

## ANALYTICAL REPORT

Job Number: 280-4055-1

SDG Number: 200240886 // Terracon # 25087038

Job Description: Lambertson Complaint

For:

Terracon Consulting Eng & Scientists  
10625 W I-70 Frontage Rd. N.  
Wheatridge, CO 80033  
Attention: John Dellaport



Approved for release.  
Lori A Parsons  
Project Manager I  
6/21/2010 10:37 AM

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06/21/2010

cc: Jared C Geissler

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

**TestAmerica Laboratories, Inc.**

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## **CASE NARRATIVE**

**Client: Terracon Consulting Eng & Scientists**

**Project: Lambertson Complaint**

**Report Number: 280-4055-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 06/03/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples LAKE 1 (280-4055-1), IRRIGATION WELL 1 (280-4055-2) and TRIP BLANK (280-4055-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/07/2010.

The MS/MSD was performed on an unrelated sample and exhibited percent recoveries in the MSD below the control limits for ethylbenzene, m&p-xylene, o-xylene, and xylenes, total. The acceptable LCS and Method Blank analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

### **SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/06/2010 and analyzed on 06/10/2010.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 280-18218/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The Method Blank exhibited a surrogate recovery below the control limits for 2-fluorobiphenyl. The MS/MSD exhibited percent recoveries below the control limits for 2-fluorobiphenyl, 2,4,6-tribromophenol, terphenyl-d14, and phenol-d5. The laboratory noted a presence of matrix interference in the MS/MSD was evident. The associated samples and LCS were in control for all surrogates.

The MS/MSD associated with analytical batch 19069 was performed on an unrelated sample and exhibited multiple percent recoveries and RPD values outside the control limits for multiple compounds. Matrix interference was suspected. The acceptable LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

### **DISSOLVED GASES**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for dissolved gases in accordance with RSK\_175. The samples were analyzed on 06/11/2010.

TestAmerica Denver's practice for the reporting of dual column data is to report the results from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes are reported as PRIMARY on the Sample Datasheets.

No difficulties were encountered during the dissolved gases analyses.

All quality control parameters were within the acceptance limits.

#### **TOTAL METALS**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/07/2010 and analyzed on 06/08/2010.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

#### **ANIONS**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 06/08/2010.

Sample LAKE 1 (280-4055-1)[10X] required dilution prior to analysis for chloride and sulfate. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

#### **NITRATE-NITRITE AS NITROGEN**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 06/17/2010.

No difficulties were encountered during the nitrate-nitrite analyses.

All quality control parameters were within the acceptance limits.

#### **ALKALINITY**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 06/09/2010.

No difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

#### **SPECIFIC CONDUCTIVITY**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 06/07/2010 and 06/11/2010.

No difficulties were encountered during the specific conductivity analyses.

All quality control parameters were within the acceptance limits.

#### **TOTAL DISSOLVED SOLIDS**

Samples LAKE 1 (280-4055-1) and IRRIGATION WELL 1 (280-4055-2) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 06/04/2010.

Total Dissolved Solids was detected in method blank MB 280-18037/1 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the TDS analyses.

All other quality control parameters were within the acceptance limits.

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-4055-1SDG No.: 200240886 // Terracon # 25087038Instrument ID: MSV\_G2 Analysis Batch Number: 12800Lab Sample ID: IC 280-12800/2 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/10 23:33 Lab File ID: g2\_0138.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.71	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:54

Lab Sample ID: IC 280-12800/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/10 23:54 Lab File ID: g2\_0139.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.70	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:54

Lab Sample ID: IC 280-12800/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/27/10 00:15 Lab File ID: g2\_0140.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.71	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:54

Lab Sample ID: IC 280-12800/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/27/10 00:36 Lab File ID: g2\_0141.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.71	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:55

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-4055-1SDG No.: 200240886 // Terracon # 25087038Instrument ID: MSV\_G2 Analysis Batch Number: 12800Lab Sample ID: IC 280-12800/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/27/10 00:58 Lab File ID: g2\_0142.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.70	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:55

Lab Sample ID: IC 280-12800/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/27/10 01:19 Lab File ID: g2\_0143.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.71	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:55

Lab Sample ID: IC 280-12800/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/27/10 01:40 Lab File ID: g2\_0144.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	7.71	Analyte Misidentified by the Data System	tinkhams	05/08/10 16:56

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-4055-1SDG No.: 200240886 // Terracon # 25087038Instrument ID: MSV\_G2 Analysis Batch Number: 18362Lab Sample ID: CCV 280-18362/2 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/07/10 06:44 Lab File ID: g2\_1761.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	5.27	Split Peak	dobransky m	06/07/10 07:39
Tert-butyl alcohol (2-methyl-2-propanol)	6.04	Split Peak	dobransky m	06/07/10 07:40

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-4055-1SDG No.: 200240886 // Terracon # 25087038Instrument ID: MSS\_D Analysis Batch Number: 15772Lab Sample ID: IC 280-15772/2 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/15/10 07:57 Lab File ID: D5023.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a-Dimethylphenethylamine	5.16	Split Peak	hoffmanm	05/15/10 10:25

Lab Sample ID: IC 280-15772/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/15/10 08:16 Lab File ID: D5024.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a-Dimethylphenethylamine	5.17	Split Peak	hoffmanm	05/15/10 10:26

Lab Sample ID: IC 280-15772/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/15/10 08:34 Lab File ID: D5025.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a-Dimethylphenethylamine	5.17	Split Peak	hoffmanm	05/15/10 10:27

Lab Sample ID: ICIS 280-15772/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/15/10 09:01 Lab File ID: D5026.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a-Dimethylphenethylamine	5.17	Split Peak	hoffmanm	05/15/10 10:28

## GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-4055-1SDG No.: 200240886 // Terracon # 25087038Instrument ID: GCV\_J Analysis Batch Number: 19109Lab Sample ID: CCV 280-19109/14 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/11/10 12:15 Lab File ID: 017F1701.D GC Column: RT-3PLOT ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.71	Baseline Event	knabec	06/14/10 10:22
Ethylene	2.21	Baseline Event	knabec	06/14/10 10:22
AcetyleneEthane	2.42	Baseline Event	knabec	06/14/10 10:22

## SAMPLE SUMMARY

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-4055-1	LAKE 1	Water	06/02/2010 1605	06/03/2010 0839
280-4055-2	IRRIGATION WELL 1	Water	06/02/2010 1630	06/03/2010 0839
280-4055-3	TRIP BLANK	Water	06/02/2010 0000	06/03/2010 0839

## EXECUTIVE SUMMARY - Detections

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>280-4055-1 LAKE 1</b>					
Bis(2-ethylhexyl) phthalate		3.2 J B	9.4	ug/L	8270C
Methane		33	5.0	ug/L	RSK-175
Calcium		56000	200	ug/L	6010B
Iron		130	100	ug/L	6010B
Potassium		34000	3000	ug/L	6010B
Magnesium		37000	200	ug/L	6010B
Manganese		8.1 J	10	ug/L	6010B
Sodium		250000	1000	ug/L	6010B
Bromide		1.1	0.20	mg/L	300.0
Chloride		240	30	mg/L	300.0
Fluoride		0.66	0.50	mg/L	300.0
Sulfate		340	50	mg/L	300.0
Alkalinity		190	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO <sub>3</sub>		110	5.0	mg/L	SM 2320B
Carbonate Alkalinity as CaCO <sub>3</sub>		79	5.0	mg/L	SM 2320B
Specific Conductance		1700	2.0	umhos/cm	SM 2510B
Total Dissolved Solids		1100 B	10	mg/L	SM 2540C
<b>280-4055-2 IRRIGATION WELL 1</b>					
Calcium		56000	200	ug/L	6010B
Potassium		7000	3000	ug/L	6010B
Magnesium		11000	200	ug/L	6010B
Manganese		0.66 J	10	ug/L	6010B
Sodium		43000	1000	ug/L	6010B
Selenium		5.0 J	15	ug/L	6010B
Bromide		0.32	0.20	mg/L	300.0
Chloride		35	3.0	mg/L	300.0
Fluoride		0.35 J	0.50	mg/L	300.0
Sulfate		44	5.0	mg/L	300.0
Nitrate Nitrite as N		6.2	0.10	mg/L	353.2
Alkalinity		190	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO <sub>3</sub>		190	5.0	mg/L	SM 2320B
Specific Conductance		570	2.0	umhos/cm	SM 2510B
Total Dissolved Solids		400 B	10	mg/L	SM 2540C

