:30 JR

Analyzed: 08/13/03

8:47 MGJ

Date Time Analyst

Sample Type: Water

Analysis Method: 8260B

Project Number: 007413

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	ND			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	10.4			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108			
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	74-97-4	1.00	ND			ND			ND			ND		
Bromoform	75-27-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	5.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND			ND		
Chloroethane	75-00-3	5.00	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			ND			ND		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	11.1			ND			12.4			ND		
Naphthalene	91-20-3	5.00	ND			ND			72.1			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: **HER-GP08-GW**
 File #: BT88700

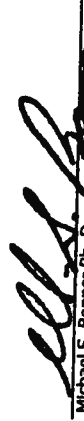
Collected: 08/12/03 8:52 Client JR
 Received: 08/12/03 13:30 MGI
 Analysis: 08/13/03 8:47 Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007413

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP Spike		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethane	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogates Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		46.3	250	92.6	43.2	250	86.5	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		43.3	250	86.6	43.7	250	87.5	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		54.7	250	109	54.0	250	108	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		49.4	250	98.7	50.8	250	102	52.3	250	105	50.9	250	102

PQL is set as low point on the curve

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/Eco-Systems
 Sample ID: HER-GP08-GW
 File #: BT88700

Collected: 08/12/03 8:52 Client
 Extracted: 08/15/03 9:45 SCF
 Analyzed: 09/12/03 SCF
 Date Analyst

Sample Type: Water
 Extraction Method: SW846_3510C
 Analysis Method: Modified SW846

COMPOUNDS	POL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	% Recovery
Dioxenethion	0.400	ND		ND		4.55	5.00	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND		ND		5.30	5.00	4.43	5.00	93.0
Dioxathion (trans)	0.400	1.52		ND		4.81	5.00	4.77	5.00	84.0
SURROGATE COMPOUNDS										
Naphthalene		4.88	5.00	2.99	5.00	4.55	5.00	4.18	5.00	83.6

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP08-Dup-GW**

File #: BT88701

Collected: 08/12/03

8:52 Client

Received: 08/12/03

13:30 JR

Analyzed: 08/13/03

9:51 MCI

Time Analyst

Sample Type: Water

Analysis Method: 8260B

Project Number: 007413

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	ND			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	7.50			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND	ND		ND	ND	
Bromochloromethane	74-97-5	1.00	ND			ND			ND	ND		ND	ND	
Bromodichloromethane	75-27-4	1.00	ND			ND			ND	ND		ND	ND	
Bromoform	75-25-2	1.00	ND			ND			ND	ND		ND	ND	
Bromomethane	74-83-9	5.00	ND			ND			ND	ND		ND	ND	
n-Butylbenzene	104-51-8	1.00	ND			ND			ND	ND		ND	ND	
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND	ND		ND	ND	
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND	ND		ND	ND	
Carbon Tetrachloride	58-23-5	1.00	ND			ND			ND	ND		ND	ND	
Chloroethane	75-00-3	5.00	ND			ND			ND	ND		ND	ND	
Chloroform	66-67-3	1.00	ND			ND			ND	ND		ND	ND	
Chloromethane	74-87-3	1.00	ND			ND			ND	ND		ND	ND	
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND	ND		ND	ND	
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND	ND		ND	ND	
Dibromochloromethane	124-48-1	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND	ND		ND	ND	
Dibromomethane	74-95-3	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND	ND		ND	ND	
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND	ND		ND	ND	
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND	ND		ND	ND	
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND	ND		ND	ND	
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND	ND		ND	ND	
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND	ND		ND	ND	
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND	ND		ND	ND	
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND	ND		ND	ND	
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND	ND		ND	ND	
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND	ND		ND	ND	
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND	ND		ND	ND	
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND	ND		ND	ND	
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND	ND		ND	ND	
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND	ND		ND	ND	
Ethyl benzene	100-41-4	1.00	ND			ND			ND	ND		ND	ND	
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND	ND		ND	ND	
Isopropylbenzene	98-82-8	1.00	ND			ND			ND	ND		ND	ND	
p-Isopropyltoluene	99-87-6	1.00	11.5			ND			12.4	250		12.0	250	
Methylene chloride	75-09-2	5.00	ND			ND			72.1	250		71.2	250	
Naphthalene	91-20-3	5.00	55.7			ND			ND	ND		ND	ND	
n-Propylbenzene	103-65-1	1.00	ND			ND			ND	ND		ND	ND	

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: **HER-GP08-Dup-GW**
 File #: BT188701

Collected: 08/12/03 8:52 Client
 Received: 08/12/03 13:30 JR
 Analysis: 08/13/03 9:51 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007413

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		49.3	250	98.6	43.2	250	86.5	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		43.3	250	86.7	43.7	250	87.5	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		54.7	250	109	54.0	250	108	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		51.3	250	103	50.8	250	105	52.3	250	105	50.9	250	102

