

**APPENDIX B**  
**LABORATORY ANALYTICAL RESULTS**

## ANALYTICAL REPORT

Job Number: 680-36879-1

Job Description: Hercules Hattiesburg 2Q08 - May 2008

For:

Hercules Inc.  
Research Center - Bldg 8139/15  
500 Hercules Road  
Wilmington, DE 19808-1599  
Attention: Mr. Timothy Hassett



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Lidya Gulizia  
Project Manager I  
lidya.gulizia@testamericainc.com  
06/11/2008

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**Job Narrative**  
**680-J36879-1**

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: The surrogate Dibromofluoromethane recovered high outside of control limits in the straight run of client sample HER-MW14-051508 (680-36879-22). The sample was reanalyzed at a 1:50 dilution for target analytes and all associated QC passed.

Method(s) 8260B: The following sample(s) required a dilution which was performed outside of the analytical holding time:  
HER-MW14-051508 (680-36879-22).

No other analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.

**Comments**

No additional comments.

## METHOD SUMMARY

Client: Hercules Inc.

Job Number: 680-36879-1

<b>Description</b>		<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix</b>	<b>Water</b>			
Volatile Organic Compounds by GC/MS		TAL SAV	SW846 8260B	
Purge-and-Trap		TAL SAV		SW846 5030B

### Lab References:

TAL SAV = TestAmerica Savannah

### Method References:

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

**METHOD / ANALYST SUMMARY**

Client: Hercules Inc.

Job Number: 680-36879-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B	Bearden, Robert	RB
SW846 8260B	Graham, Demetri	DG
SW846 8260B	Lui, Chung	CL

## SAMPLE SUMMARY

Client: Hercules Inc.

Job Number: 680-36879-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-36879-1	HER-CM00-051308	Water	05/13/2008 1535	05/17/2008 0945
680-36879-2	HER-CM01-051308	Water	05/13/2008 1525	05/17/2008 0945
680-36879-3	HER-CM02-051308	Water	05/13/2008 1515	05/17/2008 0945
680-36879-4	HER-CM03-051308	Water	05/13/2008 1505	05/17/2008 0945
680-36879-5	HER-CM04-051308	Water	05/13/2008 1450	05/17/2008 0945
680-36879-6	HER-CM05-051308	Water	05/13/2008 1440	05/17/2008 0945
680-36879-7RB	HER-RS1-051308	Water	05/13/2008 1500	05/17/2008 0945
680-36879-8RB	HER-RS2-051408	Water	05/14/2008 0930	05/17/2008 0945
680-36879-9RB	HER-RS3-051508	Water	05/15/2008 1225	05/17/2008 0945
680-36879-10	HER-MW04-051408	Water	05/14/2008 1100	05/17/2008 0945
680-36879-11	HER-MW03-051408	Water	05/14/2008 0905	05/17/2008 0945
680-36879-11MS	HER-MW03-051408	Water	05/14/2008 0905	05/17/2008 0945
680-36879-11MSD	HER-MW03-051408	Water	05/14/2008 0905	05/17/2008 0945
680-36879-12	HER-MW02-051408	Water	05/14/2008 0935	05/17/2008 0945
680-36879-13	HER-MW05-051408	Water	05/14/2008 1220	05/17/2008 0945
680-36879-14	HER-MW06-051408	Water	05/14/2008 1400	05/17/2008 0945
680-36879-15	HER-MW07-051508	Water	05/15/2008 1230	05/17/2008 0945
680-36879-16	HER-MW08-051608	Water	05/16/2008 1015	05/17/2008 0945
680-36879-17	HER-MW09-051608	Water	05/16/2008 0925	05/17/2008 0945
680-36879-18	HER-MW10-051408	Water	05/14/2008 1030	05/17/2008 0945
680-36879-19	HER-MW11-051408	Water	05/14/2008 1135	05/17/2008 0945
680-36879-20	HER-MW12-051408	Water	05/14/2008 1330	05/17/2008 0945
680-36879-21	HER-MW13-051508	Water	05/15/2008 1525	05/17/2008 0945
680-36879-22	HER-MW14-051508	Water	05/15/2008 1440	05/17/2008 0945
680-36879-23	HER-MW15-051508	Water	05/15/2008 1400	05/17/2008 0945
680-36879-24	HER-MW16-051508	Water	05/15/2008 1320	05/17/2008 0945
680-36879-24MS	HER-MW16-051508	Water	05/15/2008 1320	05/17/2008 0945
680-36879-24MSD	HER-MW16-051508	Water	05/15/2008 1320	05/17/2008 0945
680-36879-25	HER-MW17-051608	Water	05/16/2008 1105	05/17/2008 0945
680-36879-26	HER-MW18-051408	Water	05/14/2008 1430	05/17/2008 0945
680-36879-27	HER-MW19-051408	Water	05/14/2008 1500	05/17/2008 0945
680-36879-28FD	HER-FD1-051408	Water	05/14/2008 0000	05/17/2008 0945
680-36879-29FD	HER-FD2-051508	Water	05/15/2008 0000	05/17/2008 0945
680-36879-30TB	TB1	Water	05/15/2008 0000	05/17/2008 0945
680-36879-31TB	TB2	Water	05/15/2008 0000	05/17/2008 0945