## METHOD SUMMARY

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL DEN	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL DEN		SW846 3520C
Dissolved Gases (GC)	TAL DEN	RSK RSK-175	
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Metals	TAL DEN		SW846 3010A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Conductivity, Specific Conductance	TAL DEN	SM SM 2510B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	

### Lab References:

TAL DEN = TestAmerica Denver

### Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

## METHOD / ANALYST SUMMARY

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 8270C	Hoffman, Michael G	MGH
RSK RSK-175	Knabe, Christopher	CK
SW846 6010B	Harre, John K	JKH
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 353.2	Jarusewic, Lara E	LEJ
SM SM 2320B	Derosia, Marcia R	MRD
SM SM 2510B	Derosia, Marcia R	MRD
SM SM 2540C	Domnick, Brandon J	BJD

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

Client Sample ID: LAKE 1

Lab Sample ID: 280-4055-1  
Client Matrix: Water

Date Sampled: 06/02/2010 1605  
Date Received: 06/03/2010 0839

### 8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-18362	Instrument ID:	MSV_G2
Preparation:	5030B		Lab File ID:	g2_1787.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	06/07/2010 1559		Final Weight/Volume:	20 mL
Date Prepared:	06/07/2010 1559			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.16	1.0
Ethylbenzene	ND		0.16	1.0
Toluene	ND		0.17	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
o-Xylene	ND		0.19	1.0
Xylenes, Total	ND		0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 118
Dibromofluoromethane (Surr)	102		77 - 119

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

Client Sample ID: IRRIGATION WELL 1

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

### 8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-18362	Instrument ID:	MSV_G2
Preparation:	5030B		Lab File ID:	g2_1788.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	06/07/2010 1620		Final Weight/Volume:	20 mL
Date Prepared:	06/07/2010 1620			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.16	1.0
Ethylbenzene	ND		0.16	1.0
Toluene	ND		0.17	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
o-Xylene	ND		0.19	1.0
Xylenes, Total	ND		0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
Toluene-d8 (Surr)	92		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 118
Dibromofluoromethane (Surr)	99		77 - 119

**Analytical Data**

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID: TRIP BLANK**

Lab Sample ID: 280-4055-3

Date Sampled: 06/02/2010 0000

Client Matrix: Water

Date Received: 06/03/2010 0839

**8260B Volatile Organic Compounds (GC/MS)**

Method:	8260B	Analysis Batch: 280-18362	Instrument ID:	MSV_G2
Preparation:	5030B		Lab File ID:	g2_1789.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	06/07/2010 1641		Final Weight/Volume:	20 mL
Date Prepared:	06/07/2010 1641			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.16	1.0
Ethylbenzene	ND		0.16	1.0
Toluene	ND		0.17	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
o-Xylene	ND		0.19	1.0
Xylenes, Total	ND		0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	104		78 - 118
Dibromofluoromethane (Surr)	106		77 - 119

**Analytical Data**

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID: LAKE 1**

Lab Sample ID: 280-4055-1

Date Sampled: 06/02/2010 1605

Client Matrix: Water

Date Received: 06/03/2010 0839

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

Method:	8270C	Analysis Batch: 280-19069	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-18218	Lab File ID:	D5606.D
Dilution:	1.0		Initial Weight/Volume:	1059 mL
Date Analyzed:	06/10/2010 1807		Final Weight/Volume:	1000 uL
Date Prepared:	06/06/2010 1428		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bis(2-chloroethoxy)methane	ND		0.92	9.4
Bis(2-chloroethyl)ether	ND		0.39	9.4
Bis(2-ethylhexyl) phthalate	3.2	J B	0.53	9.4
2,2'-oxybis[1-chloropropane]	ND		0.26	9.4
Acenaphthene	ND		0.26	3.8
Acenaphthylene	ND		0.46	3.8
Acetophenone	ND		0.23	9.4
Anthracene	ND		0.40	3.8
Atrazine	ND		0.69	9.4
Benzidine	ND		47	94
Benzo[a]anthracene	ND		0.33	3.8
Benzo[a]pyrene	ND		0.29	3.8
Benzo[b]fluoranthene	ND		0.50	3.8
Benzo[g,h,i]perylene	ND		0.47	3.8
Benzo[k]fluoranthene	ND		0.43	3.8
Butyl benzyl phthalate	ND		0.94	3.8
Caprolactam	ND		4.7	9.4
Carbazole	ND		0.41	3.8
Chrysene	ND		0.51	3.8
Di-n-butyl phthalate	ND		1.1	3.8
Di-n-octyl phthalate	ND		0.33	3.8
Dibenz(a,h)anthracene	ND		0.48	3.8
Dibenzofuran	ND		0.27	3.8
Diethyl phthalate	ND		0.36	3.8
Dimethyl phthalate	ND		0.20	3.8
Fluoranthene	ND		0.19	3.8
Fluorene	ND		0.29	3.8
Hexachlorobenzene	ND		0.62	9.4
Hexachlorobutadiene	ND		3.1	9.4
Hexachlorocyclopentadiene	ND		1.4	47
Hexachloroethane	ND		2.0	9.4
Indeno[1,2,3-cd]pyrene	ND		0.61	3.8
N-Nitrosodi-n-propylamine	ND		0.33	9.4
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.42	9.4
Naphthalene	ND		0.27	3.8
Nitrobenzene	ND		0.76	9.4
Pentachlorophenol	ND		19	47
Phenanthrene	ND		0.25	3.8
Phenol	ND		1.9	9.4
Pyrene	ND		0.35	9.4
2-Chloronaphthalene	ND		0.25	3.8
2-Chlorophenol	ND		1.9	9.4
2-Methylnaphthalene	ND		0.27	3.8
2-Methylphenol	ND		0.93	9.4
2-Nitroaniline	ND		1.6	9.4
2-Nitrophenol	ND		0.37	9.4

# Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

Client Sample ID: LAKE 1

Lab Sample ID: 280-4055-1

Date Sampled: 06/02/2010 1605

Client Matrix: Water

Date Received: 06/03/2010 0839

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

Method:	8270C	Analysis Batch: 280-19069	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-18218	Lab File ID:	D5606.D
Dilution:	1.0		Initial Weight/Volume:	1059 mL
Date Analyzed:	06/10/2010 1807		Final Weight/Volume:	1000 uL
Date Prepared:	06/06/2010 1428		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-Dichlorophenol	ND		0.60	9.4
2,4-Dimethylphenol	ND		0.55	9.4
2,4-Dinitrophenol	ND		9.4	28
2,4-Dinitrotoluene	ND		1.6	9.4
2,4,5-Trichlorophenol	ND		0.42	9.4
2,4,6-Trichlorophenol	ND		0.27	9.4
2,6-Dinitrotoluene	ND		1.8	9.4
3-Nitroaniline	ND		0.25	9.4
3,3'-Dichlorobenzidine	ND		1.9	47
4-Bromophenyl phenyl ether	ND		0.41	9.4
4-Chloro-3-methylphenol	ND		2.3	9.4
4-Chloroaniline	ND		2.0	9.4
4-Chlorophenyl phenyl ether	ND		1.6	9.4
3 & 4 Methylphenol	ND		0.24	9.4
4-Nitroaniline	ND		1.9	9.4
4-Nitrophenol	ND		1.2	9.4
4,6-Dinitro-2-methylphenol	ND		3.8	47
Cresols, Total	ND		0.24	9.4
1,4-Dichlorobenzene	ND		0.30	3.8
1,2,4-Trichlorobenzene	ND		0.26	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		48 - 120
2-Fluorophenol	69		51 - 120
2-Fluorobiphenyl	60		46 - 120
2,4,6-Tribromophenol	72		57 - 120
Terphenyl-d14	71		61 - 120
Phenol-d5	71		51 - 120

**Analytical Data**

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID: IRRIGATION WELL 1**

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

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

Method:	8270C	Analysis Batch: 280-19069	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-18218	Lab File ID:	D5607.D
Dilution:	1.0		Initial Weight/Volume:	1062 mL
Date Analyzed:	06/10/2010 1826		Final Weight/Volume:	1000 uL
Date Prepared:	06/06/2010 1428		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bis(2-chloroethoxy)methane	ND		0.91	9.4
Bis(2-chloroethyl)ether	ND		0.39	9.4
Bis(2-ethylhexyl) phthalate	ND		0.53	9.4
2,2'-oxybis[1-chloropropane]	ND		0.26	9.4
Acenaphthene	ND		0.26	3.8
Acenaphthylene	ND		0.46	3.8
Acetophenone	ND		0.23	9.4
Anthracene	ND		0.40	3.8
Atrazine	ND		0.69	9.4
Benzidine	ND		47	94
Benzo[a]anthracene	ND		0.33	3.8
Benzo[a]pyrene	ND		0.29	3.8
Benzo[b]fluoranthene	ND		0.50	3.8
Benzo[g,h,i]perylene	ND		0.47	3.8
Benzo[k]fluoranthene	ND		0.43	3.8
Butyl benzyl phthalate	ND		0.94	3.8
Caprolactam	ND		4.7	9.4
Carbazole	ND		0.40	3.8
Chrysene	ND		0.51	3.8
Di-n-butyl phthalate	ND		1.1	3.8
Di-n-octyl phthalate	ND		0.33	3.8
Dibenz(a,h)anthracene	ND		0.48	3.8
Dibenzofuran	ND		0.27	3.8
Diethyl phthalate	ND		0.36	3.8
Dimethyl phthalate	ND		0.20	3.8
Fluoranthene	ND		0.19	3.8
Fluorene	ND		0.29	3.8
Hexachlorobenzene	ND		0.62	9.4
Hexachlorobutadiene	ND		3.1	9.4
Hexachlorocyclopentadiene	ND		1.4	47
Hexachloroethane	ND		2.0	9.4
Indeno[1,2,3-cd]pyrene	ND		0.61	3.8
N-Nitrosodi-n-propylamine	ND		0.33	9.4
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.41	9.4
Naphthalene	ND		0.27	3.8
Nitrobenzene	ND		0.76	9.4
Pentachlorophenol	ND		19	47
Phenanthrene	ND		0.24	3.8
Phenol	ND		1.9	9.4
Pyrene	ND		0.35	9.4
2-Chloronaphthalene	ND		0.24	3.8
2-Chlorophenol	ND		1.9	9.4
2-Methylnaphthalene	ND		0.27	3.8
2-Methylphenol	ND		0.92	9.4
2-Nitroaniline	ND		1.6	9.4
2-Nitrophenol	ND		0.37	9.4

**Analytical Data**

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID: IRRIGATION WELL 1**

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

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

Method:	8270C	Analysis Batch: 280-19069	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-18218	Lab File ID:	D5607.D
Dilution:	1.0		Initial Weight/Volume:	1062 mL
Date Analyzed:	06/10/2010 1826		Final Weight/Volume:	1000 uL
Date Prepared:	06/06/2010 1428		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-Dichlorophenol	ND		0.60	9.4
2,4-Dimethylphenol	ND		0.55	9.4
2,4-Dinitrophenol	ND		9.4	28
2,4-Dinitrotoluene	ND		1.6	9.4
2,4,5-Trichlorophenol	ND		0.42	9.4
2,4,6-Trichlorophenol	ND		0.27	9.4
2,6-Dinitrotoluene	ND		1.8	9.4
3-Nitroaniline	ND		0.25	9.4
3,3'-Dichlorobenzidine	ND		1.9	47
4-Bromophenyl phenyl ether	ND		0.40	9.4
4-Chloro-3-methylphenol	ND		2.3	9.4
4-Chloroaniline	ND		2.0	9.4
4-Chlorophenyl phenyl ether	ND		1.6	9.4
3 & 4 Methylphenol	ND		0.24	9.4
4-Nitroaniline	ND		1.9	9.4
4-Nitrophenol	ND		1.2	9.4
4,6-Dinitro-2-methylphenol	ND		3.8	47
Cresols, Total	ND		0.24	9.4
1,4-Dichlorobenzene	ND		0.30	3.8
1,2,4-Trichlorobenzene	ND		0.26	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	65		48 - 120
2-Fluorophenol	65		51 - 120
2-Fluorobiphenyl	53		46 - 120
2,4,6-Tribromophenol	68		57 - 120
Terphenyl-d14	93		61 - 120
Phenol-d5	67		51 - 120

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

Client Sample ID: LAKE 1

Lab Sample ID: 280-4055-1

Date Sampled: 06/02/2010 1605

Client Matrix: Water

Date Received: 06/03/2010 0839

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### RSK-175 Dissolved Gases (GC)

Method: RSK-175

Analysis Batch: 280-19109

Instrument ID: GCV\_J

Preparation: N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Date Analyzed: 06/11/2010 1131

Injection Volume:

Date Prepared:

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	33		0.22	5.0

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

Client Sample ID: LAKE 1

Lab Sample ID: 280-4055-1

Date Sampled: 06/02/2010 1605

Client Matrix: Water

Date Received: 06/03/2010 0839

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### RSK-175 Dissolved Gases (GC)

Method: RSK-175

Analysis Batch: 280-19109

Instrument ID: GCV\_J

Preparation: N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Date Analyzed: 06/11/2010 1131

Injection Volume:

Date Prepared:

Result Type: SECONDARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	33		0.22	5.0

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID:** IRRIGATION WELL 1

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

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### RSK-175 Dissolved Gases (GC)

Method:	RSK-175	Analysis Batch: 280-19109	Instrument ID:	GCV_J
Preparation:	N/A		Initial Weight/Volume:	18 mL
Dilution:	1.0		Final Weight/Volume:	18 mL
Date Analyzed:	06/11/2010 1136		Injection Volume:	
Date Prepared:			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	ND		0.22	5.0

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID:** IRRIGATION WELL 1

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

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### RSK-175 Dissolved Gases (GC)

Method: RSK-175

Analysis Batch: 280-19109

Instrument ID: GCV\_J

Preparation: N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Date Analyzed: 06/11/2010 1136

Injection Volume:

Date Prepared:

Result Type: SECONDARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	ND		0.22	5.0