PQL is set as low point on the curve

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/Eco-Systems**
 Sample ID: **HER-GP08-GW Dup**
 File #: **BT88701**

Collected: **08/12/03** 8:52 Client
 Extracted: **08/15/03** 9:45 SCF
 Analyzed: **09/12/03** Date SCF
 Analyst

Sample Type: **Water**
 Extraction Method: **SWB46_3510C**
 Analysis Method: **Modified SWB46**

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE					
		Detected Amount ug/L (ppb)	Amount ug/L	Spike % Recovery	Detected Amount ug/L (ppb)	Amount ug/L	Spike % Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery			
Dioxenethion	0.400	ND			ND			4.55	5.00	93.4	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND			ND			5.30	5.00	87.0	4.43	5.00	93.0
Dioxathion (trans)	0.400	ND			ND			4.81	5.00	71.4	4.77	5.00	84.0
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.25	5.00	145.0	2.99	5.00	59.8	4.55	5.00	91.0	4.18	5.00	83.6

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

Client: Hercules/Eco-Systems
 Sample ID: HER-GP08-GW Matrix Spike
 File #: BT88702

Collected: 08/12/03 8:52 Client: _____
 Extracted: 08/15/03 9:45 SCF _____
 Analyzed: 09/12/03 _____ SCF _____
 Date: _____ Analyst: _____

Sample Type: Water
 Extraction Method: SMB46 3510C
 Analysis Method: Modified SMB46

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE					
		Detected Amount ug/L (ppb)	Spike Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	% Recovery			
Dioxenethion	0.400	4.56			ND			4.55	5.00	93.4	4.85	5.00	99.8
Dioxathion (cis)	0.400	5.30			ND			5.30	5.00	87.0	4.43	5.00	93.0
Dioxathion (trans)	0.400	4.81			ND			4.81	5.00	71.4	4.77	5.00	84.0
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		4.55	5.00	91.0	2.99	5.00	59.8	4.55	5.00	91.0	4.18	5.00	83.6

Michael S. Bonner

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/Eco-Systems
 Sample ID: HER-GP08-GW Matrix Spike Dup
 File #: BT88703

Collected: 08/12/03 8:52 Client
 Extracted: 08/15/03 9:45 SCF
 Analyzed: 09/12/03 Date Analyst

Sample Type: Water
 Extraction Method: SW846_3510C
 Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/L (ppb)	Spiked Amount ug/L	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	Detected Amount ug/mL (ppm)	Spiked Amount ug/mL	% Recovery
Dioxenethion	0.400	4.85		ND		4.55	5.00	4.85	5.00	99.8
Dioxathion (cis)	0.400	4.43		ND		5.30	5.00	4.43	5.00	93.0
Dioxathion (trans)	0.400	4.77		ND		4.81	5.00	4.77	5.00	84.0
SURROGATE COMPOUNDS										
Naphthalene		4.18	5.00	2.99	5.00	4.55	5.00	4.18	5.00	83.6

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BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: **HER-GP09-GW**
 File #: BT88740

Collected: 08/13/03 10:47 Client
 Received: 08/13/03 12:00 JR
 Analyzed: 08/13/03 20:01 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007443

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702)			MATRIX SPIKE DUP (BT88703)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.8	250	120	58.7	250	117
Benzene	71-43-2	1.00	ND			ND			58.3	250	117	58.2	250	116
Trichloroethene	79-01-6	1.00	ND			ND			59.9	250	120	56.8	250	114
Toluene	108-88-3	1.00	ND			ND			59.2	250	118	58.4	250	117
Chlorobenzene	108-90-7	1.00	ND			ND			53.8	250	108	55.8	250	112
Bromobenzene	108-86-1	1.00	ND			ND			ND	ND		ND	ND	
Bromochloromethane	74-97-5	1.00	ND			ND			ND	ND		ND	ND	
Bromodichloromethane	75-27-4	1.00	ND			ND			ND	ND		ND	ND	
Bromoform	75-25-2	1.00	ND			ND			ND	ND		ND	ND	
Bromomethane	74-83-9	5.00	ND			ND			ND	ND		ND	ND	
n-Butylbenzene	104-51-8	1.00	ND			ND			ND	ND		ND	ND	
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND	ND		ND	ND	
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND	ND		ND	ND	
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND	ND		ND	ND	
Chloroethane	75-00-3	5.00	ND			ND			ND	ND		ND	ND	
Chloroform	66-67-3	1.00	ND			ND			ND	ND		ND	ND	
Chloromethane	74-87-3	1.00	ND			ND			ND	ND		ND	ND	
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND	ND		ND	ND	
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND	ND		ND	ND	
Dibromochloromethane	124-48-1	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dibromo-3-Chloropropane	96-12-8	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND	ND		ND	ND	
Dibromomethane	74-95-3	1.00	ND			ND			ND	ND		ND	ND	
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND	ND		ND	ND	
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND	ND		ND	ND	
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND	ND		ND	ND	
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND	ND		ND	ND	
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND	ND		ND	ND	
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND	ND		ND	ND	
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND	ND		ND	ND	
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND	ND		ND	ND	
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND	ND		ND	ND	
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND	ND		ND	ND	
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND	ND		ND	ND	
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND	ND		ND	ND	
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND	ND		ND	ND	
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND	ND		ND	ND	
Ethyl benzene	100-41-4	1.00	ND			ND			ND	ND		ND	ND	
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND	ND		ND	ND	
Isopropylbenzene	98-82-8	1.00	ND			ND			ND	ND		ND	ND	
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND	ND		ND	ND	
Methylene chloride	75-09-2	5.00	ND			ND			12.4	ND		12.0	ND	
Naphthalene	91-20-3	5.00	ND			ND			72.1	ND		71.2	ND	
n-Propylbenzene	103-65-1	1.00	ND			ND			ND	ND		ND	ND	