# SAMPLE RESULTS

Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM00-051308

Lab Sample ID: 680-36879-1

Client Matrix: Water

Date Sampled: 05/13/2008 1535

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2856.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1453

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1453

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



**Analytical Data**

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM00-051308

Lab Sample ID: 680-36879-1

Date Sampled: 05/13/2008 1535

Client Matrix: Water

Date Received: 05/17/2008 0945

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2856.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1453

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1453

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	98		75 - 121
Toluene-d8 (Surr)	99		75 - 120

Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM01-051308

Lab Sample ID: 680-36879-2

Client Matrix: Water

Date Sampled: 05/13/2008 1525

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2857.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1513

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1513

Final Weight/Volume: 5 mL

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

**Analytical Data**

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM01-051308

Lab Sample ID: 680-36879-2

Client Matrix: Water

Date Sampled: 05/13/2008 1525

Date Received: 05/17/2008 0945

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2857.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1513

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1513

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
<b>Surrogate</b>	<b>%Rec</b>		<b>Acceptance Limits</b>
4-Bromofluorobenzene	99		75 - 120
Dibromofluoromethane	100		75 - 121
Toluene-d8 (Surr)	98		75 - 120

# Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM02-051308

Lab Sample ID: 680-36879-3

Client Matrix: Water

Date Sampled: 05/13/2008 1515

Date Received: 05/17/2008 0945

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2858.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1532

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1532

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

## Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM02-051308

Lab Sample ID: 680-36879-3

Client Matrix: Water

Date Sampled: 05/13/2008 1515

Date Received: 05/17/2008 0945

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2858.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1532

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1532

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
<b>Surrogate</b>			
	%Rec		Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	98		75 - 120

# Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM03-051308

Lab Sample ID: 680-36879-4

Client Matrix: Water

Date Sampled: 05/13/2008 1505

Date Received: 05/17/2008 0945

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2859.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1552

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1552

Analyte	Result (ug/L)	Qualifier	RL
Acetone	<25		25
Acetonitrile	<40		40
Acrolein	<20		20
Acrylonitrile	<20		20
Benzene	1.9		20
Dichlorobromomethane	<1.0		1.0
Bromoform	<1.0		1.0
Bromomethane	<1.0		1.0
2-Butanone (MEK)	<10		10
Carbon disulfide	<2.0		2.0
Carbon tetrachloride	<1.0		1.0
Chlorobenzene	<1.0		1.0
Chloroethane	<1.0		1.0
Chloroform	<1.0		1.0
Chloromethane	<1.0		1.0
2-Chloro-1,3-butadiene	<1.0		1.0
3-Chloro-1-propene	<1.0		1.0
Chlorodibromomethane	<1.0		1.0
1,2-Dibromo-3-Chloropropane	<1.0		1.0
Ethylene Dibromide	<1.0		1.0
Dibromomethane	<1.0		1.0
trans-1,4-Dichloro-2-butene	<2.0		2.0
Dichlorodifluoromethane	<1.0		1.0
1,1-Dichloroethane	<1.0		1.0
1,2-Dichloroethane	<1.0		1.0
1,1-Dichloroethene	<1.0		1.0
cis-1,2-Dichloroethene	<1.0		1.0
trans-1,2-Dichloroethene	<1.0		1.0
1,2-Dichloropropane	<1.0		1.0
cis-1,3-Dichloropropene	<1.0		1.0
trans-1,3-Dichloropropene	<1.0		1.0
Ethylbenzene	<1.0		1.0
Ethyl methacrylate	<1.0		1.0
2-Hexanone	<10		10
Iodomethane	<5.0		5.0
Isobutyl alcohol	<40		40
Methacrylonitrile	<20		20
Methylene Chloride	<5.0		5.0
Methyl methacrylate	<1.0		1.0
4-Methyl-2-pentanone (MIBK)	<10		10
Pentachloroethane	<5.0		5.0
Propionitrile	<20		20
Styrene	<1.0		1.0
1,1,1,2-Tetrachloroethane	<1.0		1.0

Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM03-051308

Lab Sample ID: 680-36879-4

Client Matrix: Water

Date Sampled: 05/13/2008 1505

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2859.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1552

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1552

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	100		75 - 121
Toluene-d8 (Surr)	100		75 - 120

## Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM04-051308

Lab Sample ID: 680-36879-5

Client Matrix: Water

Date Sampled: 05/13/2008 1450

Date Received: 05/17/2008 0945

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2860.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1612