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

Client Sample ID: LAKE 1

Lab Sample ID: 280-4055-1  
Client Matrix: Water

Date Sampled: 06/02/2010 1605  
Date Received: 06/03/2010 0839

### 6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-18561	Instrument ID:	MT_025
Preparation:	3010A	Prep Batch: 280-18282	Lab File ID:	25A7060810.txt
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 2122		Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1500			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	56000		34	200
Iron	130		22	100
Potassium	34000		240	3000
Magnesium	37000		11	200
Manganese	8.1	J	0.25	10
Sodium	250000		92	1000
Selenium	ND		4.9	15

## Analytical Data

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**Client Sample ID:** IRRIGATION WELL 1

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

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### 6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-18561	Instrument ID:	MT_025
Preparation:	3010A	Prep Batch: 280-18282	Lab File ID:	25A7060810.txt
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	06/08/2010 2141		Final Weight/Volume:	50 mL
Date Prepared:	06/07/2010 1500			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	56000		34	200
Iron	ND		22	100
Potassium	7000		240	3000
Magnesium	11000		11	200
Manganese	0.66	J	0.25	10
Sodium	43000		92	1000
Selenium	5.0	J	4.9	15

**Analytical Data**

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**General Chemistry****Client Sample ID: LAKE 1**

Lab Sample ID: 280-4055-1

Date Sampled: 06/02/2010 1605

Client Matrix: Water

Date Received: 06/03/2010 0839

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	1.1		mg/L	0.11	0.20	1.0	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 1547					
Chloride	240		mg/L	2.5	30	10	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 2150					
Fluoride	0.66		mg/L	0.060	0.50	1.0	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 1547					
Sulfate	340		mg/L	2.3	50	10	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 2150					
Nitrate Nitrite as N	ND		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-19804	Date Analyzed: 06/17/2010 1636					
Alkalinity	190		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2311					
Bicarbonate Alkalinity as CaCO3	110		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2311					
Carbonate Alkalinity as CaCO3	79		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2311					
Hydroxide Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2311					
Total Dissolved Solids	1100	B	mg/L	4.7	10	1.0	SM 2540C
	Analysis Batch: 280-18037	Date Analyzed: 06/04/2010 0701					
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Specific Conductance	1700		umhos/cm	2.0	2.0	1.0	SM 2510B
	Analysis Batch: 280-18434	Date Analyzed: 06/07/2010 1801					

**Analytical Data**

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

**General Chemistry****Client Sample ID: IRRIGATION WELL 1**

Lab Sample ID: 280-4055-2

Date Sampled: 06/02/2010 1630

Client Matrix: Water

Date Received: 06/03/2010 0839

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.32		mg/L	0.11	0.20	1.0	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 1604					
Chloride	35		mg/L	0.25	3.0	1.0	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 1604					
Fluoride	0.35	J	mg/L	0.060	0.50	1.0	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 1604					
Sulfate	44		mg/L	0.23	5.0	1.0	300.0
	Analysis Batch: 280-18772	Date Analyzed: 06/08/2010 1604					
Nitrate Nitrite as N	6.2		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-19804	Date Analyzed: 06/17/2010 1753					
Alkalinity	190		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2319					
Bicarbonate Alkalinity as CaCO <sub>3</sub>	190		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2319					
Carbonate Alkalinity as CaCO <sub>3</sub>	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2319					
Hydroxide Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-18722	Date Analyzed: 06/09/2010 2319					
Total Dissolved Solids	400	B	mg/L	4.7	10	1.0	SM 2540C
	Analysis Batch: 280-18037	Date Analyzed: 06/04/2010 0701					
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Specific Conductance	570		umhos/cm	2.0	2.0	1.0	SM 2510B
	Analysis Batch: 280-18909	Date Analyzed: 06/11/2010 0927					

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

### Surrogate Recovery Report

#### 8260B Volatile Organic Compounds (GC/MS)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-4055-1	LAKE 1	102	113	95	100
280-4055-2	IRRIGATION WELL 1	99	109	92	97
280-4055-3	TRIP BLANK	106	112	99	104
MB 280-18362/5		99	104	101	101
LCS 280-18362/4		102	101	103	100
280-4088-A-4 MS		100	100	95	95
280-4088-B-4 MSD		98	98	93	92

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-119
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-118

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Surrogate Recovery Report

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

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
280-4055-1	LAKE 1	69	71	71	60	72	71
280-4055-2	IRRIGATION WELL 1	65	67	65	53	68	93
MB 280-18218/1-A		77	78	78	44X	67	96
LCS 280-18218/2-A		72	76	78	63	78	86
280-4059-L-1-A MS		35X	9X	77	67	25X	32X
280-4059-K-1-A MSD		48X	23X	80	66	37X	65

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	51-120
PHL = Phenol-d5	51-120
NBZ = Nitrobenzene-d5	48-120
FBP = 2-Fluorobiphenyl	46-120
TBP = 2,4,6-Tribromophenol	57-120
TPH = Terphenyl-d14	61-120

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18362

Lab Sample ID: MB 280-18362/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 0837  
Date Prepared: 06/07/2010 0837

Analysis Batch: 280-18362  
Prep Batch: N/A  
Units: ug/L

Method: 8260B  
Preparation: 5030B

Instrument ID: MSV\_G2  
Lab File ID: g2\_1766.D  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
Benzene	ND		0.16	1.0
Ethylbenzene	ND		0.16	1.0
Toluene	ND		0.17	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
o-Xylene	ND		0.19	1.0
Xylenes, Total	ND		0.19	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	70 - 127
Toluene-d8 (Surr)	101	80 - 125
4-Bromofluorobenzene (Surr)	101	78 - 118
Dibromofluoromethane (Surr)	99	77 - 119

### Lab Control Sample - Batch: 280-18362

Lab Sample ID: LCS 280-18362/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 0734  
Date Prepared: 06/07/2010 0734

Analysis Batch: 280-18362  
Prep Batch: N/A  
Units: ug/L

Method: 8260B  
Preparation: 5030B

Instrument ID: MSV\_G2  
Lab File ID: g2\_1763.D  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	4.61	92	77 - 120	
Ethylbenzene	5.00	4.45	89	78 - 120	
Toluene	5.00	4.54	91	73 - 120	
m-Xylene & p-Xylene	10.0	8.95	89	78 - 120	
o-Xylene	5.00	4.51	90	77 - 120	
Xylenes, Total	15.0	13.5	90	77 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	70 - 127
Toluene-d8 (Surr)	103	80 - 125
4-Bromofluorobenzene (Surr)	100	78 - 118
Dibromofluoromethane (Surr)	102	77 - 119

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-18362

Method: 8260B  
Preparation: 5030B

MS Lab Sample ID: 280-4088-A-4 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1023  
Date Prepared: 06/07/2010 1023

Analysis Batch: 280-18362  
Prep Batch: N/A

Instrument ID: MSV\_G2  
Lab File ID: g2\_1771.D  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-4088-B-4 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1044  
Date Prepared: 06/07/2010 1044

Analysis Batch: 280-18362  
Prep Batch: N/A

Instrument ID: MSV\_G2  
Lab File ID: g2\_1772.D  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	87	80	77 - 120	8	20		
Ethylbenzene	81	74	78 - 120	10	26		F
Toluene	86	78	73 - 120	9	20		
m-Xylene & p-Xylene	81	74	78 - 120	9	20		F
o-Xylene	83	75	77 - 120	10	20		F
Xylenes, Total	82	75	77 - 120	10	20		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	98	70 - 127
Toluene-d8 (Surr)	95	93	80 - 125
4-Bromofluorobenzene (Surr)	95	92	78 - 118
Dibromofluoromethane (Surr)	100	98	77 - 119

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Matrix Spike/  
Matrix Spike Duplicate Data Report - Batch: 280-18362**