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.
 Location: **HER-GP09-GW**
 File #: BT188740

Collected: 08/13/03 10:47 Client
 Received: 08/13/03 12:00 JR
 Analysis: 08/13/03 20:01 MGJ
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007443

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		52.6	250	105	49.3	250	98.7	48.0	250	95.9	46.0	250	92.1
Dibromofluoromethane	1868-53-7		50.0	250	99.9	43.1	250	86.2	44.5	250	89.0	44.0	250	88.0
Toluene-d8	2037-26-5		54.9	250	110	55.0	250	110	54.7	250	109	54.2	250	108
4-Bromofluorobenzene	460-00-4		51.6	250	103	51.3	250	103	52.3	250	105	50.9	250	102

PQL is set as low point on the curve

Certified by: 
 Michael S. Bonner, Ph. D.
 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Compound Name	CAS Number	PQL* ug/L (ppb)	BT88745			BLANK			Matrix Spike(BT88747)			Matrix Spike Duplicate Spike		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery
Phenol	108-95-2	10.0	ND			38.93	150.00	25.95	6.68	150.00	4.45			
Bis(2-chloroethyl)ether	111-44-4	10.0	ND			ND	150.00	55.21	ND	150.00	55.21			
2-Chlorophenol	95-57-8	10.0	ND			82.81	150.00	37.60	ND	150.00	46.80			
1,3-Dichlorobenzene	541-73-1	10.0	ND			ND	100.00		ND	100.00				
1,4-Dichlorobenzene	106-46-7	10.0	ND			ND			ND					
Benzyl Alcohol	100-51-6	10.0	ND			ND			ND					
1,2-Dichlorobenzene	95-50-1	10.0	ND			ND			ND					
2-Methylphenol	95-48-7	10.0	ND			ND			ND					
Bis(2-chloroisopropyl)ether	108-60-1	10.0	ND			ND			ND					
4-Methylphenol	106-44-5	10.0	ND			ND			ND					
Hexachloroethane	67-72-1	10.0	ND			ND			ND					
N-Nitroso-di-N-propylamine	621-64-7	10.0	ND			ND			ND					
Nitrobenzene	98-95-3	10.0	ND			61.42	100.00	61.42	73.39	100.00	73.39			
Isophorone	78-59-1	10.0	ND			ND			ND					
2,4-Dimethylphenol	105-67-9	10.0	ND			ND			ND					
2-Nitrophenol	88-75-5	10.0	ND			ND			ND					
Benzoic Acid	65-85-0	10.0	ND			ND			ND					
Bis(2-chloroethoxy)methane	111-91-1	10.0	ND			ND			ND					
2,4-Dichlorophenol	120-83-2	10.0	ND			ND			ND					
1,2,4-Trichlorobenzene	120-82-1	10.0	ND			ND			ND					
Naphthalene	91-20-3	10.0	ND			40.94	100.00	40.94	50.75	100.00	50.75			
4-Chloroaniline	106-47-8	10.0	ND			ND			ND					
Hexachlorobutadiene	87-68-3	10.0	ND			ND			ND					
4-Chloro-3-methylphenol	59-50-7	10.0	ND			ND			ND					
2-Methylnaphthalene	91-57-6	10.0	ND			ND			ND					
Hexachlorocyclopentadiene	77-47-4	10.0	ND			ND			ND					
2,4,6-Trichlorophenol	88-06-2	10.0	ND			ND			ND					
2,4,5-Trichlorophenol	95-95-4	10.0	ND			ND			ND					
2-Chloronaphthalene	91-58-7	10.0	ND			ND			ND					
2-Nitroaniline	88-74-4	10.0	ND			ND			ND					
Dimethylphthalate	131-11-3	10.0	ND			ND			ND					
Acenaphthylene	208-96-8	10.0	ND			ND			ND					
2,6-Dinitrotoluene	606-20-2	10.0	ND			ND			ND					
3-Nitroaniline	99-09-2	10.0	ND			ND			ND					
Acenaphthene	83-32-9	10.0	ND			ND			ND					
2,4-Dinitrophenol	51-28-5	10.0	ND			59.25	100.00	59.25	64.64	100.00	64.64			
4-Nitrophenol	100-02-7	10.0	ND			ND			ND					
Dibenzofuran	132-64-9	10.0	ND			30.77	150.00	20.51	18.29	150.00	12.19			
2,4-Dinitrotoluene	121-14-2	10.0	ND			ND			ND					
Diethylphthalate	84-66-2	10.0	ND			73.18	100.00	73.18	76.06	100.00	76.06			
Fluorene	86-73-7	10.0	ND			ND			ND					
4-Chlorophenyl-phenylether	7005-72-3	10.0	ND			ND			ND					
4-Nitroaniline	100-01-6	10.0	ND			ND			ND					
4,6-Dinitro-2-methylphenol	534-52-1	10.0	ND			ND			ND					