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1612

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



Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM04-051308

Lab Sample ID: 680-36879-5

Client Matrix: Water

Date Sampled: 05/13/2008 1450

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2860.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1612

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1612

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	95		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	102		75 - 120

# Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM05-051308

Lab Sample ID: 680-36879-6

Client Matrix: Water

Date Sampled: 05/13/2008 1440

Date Received: 05/17/2008 0945

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2861.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1632

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1632

Final Weight/Volume: 5 mL

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

**Analytical Data**

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-CM05-051308

Lab Sample ID: 680-36879-6

Client Matrix: Water

Date Sampled: 05/13/2008 1440

Date Received: 05/17/2008 0945

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2861.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1632

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1632

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
<b>Surrogate</b>	<b>%Rec</b>		<b>Acceptance Limits</b>
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	101		75 - 121
Toluene-d8 (Surr)	100		75 - 120

# Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-RS1-051308

Lab Sample ID: 680-36879-7RB

Client Matrix: Water

Date Sampled: 05/13/2008 1500

Date Received: 05/17/2008 0945

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2862.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 1651

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1651

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

**Analytical Data**

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-RS1-051308

Lab Sample ID: 680-36879-7RB

Client Matrix: Water

Date Sampled: 05/13/2008 1500

Date Received: 05/17/2008 0945

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2862.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1651

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1651

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	4.9		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		1.0
Vinyl chloride	<1.0		2.0
Xylenes, Total	<2.0		1.0
			2.0
Surrogate	%Rec	Acceptance Limits	
4-Bromofluorobenzene	98	75 - 120	
Dibromofluoromethane	99	75 - 121	
Toluene-d8 (Surr)	101	75 - 120	

Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-RS2-051408

Lab Sample ID: 680-36879-8RB

Client Matrix: Water

Date Sampled: 05/14/2008 0930

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107019

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0177.d

Dilution: 1.0

Date Analyzed: 05/25/2008 0325

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 0325

Final Weight/Volume: 5 mL

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

**Analytical Data**

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: **HER-RS2-051408**

Lab Sample ID: 680-36879-8RB

Client Matrix: Water

Date Sampled: 05/14/2008 0930

Date Received: 05/17/2008 0945

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-107019

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0177.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 0325

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 0325

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	4.6		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
<b>Surrogate</b>	<b>%Rec</b>		<b>Acceptance Limits</b>
4-Bromofluorobenzene	103		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	102		75 - 120

# Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-RS3-051508

Lab Sample ID: 680-36879-9RB

Client Matrix: Water

Date Sampled: 05/15/2008 1225

Date Received: 05/17/2008 0945

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2863.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1711

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1711

Final Weight/Volume: 5 mL

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



**Analytical Data**

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: **HER-RS3-051508**

Lab Sample ID: 680-36879-9RB

Client Matrix: Water

Date Sampled: 05/15/2008 1225

Date Received: 05/17/2008 0945

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-107071

Instrument ID: GC/MS Volatiles - O

Preparation: 5030B

Lab File ID: o2863.d

Dilution: 1.0

Date Analyzed: 05/25/2008 1711

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 1711

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	2.6		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		1.0
Vinyl chloride	<1.0		2.0
Xylenes, Total	<2.0		1.0
			2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	79		75 - 120

Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-MW04-051408

Lab Sample ID: 680-36879-10

Client Matrix: Water

Date Sampled: 05/14/2008 1100

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107019

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0178.d

Dilution: 1.0

Date Analyzed: 05/25/2008 0345

Initial Weight/Volume: 5 mL

Date Prepared: 05/25/2008 0345

Final Weight/Volume: 5 mL

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

Analytical Data

Client: Hercules Inc.

Job Number: 680-36879-1

Client Sample ID: HER-MW04-051408

Lab Sample ID: 680-36879-10

Client Matrix: Water

Date Sampled: 05/14/2008 1100

Date Received: 05/17/2008 0945

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-107019

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0178.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 05/25/2008 0345

Final Weight/Volume: 5 mL

Date Prepared: 05/25/2008 0345

Analyte	Result (ug/L)	Qualifier	RL
1,1,2,2-Tetrachloroethane	<1.0		1.0
Tetrachloroethene	<1.0		1.0
Toluene	<1.0		1.0
1,1,1-Trichloroethane	<1.0		1.0
1,1,2-Trichloroethane	<1.0		1.0
Trichloroethene	<1.0		1.0
Trichlorofluoromethane	<1.0		1.0
1,2,3-Trichloropropane	<1.0		1.0
Vinyl acetate	<2.0		2.0
Vinyl chloride	<1.0		1.0
Xylenes, Total	<2.0		2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	111		75 - 120
Dibromofluoromethane	104		75 - 121
Toluene-d8 (Surr)	101		75 - 120