**Method: 8260B  
Preparation: 5030B**

MS Lab Sample ID: 280-4088-A-4 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1023  
Date Prepared: 06/07/2010 1023

Units: ug/L

MSD Lab Sample ID: 280-4088-B-4 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1044  
Date Prepared: 06/07/2010 1044

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Benzene	ND	5.00	5.00	4.34	4.01	
Ethylbenzene	ND	5.00	5.00	4.05	3.68	F
Toluene	ND	5.00	5.00	4.28	3.91	
m-Xylene & p-Xylene	ND	10.0	10.0	8.15	7.42	F
o-Xylene	ND	5.00	5.00	4.16	3.77	F
Xylenes, Total	ND	15.0	15.0	12.3	11.2	F

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18218

**Method: 8270C**  
**Preparation: 3520C**

Lab Sample ID: MB 280-18218/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1711  
Date Prepared: 06/06/2010 1428

Analysis Batch: 280-19069  
Prep Batch: 280-18218  
Units: ug/L

Instrument ID: MSS\_D  
Lab File ID: D5603.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1000 uL  
Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
Bis(2-chloroethoxy)methane	ND		0.97	10
Bis(2-chloroethyl)ether	ND		0.41	10
Bis(2-ethylhexyl) phthalate	2.47	J	0.56	10
2,2'-oxybis[1-chloropropane]	ND		0.28	10
Acenaphthene	ND		0.28	4.0
Acenaphthylene	ND		0.49	4.0
Acetophenone	ND		0.24	10
Anthracene	ND		0.42	4.0
Atrazine	ND		0.73	10
Benzidine	ND		50	100
Benzo[a]anthracene	ND		0.35	4.0
Benzo[a]pyrene	ND		0.31	4.0
Benzo[b]fluoranthene	ND		0.53	4.0
Benzo[g,h,i]perylene	ND		0.50	4.0
Benzo[k]fluoranthene	ND		0.46	4.0
Butyl benzyl phthalate	ND		1.0	4.0
Caprolactam	ND		5.0	10
Carbazole	ND		0.43	4.0
Chrysene	ND		0.54	4.0
Di-n-butyl phthalate	ND		1.2	4.0
Di-n-octyl phthalate	ND		0.35	4.0
Dibenz(a,h)anthracene	ND		0.51	4.0
Dibenzofuran	ND		0.29	4.0
Diethyl phthalate	ND		0.38	4.0
Dimethyl phthalate	ND		0.21	4.0
Fluoranthene	ND		0.20	4.0
Fluorene	ND		0.31	4.0
Hexachlorobenzene	ND		0.66	10
Hexachlorobutadiene	ND		3.3	10
Hexachlorocyclopentadiene	ND		1.5	50
Hexachloroethane	ND		2.1	10
Indeno[1,2,3-cd]pyrene	ND		0.65	4.0
N-Nitrosodi-n-propylamine	ND		0.35	10
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.44	10
Naphthalene	ND		0.29	4.0
Nitrobenzene	ND		0.81	10
Pentachlorophenol	ND		20	50
Phenanthrene	ND		0.26	4.0
Phenol	ND		2.0	10
Pyrene	ND		0.37	10
2-Chloronaphthalene	ND		0.26	4.0
2-Chlorophenol	ND		2.0	10
2-Methylnaphthalene	ND		0.29	4.0

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18218

**Method: 8270C**  
**Preparation: 3520C**

Lab Sample ID: MB 280-18218/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1711  
Date Prepared: 06/06/2010 1428

Analysis Batch: 280-19069  
Prep Batch: 280-18218  
Units: ug/L

Instrument ID: MSS\_D  
Lab File ID: D5603.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1000 uL  
Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
2-Methylphenol	ND		0.98	10
2-Nitroaniline	ND		1.7	10
2-Nitrophenol	ND		0.39	10
2,4-Dichlorophenol	ND		0.64	10
2,4-Dimethylphenol	ND		0.58	10
2,4-Dinitrophenol	ND		10	30
2,4-Dinitrotoluene	ND		1.7	10
2,4,5-Trichlorophenol	ND		0.45	10
2,4,6-Trichlorophenol	ND		0.29	10
2,6-Dinitrotoluene	ND		1.9	10
3-Nitroaniline	ND		0.27	10
3,3'-Dichlorobenzidine	ND		2.0	50
4-Bromophenyl phenyl ether	ND		0.43	10
4-Chloro-3-methylphenol	ND		2.4	10
4-Chloroaniline	ND		2.1	10
4-Chlorophenyl phenyl ether	ND		1.7	10
3 & 4 Methylphenol	ND		0.25	10
4-Nitroaniline	ND		2.0	10
4-Nitrophenol	ND		1.2	10
4,6-Dinitro-2-methylphenol	ND		4.0	50
Cresols, Total	ND		0.25	10
1,4-Dichlorobenzene	ND		0.32	4.0
1,2,4-Trichlorobenzene	ND		0.28	4.0

Surrogate	% Rec		Acceptance Limits
Nitrobenzene-d5	78		48 - 120
2-Fluorophenol	77		51 - 120
2-Fluorobiphenyl	44	X	46 - 120
2,4,6-Tribromophenol	67		57 - 120
Terphenyl-d14	96		61 - 120
Phenol-d5	78		51 - 120

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Lab Control Sample - Batch: 280-18218

**Method: 8270C**  
**Preparation: 3520C**

Lab Sample ID: LCS 280-18218/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1059  
Date Prepared: 06/06/2010 1428

Analysis Batch: 280-19069  
Prep Batch: 280-18218  
Units: ug/L

Instrument ID: MSS\_D  
Lab File ID: D5583.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1000 uL  
Injection Volume: 0.5 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	80.0	44.0	55	53 - 120	
Anthracene	80.0	65.6	82	56 - 120	
Carbazole	80.0	66.7	83	48 - 120	
N-Nitrosodi-n-propylamine	80.0	61.2	77	50 - 120	
Pentachlorophenol	80.0	58.0	72	52 - 120	
Phenol	80.0	61.8	77	52 - 120	
Pyrene	80.0	69.6	87	56 - 120	
2-Chlorophenol	80.0	55.3	69	57 - 120	
2-Methylnaphthalene	80.0	43.8	55	50 - 120	
2-Methylphenol	80.0	57.5	72	50 - 120	
2,4-Dinitrotoluene	80.0	64.7	81	51 - 120	
2,4,5-Trichlorophenol	80.0	68.0	85	60 - 120	
2,4,6-Trichlorophenol	80.0	59.5	74	52 - 120	
4-Chloro-3-methylphenol	80.0	60.7	76	63 - 120	
4-Nitrophenol	80.0	66.7	83	49 - 124	
1,4-Dichlorobenzene	80.0	39.6	50	38 - 120	
1,2,4-Trichlorobenzene	80.0	43.1	54	40 - 120	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	78	48 - 120
2-Fluorophenol	72	51 - 120
2-Fluorobiphenyl	63	46 - 120
2,4,6-Tribromophenol	78	57 - 120
Terphenyl-d14	86	61 - 120
Phenol-d5	76	51 - 120

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-18218

Method: 8270C  
Preparation: 3520C

MS Lab Sample ID: 280-4059-L-1-A MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1117  
Date Prepared: 06/06/2010 1428

Analysis Batch: 280-19069  
Prep Batch: 280-18218

Instrument ID: MSS\_D  
Lab File ID: D5584.D  
Initial Weight/Volume: 1043 mL  
Final Weight/Volume: 1000 uL  
Injection Volume: 0.5 uL

MSD Lab Sample ID: 280-4059-K-1-A MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1136  
Date Prepared: 06/06/2010 1428