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Compound Name	CAS Number	PQL* ug/L (ppb)	BT88745				BLANK				Matrix Spike				Matrix Spike Duplicate					
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
N-Nitrosodiphenylamine	86-30-6	10.0	ND			ND			ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	10.0	ND			ND			ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	10.0	ND			ND			ND			ND			ND			ND		
Pentachlorophenol	87-86-5	10.0	ND			ND			ND			ND			ND			ND		
Phenanthrene	85-01-8	10.0	ND			ND			ND			ND			ND			ND		
Anthracene	120-12-7	10.0	ND			ND			ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	10.0	ND			ND			ND			ND			ND			ND		
Fluoranthene	206-44-0	10.0	ND			ND			ND			ND			ND			ND		
Pyrene	129-00-0	10.0	ND			ND			ND			ND			ND			ND		
Butylbenzylphthalate	85-68-7	10.0	ND			ND			ND			ND			ND			ND		
Benzo(g)anthracene	56-55-3	10.0	ND			ND			ND			ND			ND			ND		
3,3'-Dichlorobenzidlene	91-94-1	10.0	ND			ND			ND			ND			ND			ND		
Chrysenes	218-01-9	10.0	ND			ND			ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	10.0	ND			ND			ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	10.0	ND			ND			ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	10.0	ND			ND			ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	10.0	ND			ND			ND			ND			ND			ND		
Benzo(e)pyrene	50-32-8	10.0	ND			ND			ND			ND			ND			ND		
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	ND			ND			ND			ND			ND			ND		
Dibenzo(a,h)anthracene	53-70-3	10.0	ND			ND			ND			ND			ND			ND		
Benzo(g,h,i)perylene	191-24-2	10.0	ND			ND			ND			ND			ND			ND		
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	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			42.38	200.00	21.19	70.09	200.00	35.05	46.24	200.00	23.12	1.24	200.00	0.62	1.24	200.00	0.62	46.24	200.00	23.12
Phenol-d5			37.41	200.00	18.71	49.78	200.00	24.89	37.40	200.00	18.70	5.97	200.00	2.99	5.97	200.00	2.99	37.40	200.00	18.70
Nitrobenzene-d5			58.55	100.00	58.55	60.18	100.00	60.18	58.22	100.00	58.22	70.40	100.00	70.40	100.00	70.40	70.40	70.40	100.00	70.40
2-Fluorobiphenyl			67.36	100.00	67.36	50.59	100.00	50.59	60.87	100.00	60.87	68.93	100.00	68.93	100.00	68.93	68.93	68.93	100.00	68.93
2,4,6-Tribromophenol			98.67	200.00	49.34	131.52	200.00	65.76	127.57	200.00	63.79	3.22	200.00	1.61	3.22	200.00	1.61	127.57	200.00	63.79
Terphenyl-d14			72.26	100.00	72.26	75.96	100.00	75.96	75.12	100.00	75.12	79.84	100.00	79.84	100.00	79.84	79.84	79.84	100.00	79.84

Client: Hercules
 Location: HER-GP09-GW
 File #: BT88745

Collection: 8/13/03 1328 Client
 Extraction: 8/18/03 800 WTD
 Analysis: 8/23/03 151 WTD
 Date: Time Analyst

Sample Type: Water
 Extraction Method: 3510C
 Analysis Method: 8270C

Certified by: Michael S. Bonner, Ph. D.
 Bonner Analytical Testing Company

*PQL is defined as the low point on the calibration curve.

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

Client: Hercules/Eco-Systems Collected: 08/13/03 10:47 Client: _____
 Sample ID: HER-GP09-GW Extracted: 08/15/03 9:45 Extraction Method: SW846_3510C
 File #: BT88740 Analyzed: 09/12/03 Analysis Method: Modified SW846
 Date: _____
 Analyst: _____

COMPOUNDS	POL ug/L (ppb)	SAMPLE		METHOD BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE					
		Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery			
Dioxenethion	0.400	ND			ND			4.55	5.00	93.4	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND			ND			5.30	5.00	87.0	4.43	5.00	93.0
Dioxathion (trans)	0.400	ND			ND			4.81	5.00	71.4	4.77	5.00	84.0
SURROGATE COMPOUNDS													
Naphthalene		4.00	Spiked Amount 5.00	% Recovery 80.0	Detected Amount 2.99	Spiked Amount 5.00	% Recovery 59.8	Detected Amount 4.55	Spiked Amount 5.00	% Recovery 91.0	Detected Amount 4.18	Spiked Amount 5.00	% Recovery 83.6

*POL's are the lowest point on the calibration curve

Michael S. Bonner

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

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702Z)			MATRIX SPIKE DUP (BT88703Z)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.7	250	119	59.3	250	119
Benzene	71-43-2	1.00	ND			ND			56.1	250	112	53.3	250	107
Trichloroethene	79-01-6	1.00	ND			ND			59.2	250	118	56.6	250	113
Toluene	108-88-3	1.00	ND			ND			39.8	250	79.6	56.5	250	113
Chlorobenzene	108-90-7	1.00	ND			ND			40.5	250	80.9	44.7	250	89.3
Bromobenzene	108-86-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromochloromethane	74-97-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromodichloromethane	75-27-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromoform	75-25-2	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Bromomethane	74-83-9	5.00	ND			ND			ND	ND	ND	ND	ND	ND
n-Butylbenzene	104-51-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Chloroethane	75-00-3	5.00	ND			ND			ND	ND	ND	ND	ND	ND
Chloroform	66-67-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Chloromethane	74-87-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Dibromochloromethane	124-48-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	96-12-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Dibromomethane	74-95-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Ethyl benzene	100-41-4	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	1.00	ND			ND			ND	ND	ND	ND	ND	ND
p-Isopropylbenzene	99-87-6	1.00	ND			ND			ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5.00	ND			ND			5.64	ND	ND	5.35	ND	5.35
Naphthalene	91-20-3	5.00	ND			ND			78.6	ND	ND	77.3	ND	77.3
n-Propylbenzene	103-65-1	1.00	ND			ND			ND	ND	ND	ND	ND	ND

Client: Eco Systems Inc.
 Location: **HER-GP10-GW**
 File #: BT88746

Collected: 08/13/03 14:45 Client
 Received: 08/13/03 16:35 JR
 Analyzed: 08/24/03 14:53 MGI
 Date Time Analyst

Sample Type: Water
 Analysis Method: 8260B
 Project Number: 007444

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP10-GW**

File #: BT88746

Collected: 08/13/03 14:45 Client

Received: 08/13/03 16:35 JR

Analysis: 08/24/03 14:53 MGJ

Date Time Analyst


Sample Type: Water

Analysis Method: 8260B

Project Number: 007444

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		45.3	250	90.6	54.0	250	108	52.2	250	104	53.0	250	106
Dibromofluoromethane	1868-53-7		47.0	250	93.9	50.9	250	102	54.0	250	108	57.9	250	116
Toluene-d8	2037-26-5		53.7	250	107	50.9	250	102	51.7	250	103	49.5	250	98.9
4-Bromofluorobenzene	460-00-4		55.9	250	112	55.8	250	112	50.3	250	101	48.6	250	97.2