Analysis Batch: 280-19069  
Prep Batch: 280-18218

Instrument ID: MSS\_D  
Lab File ID: D5585.D  
Initial Weight/Volume: 1062 mL  
Final Weight/Volume: 1000 uL  
Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Acenaphthene	18	14	53 - 120	26	30	F	F
Anthracene	29	24	56 - 120	20	30	F	F
Carbazole	13	10	48 - 120	25	30	F	F
N-Nitrosodi-n-propylamine	70	68	50 - 120	4	30		
Pentachlorophenol	76	92	52 - 120	18	33		
Phenol	23	45	52 - 120	61	42	F	F
Pyrene	43	45	56 - 120	4	30	F	F
2-Chlorophenol	40	57	57 - 120	33	30	F	F
2-Methylnaphthalene	19	21	50 - 120	5	32	F	F
2-Methylphenol	3	8	50 - 120	84	30	J F	J F
2,4-Dinitrotoluene	88	92	51 - 120	4	32		
2,4,5-Trichlorophenol	80	90	60 - 120	10	30		
2,4,6-Trichlorophenol	74	82	52 - 120	9	30		
4-Chloro-3-methylphenol	15	34	63 - 120	74	30	F	F
4-Nitrophenol	110	125	49 - 124	11	35		F
1,4-Dichlorobenzene	53	59	38 - 120	9	52		
1,2,4-Trichlorobenzene	61	65	40 - 120	5	42		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits	
Nitrobenzene-d5	77		80		48 - 120	
2-Fluorophenol	35	X	48	X	51 - 120	
2-Fluorobiphenyl	67		66		46 - 120	
2,4,6-Tribromophenol	25	X	37	X	57 - 120	
Terphenyl-d14	32	X	65		61 - 120	
Phenol-d5	9	X	23	X	51 - 120	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Matrix Spike/  
Matrix Spike Duplicate Data Report - Batch: 280-18218**

**Method: 8270C  
Preparation: 3520C**

MS Lab Sample ID: 280-4059-L-1-A MS      Units: ug/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1117  
Date Prepared: 06/06/2010 1428

MSD Lab Sample ID: 280-4059-K-1-A MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2010 1136  
Date Prepared: 06/06/2010 1428

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acenaphthene	ND	76.7	75.3	13.8 F	10.6 F
Anthracene	ND	76.7	75.3	22.1 F	18.1 F
Carbazole	ND	76.7	75.3	9.92 F	7.70 F
N-Nitrosodi-n-propylamine	ND	76.7	75.3	53.5	51.4
Pentachlorophenol	ND	76.7	75.3	58.0	69.4
Phenol	ND	76.7	75.3	17.9 F	33.7 F
Pyrene	ND	76.7	75.3	32.6 F	33.9 F
2-Chlorophenol	ND	76.7	75.3	30.8 F	42.9 F
2-Methylnaphthalene	ND	76.7	75.3	14.9 F	15.6 F
2-Methylphenol	ND	76.7	75.3	2.56 J F	6.28 J F
2,4-Dinitrotoluene	ND	76.7	75.3	67.2	69.7
2,4,5-Trichlorophenol	ND	76.7	75.3	61.4	67.9
2,4,6-Trichlorophenol	ND	76.7	75.3	56.6	62.1
4-Chloro-3-methylphenol	ND	76.7	75.3	11.8 F	25.7 F
4-Nitrophenol	ND	76.7	75.3	84.7	94.5 F
1,4-Dichlorobenzene	ND	76.7	75.3	40.4	44.1
1,2,4-Trichlorobenzene	ND	76.7	75.3	46.6	49.0

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-19109

**Method: RSK-175**  
**Preparation: N/A**

Lab Sample ID: MB 280-19109/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1127  
Date Prepared: N/A

Analysis Batch: 280-19109  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GCV\_J  
Lab File ID: 006F0601.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Methane	ND		0.22	5.0

### Method Blank - Batch: 280-19109

**Method: RSK-175**  
**Preparation: N/A**

Lab Sample ID: MB 280-19109/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1127  
Date Prepared: N/A

Analysis Batch: 280-19109  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GCV\_J  
Lab File ID: 006F0601.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: SECONDARY

Analyte	Result	Qual	MDL	RL
Methane	ND		0.22	5.0

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 280-19109**

**Method: RSK-175  
Preparation: N/A**

LCS Lab Sample ID: LCS 280-19109/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1118  
Date Prepared: N/A

Analysis Batch: 280-19109  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GCV\_J  
Lab File ID: 004F0401.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-19109/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1123  
Date Prepared: N/A

Analysis Batch: 280-19109  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GCV\_J  
Lab File ID: 005F0501.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	102	102	75 - 125	1	20		

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 280-19109**

**Method: RSK-175  
Preparation: N/A**

LCS Lab Sample ID: LCS 280-19109/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1118  
Date Prepared: N/A

Analysis Batch: 280-19109  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GCV\_J  
Lab File ID: 004F0401.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 280-19109/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1123  
Date Prepared: N/A

Analysis Batch: 280-19109  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GCV\_J  
Lab File ID: 005F0501.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	101	102	75 - 125	1	20		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-19109

Method: RSK-175  
Preparation: N/A

LCS Lab Sample ID: LCS 280-19109/2      Units: ug/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1118  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-19109/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1123  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.0	73.0	74.1	74.6

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-19109

Method: RSK-175  
Preparation: N/A

LCS Lab Sample ID: LCS 280-19109/2      Units: ug/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1118  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-19109/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 1123  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.0	73.0	73.8	74.3

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-19109

**Method: RSK-175**  
**Preparation: N/A**

MS Lab Sample ID: 280-4256-B-2 MSDL  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1337  
Date Prepared: N/A  
Analysis Batch: 280-19109  
Prep Batch: N/A  
Run Type: DL

Instrument ID: GCV\_J  
Lab File ID: 026F2601.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: PRIMARY

MSD Lab Sample ID: 280-4256-B-2 MSDDL  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1341  
Date Prepared: N/A  
Analysis Batch: 280-19109  
Prep Batch: N/A  
Run Type: DL

Instrument ID: GCV\_J  
Lab File ID: 027F2701.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methane	130	126	52 - 145	1	20		

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-19109

**Method: RSK-175**  
**Preparation: N/A**

MS Lab Sample ID: 280-4256-B-2 MSDL  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1337  
Date Prepared: N/A  
Analysis Batch: 280-19109  
Prep Batch: N/A  
Run Type: DL

Instrument ID: GCV\_J  
Lab File ID: 026F2601.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: SECONDARY

MSD Lab Sample ID: 280-4256-B-2 MSDDL  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1341  
Date Prepared: N/A  
Analysis Batch: 280-19109  
Prep Batch: N/A  
Run Type: DL

Instrument ID: GCV\_J  
Lab File ID: 027F2701.D  
Initial Weight/Volume: 18 mL  
Final Weight/Volume: 18 mL  
Injection Volume:  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methane	129	125	52 - 145	1	20		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Matrix Spike/  
Matrix Spike Duplicate Data Report - Batch: 280-19109**

**Method: RSK-175  
Preparation: N/A**

MS Lab Sample ID: 280-4256-B-2 MSDL Units: ug/L  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1337  
Date Prepared: N/A

MSD Lab Sample ID: 280-4256-B-2 MSDDL  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1341  
Date Prepared: N/A

Run Type: DL

Run Type: DL

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Methane	15000	3650	3650	19600	19400

**Matrix Spike/  
Matrix Spike Duplicate Data Report - Batch: 280-19109**

**Method: RSK-175  
Preparation: N/A**

MS Lab Sample ID: 280-4256-B-2 MSDL Units: ug/L  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1337  
Date Prepared: N/A