PQL is set as low point on the curve

Certified by: 
 Michael S. Bonner, Ph. D.
 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Compound Name	CAS Number	PQL* ug/L (ppb)	BT88746			BLANK			Matrix Spike(BT88747)			Matrix Spike Duplicate		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery
Phenol	108-95-2	10.0	ND			38.93	150.00	25.95	6.68	150.00	4.45			
Bis(2-chloroethyl)ether	111-44-4	10.0	ND			ND	150.00	55.21	ND	150.00	55.21			
2-Chlorophenol	95-57-8	10.0	ND			82.81	150.00	37.60	ND	150.00	46.80			
1,3-Dichlorobenzene	541-73-1	10.0	ND			ND	100.00		ND	100.00				
1,4-Dichlorobenzene	106-46-7	10.0	ND			ND	100.00		ND	100.00				
Benzyl Alcohol	100-51-6	10.0	ND			ND	100.00		ND	100.00				
1,2-Dichlorobenzene	95-50-1	10.0	ND			ND	100.00		ND	100.00				
2-Methylphenol	95-48-7	10.0	ND			ND	100.00		ND	100.00				
Bis(2-chloroisopropyl)ether	108-60-1	10.0	ND			ND	100.00		ND	100.00				
4-Methylphenol	106-44-5	10.0	ND			ND	100.00		ND	100.00				
Hexachloroethane	67-72-1	10.0	ND			ND	100.00		ND	100.00				
N-Nitroso-di-N-propylamine	621-64-7	10.0	ND			ND	100.00		ND	100.00				
Nitrobenzene	98-95-3	10.0	ND			ND	100.00		ND	100.00				
Isophorone	78-59-1	10.0	ND			ND	100.00		ND	100.00				
2,4-Dimethylphenol	105-67-9	10.0	ND			ND	100.00		ND	100.00				
2-Nitrophenol	88-75-5	10.0	ND			ND	100.00		ND	100.00				
Benzoic Acid	65-85-0	10.0	ND			ND	100.00		ND	100.00				
Bis(2-chloroethoxy)methane	111-91-1	10.0	ND			ND	100.00		ND	100.00				
2,4-Dichlorophenol	120-83-2	10.0	ND			ND	100.00		ND	100.00				
1,2,4-Trichlorobenzene	120-82-1	10.0	ND			ND	100.00		ND	100.00				
Naphthalene	91-20-3	10.0	ND			ND	100.00		ND	100.00				
4-Chloroaniline	106-47-8	10.0	ND			ND	100.00		ND	100.00				
Hexachlorobutadiene	87-68-3	10.0	ND			ND	100.00		ND	100.00				
4-Chloro-3-methylphenol	59-50-7	10.0	ND			ND	100.00		ND	100.00				
2-Methylnaphthalene	91-57-6	10.0	ND			ND	100.00		ND	100.00				
Hexachlorocyclopentadiene	77-47-4	10.0	ND			ND	100.00		ND	100.00				
2,4,6-Trichlorophenol	88-06-2	10.0	ND			ND	100.00		ND	100.00				
2,4,5-Trichlorophenol	95-95-4	10.0	ND			ND	100.00		ND	100.00				
2-Chloronaphthalene	91-58-7	10.0	ND			ND	100.00		ND	100.00				
2-Nitroaniline	88-74-4	10.0	ND			ND	100.00		ND	100.00				
Dimethylphthalate	131-11-3	10.0	ND			ND	100.00		ND	100.00				
Acenaphthylene	208-96-8	10.0	ND			ND	100.00		ND	100.00				
2,6-Dinitrotoluene	606-20-2	10.0	ND			ND	100.00		ND	100.00				
3-Nitroaniline	99-09-2	10.0	ND			ND	100.00		ND	100.00				
Acenaphthene	83-32-9	10.0	ND			ND	100.00		ND	100.00				
2,4-Dinitrophenol	51-28-5	10.0	ND			ND	100.00		ND	100.00				
4-Nitrophenol	100-02-7	10.0	ND			ND	100.00		ND	100.00				
Dibenzofuran	132-64-9	10.0	ND			ND	100.00		ND	100.00				
2,4-Dinitrotoluene	121-14-2	10.0	ND			ND	100.00		ND	100.00				
Diethylphthalate	84-66-2	10.0	ND			ND	100.00		ND	100.00				
Fluorene	86-73-7	10.0	ND			ND	100.00		ND	100.00				
4-Chlorophenyl-phenylether	7005-72-3	10.0	ND			ND	100.00		ND	100.00				
4-Nitroaniline	100-01-6	10.0	ND			ND	100.00		ND	100.00				
4,6-Dinitro-2-methylphenol	534-52-1	10.0	ND			ND	100.00		ND	100.00				

Client: Hercules
 Location: HER-GP10-GW
 File #: BT88746

Collected: 8/13/03 1445 Client
 Extracted: 8/18/03 800 WTD
 Analyzed: 8/23/03 249 WTD
 Date Time Analyst