MSD Lab Sample ID: 280-4256-B-2 MSDDL  
Client Matrix: Water  
Dilution: 50  
Date Analyzed: 06/11/2010 1341  
Date Prepared: N/A

Run Type: DL

Run Type: DL

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Methane	15000	3650	3650	19400	19300

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18282

**Method: 6010B**  
**Preparation: 3010A**

Lab Sample ID: MB 280-18282/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 2118  
Date Prepared: 06/07/2010 1500

Analysis Batch: 280-18561  
Prep Batch: 280-18282  
Units: ug/L

Instrument ID: MT\_025  
Lab File ID: 25A7060810.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Calcium	ND		34	200
Iron	ND		22	100
Potassium	ND		240	3000
Magnesium	ND		11	200
Manganese	ND		0.25	10
Sodium	ND		92	1000
Selenium	ND		4.9	15

### Lab Control Sample - Batch: 280-18282

**Method: 6010B**  
**Preparation: 3010A**

Lab Sample ID: LCS 280-18282/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 2120  
Date Prepared: 06/07/2010 1500

Analysis Batch: 280-18561  
Prep Batch: 280-18282  
Units: ug/L

Instrument ID: MT\_025  
Lab File ID: 25A7060810.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium	50000	45600	91	90 - 111	
Iron	1000	889	89	89 - 115	
Potassium	50000	52800	106	89 - 114	
Magnesium	50000	45800	92	90 - 113	
Manganese	500	462	92	90 - 110	
Sodium	50000	55500	111	90 - 115	
Selenium	2000	2010	100	85 - 112	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-18282

Method: 6010B  
Preparation: 3010A

MS Lab Sample ID: 280-4055-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 2127  
Date Prepared: 06/07/2010 1500

Analysis Batch: 280-18561  
Prep Batch: 280-18282

Instrument ID: MT\_025  
Lab File ID: 25A7060810.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-4055-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 2129  
Date Prepared: 06/07/2010 1500

Analysis Batch: 280-18561  
Prep Batch: 280-18282

Instrument ID: MT\_025  
Lab File ID: 25A7060810.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Calcium	89	87	48 - 153	1	25		
Iron	91	88	52 - 155	3	25		
Potassium	104	102	76 - 132	1	25		
Magnesium	90	88	62 - 146	1	25		
Manganese	92	90	79 - 121	1	25		
Sodium	100	92	70 - 203	1	40	4	4
Selenium	102	100	71 - 140	1	25		

### Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 280-18282

Method: 6010B  
Preparation: 3010A

MS Lab Sample ID: 280-4055-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 2127  
Date Prepared: 06/07/2010 1500

Units: ug/L

MSD Lab Sample ID: 280-4055-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 2129  
Date Prepared: 06/07/2010 1500

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium	56000	50000	50000	100000	99000
Iron	130	1000	1000	1040	1000
Potassium	34000	50000	50000	86100	84900
Magnesium	37000	50000	50000	81700	80800
Manganese	8.1 J	500	500	467	461
Sodium	250000	50000	50000	302000 4	298000 4
Selenium	ND	2000	2000	2030	2000

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18772

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: MB 280-18772/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1530  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_IC6  
Lab File ID: 11516.0000.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Bromide	ND		0.11	0.20
Chloride	ND		0.25	3.0
Fluoride	ND		0.060	0.50
Sulfate	ND		0.23	5.0

### Method Reporting Limit Check - Batch: 280-18772

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: MRL 280-18772/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1438  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_IC6  
Lab File ID: 11213.0000.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	0.200	100	50 - 150	
Chloride	1.00	1.05	105	50 - 150	J
Fluoride	0.200	0.200	100	50 - 150	J
Sulfate	1.00	1.10	110	50 - 150	J

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-18772

Method: 300.0  
Preparation: N/A

LCS Lab Sample ID: LCS 280-18772/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1455  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_IC6  
Lab File ID: 11314.0000.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-18772/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1512  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_IC6  
Lab File ID: 11415.0000.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bromide	103	102	90 - 110	1	10		
Chloride	107	106	90 - 110	0	10		
Fluoride	107	106	90 - 110	1	10		
Sulfate	107	106	90 - 110	1	10		

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-18772

Method: 300.0  
Preparation: N/A

LCS Lab Sample ID: LCS 280-18772/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1455  
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-18772/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1512  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromide	5.00	5.00	5.13	5.10
Chloride	25.0	25.0	26.6	26.5
Fluoride	5.00	5.00	5.33	5.30
Sulfate	25.0	25.0	26.8	26.6

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-18772

Method: 300.0  
Preparation: N/A

MS Lab Sample ID: 280-4055-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1639  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A

Instrument ID: WC\_IC6  
Lab File ID: 119.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-4055-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1656  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A

Instrument ID: WC\_IC6  
Lab File ID: 120.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	107	107	80 - 120	0	20		
Chloride	109	109	80 - 120	0	20	E	E
Fluoride	104	104	80 - 120	0	20		
Sulfate	108	109	80 - 120	0	20	E	E

### Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 280-18772

Method: 300.0  
Preparation: N/A

MS Lab Sample ID: 280-4055-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1639  
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 280-4055-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1656  
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	0.32	5.00	5.00	5.65	5.67
Chloride	35	25.0	25.0	62.1 E	62.2 E
Fluoride	0.35 J	5.00	5.00	5.56	5.57
Sulfate	44	25.0	25.0	71.2 E	71.3 E

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Duplicate - Batch: 280-18772

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: 280-4055-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/08/2010 1622  
Date Prepared: N/A

Analysis Batch: 280-18772  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_IC6  
Lab File ID: 118.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	0.32	0.320	0	15	
Chloride	35	34.8	0	15	
Fluoride	0.35 J	0.360	3	15	J
Sulfate	44	44.1	0	15	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-19804

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID: MB 280-19804/146  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1558  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	ND		0.019	0.10

### Method Blank - Batch: 280-19804

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID: MB 280-19804/197  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1735  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	ND		0.019	0.10

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 280-19804**

**Method: 353.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 280-19804/147  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1559  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-19804/148  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1601  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RS  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Nitrate Nitrite as N	108	107	90 - 110	1	10		

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 280-19804**

**Method: 353.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 280-19804/198  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1736  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-19804/199  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1738  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RS  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Nitrate Nitrite as N	102	103	90 - 110	1	10		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-19804

**Method: 353.2**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 280-19804/147      Units: mg/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1559  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-19804/148  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1601  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate Nitrite as N	5.00	5.00	5.41	5.36

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-19804

**Method: 353.2**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 280-19804/198      Units: mg/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1736  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-19804/199  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1738  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate Nitrite as N	5.00	5.00	5.10	5.14

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 280-19804**

**Method: 353.2  
Preparation: N/A**

MS Lab Sample ID: 280-3956-A-8 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1631  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-3956-A-8 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1633  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	109	109	72 - 113	0	17		

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 280-19804**

**Method: 353.2  
Preparation: N/A**

MS Lab Sample ID: 280-3927-A-5 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1750  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-3927-A-5 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1751  
Date Prepared: N/A

Analysis Batch: 280-19804  
Prep Batch: N/A

Instrument ID: WC\_Alph 2  
Lab File ID: C:\FLOW\_4\0617ANXN.RST  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	103	104	72 - 113	0	17		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

**Matrix Spike/  
Matrix Spike Duplicate Data Report - Batch: 280-19804**

**Method: 353.2  
Preparation: N/A**

MS Lab Sample ID: 280-3956-A-8 MS      Units: mg/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1631  
Date Prepared: N/A