Sample Type: Water
 Extraction Method: 3510C
 Analysis Method: 8270C

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA


Compound Name	CAS Number	PQL* ug/L (ppb)	BT88746			BLANK			Matrix Spike			Matrix Spike Duplicate		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery	Detected Amount ng/ul in the extract	Amount ug	% Recovery
N-Nitrosodiphenylamine	86-30-6	10.0	ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	10.0	ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	10.0	ND			ND			ND			ND		
Pentachlorophenol	87-86-5	10.0	ND			ND			ND			ND		
Phenanthrene	85-01-8	10.0	ND			ND			ND			ND		
Anthracene	120-12-7	10.0	ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	10.0	ND			ND			ND			ND		
Fluoranthene	206-44-0	10.0	ND			ND			ND			ND		
Pyrene	129-00-0	10.0	ND			ND			ND			ND		
Butybenzylphthalate	85-68-7	10.0	ND			ND			ND			ND		
Benzo(a)anthracene	56-55-3	10.0	ND			ND			ND			ND		
3,3'-Dichlorobenzidene	91-94-1	10.0	ND			ND			ND			ND		
Chrysene	218-01-9	10.0	ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	10.0	ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	10.0	ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	10.0	ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	10.0	ND			ND			ND			ND		
Benzo(a)pyrene	50-32-8	10.0	ND			ND			ND			ND		
Indeno(1,2,3-c-d)pyrene	193-39-5	10.0	ND			ND			ND			ND		
Dibenz(a,h)anthracene	53-70-3	10.0	ND			ND			ND			ND		
Benzo(g,h,i)perylene	191-24-2	10.0	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			52.58	200.00	26.29	70.09	200.00	35.05	46.24	200.00	23.12	1.24	200.00	0.62
Phenol-d5			39.27	200.00	19.64	49.78	200.00	24.89	37.40	200.00	18.70	5.97	200.00	2.99
Nitrobenzene-d5			63.63	100.00	63.63	60.18	100.00	60.18	58.22	100.00	58.22	70.40	100.00	70.40
2-Fluorobiphenyl			69.72	100.00	69.72	50.59	100.00	50.59	60.87	100.00	60.87	68.93	100.00	68.93
2,4,6-Tribromophenol			117.13	200.00	58.57	131.52	200.00	65.76	127.57	200.00	63.79	3.22	200.00	1.61
Terphenyl-d14			66.70	100.00	66.70	75.96	100.00	75.96	75.12	100.00	75.12	79.84	100.00	79.84

Client: Herouites
 Location: HER-GP10-GW
 File #: BT88746

Collection: 8/13/03 1445 Client
 Extraction: 8/18/03 800 WTD
 Analysis: 8/24/03 249 WTD
 Date: Time Analyst

Sample Type: Water
 Extraction Method: 3510C
 Analysis Method: 8270C

*PQL is defined as the low point on the calibration curve.

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/Eco-Systems**
 Sample ID: **HER-GP10-GW**
 File #: **BT88746**

Collected: **08/13/03** 14:45 Client
 Extracted: **08/15/03** 9:45 SCF
 Analyzed: **09/12/03** SCF
 Date Analyst

Sample Type: **Water**
 Extraction Method: **SWB46_3510C**
 Analysis Method: **Modified SWB46**

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			MATRIX SPIKE			MATRIX SPIKE DUPLICATE		
		Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			4.55	5.00	93.4	4.85	5.00	99.8
Dioxathion (cis)	0.400	ND			ND			5.30	5.00	87.0	4.43	5.00	93.0
Dioxathion (trans)	0.400	ND			ND			4.81	5.00	71.4	4.77	5.00	84.0
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		4.51	5.00	90.2	2.99	5.00	59.8	4.55	5.00	91.0	4.18	5.00	83.6

*PQL's are the lowest point on the calibration curve

Certified by: 
 Michael S. Bonner, Ph.D.
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BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP11-GW**

File #: BT88748

Collected: 08/13/03

Received: 08/13/03

Analyzed: 08/24/03

14:28

16:35

13:13

Time

Sample Type: Water

Analysis Method: 8260B

Project Number: 007444

Client: JR
 Analyst: MGJ

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE (BT88702Z)			MATRIX SPIKE DUP (BT88703Z)		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery
1,1-Dichloroethene	75-35-4	5.00	ND			ND			59.7	250	119	59.3	250	119
Benzene	71-43-2	1.00	6.99			ND			56.1	250	112	53.3	250	107
Trichloroethene	79-01-6	1.00	ND			ND			59.2	250	118	56.6	250	113
Toluene	108-88-3	1.00	ND			ND			39.8	250	79.6	56.5	250	113
Chlorobenzene	108-90-7	1.00	ND			ND			40.5	250	80.9	44.7	250	89.3
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromomethane	75-25-2	1.00	ND			ND			ND			ND		
n-Butylbenzene	74-83-9	5.00	ND			ND			ND			ND		
sec-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	98-06-6	1.00	ND			ND			ND			ND		
Chloroethane	56-23-5	1.00	ND			ND			ND			ND		
Chloroform	75-00-3	5.00	ND			ND			ND			ND		
Chloromethane	66-67-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	74-87-3	1.00	ND			ND			ND			ND		
4-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
Dibromochloromethane	106-43-4	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromoethane	96-12-8	1.00	ND			ND			ND			ND		
Dibromomethane	106-93-4	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	74-95-3	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	106-46-7	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	5.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	107-06-2	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	5.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	5.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	5.00	ND			ND			5.64			5.35		
Naphthalene	91-20-3	5.00	ND			ND			78.6			77.3		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Eco Systems Inc.

Location: **HER-GP11-GW**

File #: 81188748

Collected: 08/13/03 14:28 Client

Received: 08/13/03 16:35 JR

Analysis: 08/24/03 13:13 MGJ Analyst

Sample Type: Water

Analysis Method: 8260B

Project Number: 007444

Compound Name	CAS Number	PQL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP					
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery	Detected Amount ug/L (ppb)	Amount ng	% Recovery			
Styrene	100-42-5	1.00	ND			ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	5.00	ND			ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	5.00	ND			ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	5.00	ND			ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	5.00	ND			ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.00	ND			ND			ND			ND			ND		
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
1,2-Dichloroethane-d4	17060-07-0		47.6	250	95.2	54.0	250	108	52.2	250	104	53.0	250	106	53.0	250	106
Dibromofluoromethane	1868-53-7		47.2	250	94.3	50.9	250	102	54.0	250	108	57.9	250	116	57.9	250	116
Toluene-d8	2037-26-5		52.1	250	104	50.9	250	102	51.7	250	103	49.5	250	98.9	49.5	250	98.9
4-Bromofluorobenzene	460-00-4		56.6	250	113	55.8	250	112	50.3	250	101	48.6	250	97.2	48.6	250	97.2

PQL is set as low point on the curve

Certified by:

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 Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
 QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
 BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Compound Name	CAS Number	PQL* ug/L (ppb)	BT88794			BLANK			Matrix Spikes (BT88747)			Matrix Spikes Duplicate		
			Detected Amount ug/L (ppb)	Spike Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ug	% Recovery	Detected Amount ng/ul in the extract	Spike Amount ug	% Recovery	Detected Amount ng/ul in the extract	Spike Amount ug	% Recovery
Phenol	108-95-2	10.0	ND			38.93	150.00	25.95	6.68	150.00	4.45			
Bis(2-chloroethyl)ether	111-44-4	10.0	ND			ND	150.00	55.21	ND	150.00	55.21			
2-Chlorophenol	95-57-8	10.0	ND			82.81	150.00	37.60	82.81	150.00	46.80			
1,3-Dichlorobenzene	541-73-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
1,4-Dichlorobenzene	106-46-7	10.0	ND			37.60	100.00	ND	46.80	100.00	ND			
Benzyl Alcohol	100-51-6	10.0	ND			ND	100.00	ND	ND	100.00	ND			
1,2-Dichlorobenzene	95-50-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2-Methylphenol	95-48-7	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Bis(2-chloroisopropyl)ether	108-60-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4-Methylphenol	106-44-5	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Hexachloroethane	67-72-1	10.0	ND			61.42	100.00	61.42	73.39	100.00	73.39			
N-Nitroso-di-N-propylamine	621-64-7	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Nitrobenzene	98-95-3	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Isophorone	78-59-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2,4-Dimethylphenol	105-67-9	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2-Nitrophenol	88-75-5	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Benzic Acid	65-85-0	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Bis(2-chloroethoxy)methane	111-91-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2,4-Dichlorophenol	120-83-2	10.0	ND			40.94	100.00	40.94	50.75	100.00	50.75			
1,2,4-Trichlorobenzene	120-82-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Naphthalene	91-20-3	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4-Chloroaniline	106-47-8	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Hexachlorobutadiene	87-68-3	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4-Chloro-3-methylphenol	59-50-7	10.0	ND			105.32	150.00	70.21	57.22	150.00	38.15			
2-Methylnaphthalene	91-57-6	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Hexachlorocyclopentadiene	77-47-4	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2,4,5-Trichlorophenol	88-06-2	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2,4,6-Trichlorophenol	95-95-4	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2-Chloronaphthalene	88-74-4	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2-Nitroaniline	131-11-3	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Dimethylphthalate	208-96-8	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Acenaphthylene	606-20-2	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2,6-Dinitrotoluene	99-09-2	10.0	ND			59.25	100.00	59.25	64.64	100.00	64.64			
3-Nitroaniline	83-32-9	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Acenaphthene	51-28-5	10.0	ND			30.77	150.00	20.51	18.29	150.00	12.19			
2,4-Dinitrophenol	100-02-7	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4-Nitrophenol	132-64-9	10.0	ND			73.18	100.00	73.18	76.06	100.00	76.06			
Dibenzofuran	121-14-2	10.0	ND			ND	100.00	ND	ND	100.00	ND			
2,4-Dinitrotoluene	84-66-2	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Diethylphthalate	86-73-7	10.0	ND			ND	100.00	ND	ND	100.00	ND			
Fluorene	7005-72-3	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4-Chlorophenyl-phenylether	100-01-6	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4-Nitroaniline	534-52-1	10.0	ND			ND	100.00	ND	ND	100.00	ND			
4,6-Dinitro-2-methylphenol		10.0	ND			ND	100.00	ND	ND	100.00	ND			

Client: Hercules
 Location: HER-GP11-GW
 File #: BT88794

Collected: 8/14/03 1145 Client
 Extracted: 8/18/03 800 WTD
 Analyzed: 8/22/03 2130 WTD
 Date: _____ Time: _____ Analyst: _____

Sample Type: Water
 Extraction Method: 3510C
 Analysis Method: 8270C