MSD Lab Sample ID: 280-3956-A-8 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1633  
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	1.4	4.00	4.00	5.77	5.80

**Matrix Spike/  
Matrix Spike Duplicate Data Report - Batch: 280-19804**

**Method: 353.2  
Preparation: N/A**

MS Lab Sample ID: 280-3927-A-5 MS      Units: mg/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1750  
Date Prepared: N/A

MSD Lab Sample ID: 280-3927-A-5 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/17/2010 1751  
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	0.065      J	4.00	4.00	4.20	4.21

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18722

**Method: SM 2320B**  
**Preparation: N/A**

Lab Sample ID: MB 280-18722/35  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2010 2245  
Date Prepared: N/A

Analysis Batch: 280-18722  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_AT2  
Lab File ID: 060910a.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Alkalinity	ND		1.1	5.0
Bicarbonate Alkalinity as CaCO <sub>3</sub>	ND		1.1	5.0
Carbonate Alkalinity as CaCO <sub>3</sub>	ND		1.1	5.0
Hydroxide Alkalinity	ND		1.1	5.0

### Lab Control Sample/

**Method: SM 2320B**  
**Preparation: N/A**

### Lab Control Sample Duplicate Recovery Report - Batch: 280-18722

LCS Lab Sample ID: LCS 280-18722/33  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2010 2229  
Date Prepared: N/A

Analysis Batch: 280-18722  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_AT2  
Lab File ID: 060910a.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-18722/34  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2010 2239  
Date Prepared: N/A

Analysis Batch: 280-18722  
Prep Batch: N/A  
Units: mg/L

Instrument ID: WC\_AT2  
Lab File ID: 060910a.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Alkalinity	100	101	90 - 110	1	10		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-18722

Method: SM 2320B  
Preparation: N/A

LCS Lab Sample ID: LCS 280-18722/33 Units: mg/L  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2010 2229  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-18722/34  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2010 2239  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity	200	200	199	201

### Duplicate - Batch: 280-18722

Method: SM 2320B  
Preparation: N/A

Lab Sample ID: 280-4160-B-3 DU Analysis Batch: 280-18722  
Client Matrix: Water Prep Batch: N/A  
Dilution: 1.0 Units: mg/L  
Date Analyzed: 06/09/2010 2302  
Date Prepared: N/A

Instrument ID: WC\_AT2  
Lab File ID: 060910a.TXT  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	140	137	1	10	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18434

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: MB 280-18434/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1801  
Date Prepared: N/A

Analysis Batch: 280-18434  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		2.0	2.0

### Lab Control Sample/

### Lab Control Sample Duplicate Recovery Report - Batch: 280-18434

**Method: SM 2510B**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 280-18434/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1801  
Date Prepared: N/A

Analysis Batch: 280-18434  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1 mL

LCSD Lab Sample ID: LCSD 280-18434/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1801  
Date Prepared: N/A

Analysis Batch: 280-18434  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	100	100	90 - 110	0	10		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-18434

Method: SM 2510B  
Preparation: N/A

LCS Lab Sample ID: LCS 280-18434/3      Units: umhos/cm  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1801  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-18434/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/07/2010 1801  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance	1410	1410	1410	1410

### Duplicate - Batch: 280-18434

Method: SM 2510B  
Preparation: N/A

Lab Sample ID: 280-4064-B-3 DU      Analysis Batch: 280-18434  
Client Matrix: Water      Prep Batch: N/A  
Dilution: 1.0      Units: umhos/cm  
Date Analyzed: 06/07/2010 1801  
Date Prepared: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	2500	2470	0	10	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18909

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: MB 280-18909/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 0927  
Date Prepared: N/A

Analysis Batch: 280-18909  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		2.0	2.0

### Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-18909

**Method: SM 2510B**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 280-18909/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 0927  
Date Prepared: N/A

Analysis Batch: 280-18909  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-18909/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 0927  
Date Prepared: N/A

Analysis Batch: 280-18909  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	98	98	90 - 110	0	10		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-18909

Method: SM 2510B  
Preparation: N/A

LCS Lab Sample ID: LCS 280-18909/3      Units: umhos/cm  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 0927  
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-18909/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2010 0927  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance	1410	1410	1380	1380

### Duplicate - Batch: 280-18909

Method: SM 2510B  
Preparation: N/A

Lab Sample ID: 280-4055-2      Analysis Batch: 280-18909  
Client Matrix: Water      Prep Batch: N/A  
Dilution: 1.0      Units: umhos/cm  
Date Analyzed: 06/11/2010 0927  
Date Prepared: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	570	578	1	10	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Method Blank - Batch: 280-18037

Lab Sample ID: MB 280-18037/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/04/2010 0701  
Date Prepared: N/A

Analysis Batch: 280-18037  
Prep Batch: N/A  
Units: mg/L

**Method: SM 2540C**  
**Preparation: N/A**

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Total Dissolved Solids	6.00	J	4.7	10

### Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-18037

LCS Lab Sample ID: LCS 280-18037/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/04/2010 0701  
Date Prepared: N/A

Analysis Batch: 280-18037  
Prep Batch: N/A  
Units: mg/L

**Method: SM 2540C**  
**Preparation: N/A**

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-18037/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/04/2010 0701  
Date Prepared: N/A

Analysis Batch: 280-18037  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Dissolved Solids	100	100	86 - 110	0	20		

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-18037

Method: SM 2540C  
Preparation: N/A

LCS Lab Sample ID: LCS 280-18037/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/04/2010 0701  
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-18037/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/04/2010 0701  
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	501	502

### Duplicate - Batch: 280-18037

Method: SM 2540C  
Preparation: N/A

Lab Sample ID: 280-4030-A-1 DU  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/04/2010 0701  
Date Prepared: N/A

Analysis Batch: 280-18037  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	120	115	6	20	

## DATA REPORTING QUALIFIERS

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

Sdg Number: 200240886 // Terracon # 25087038

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:280-18362</b>					
LCS 280-18362/4	Lab Control Sample	T	Water	8260B	
MB 280-18362/5	Method Blank	T	Water	8260B	
280-4055-1	LAKE 1	T	Water	8260B	
280-4055-2	IRRIGATION WELL 1	T	Water	8260B	
280-4055-3	TRIP BLANK	T	Water	8260B	
280-4088-A-4 MS	Matrix Spike	T	Water	8260B	
280-4088-B-4 MSD	Matrix Spike Duplicate	T	Water	8260B	

#### Report Basis

T = Total

### GC/MS Semi VOA

<b>Prep Batch: 280-18218</b>					
LCS 280-18218/2-A	Lab Control Sample	T	Water	3520C	
MB 280-18218/1-A	Method Blank	T	Water	3520C	
280-4055-1	LAKE 1	T	Water	3520C	
280-4055-2	IRRIGATION WELL 1	T	Water	3520C	
280-4059-K-1-A MSD	Matrix Spike Duplicate	T	Water	3520C	
280-4059-L-1-A MS	Matrix Spike	T	Water	3520C	
<b>Analysis Batch:280-19069</b>					
LCS 280-18218/2-A	Lab Control Sample	T	Water	8270C	280-18218
MB 280-18218/1-A	Method Blank	T	Water	8270C	280-18218
280-4055-1	LAKE 1	T	Water	8270C	280-18218
280-4055-2	IRRIGATION WELL 1	T	Water	8270C	280-18218
280-4059-K-1-A MSD	Matrix Spike Duplicate	T	Water	8270C	280-18218
280-4059-L-1-A MS	Matrix Spike	T	Water	8270C	280-18218

#### Report Basis

T = Total

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC VOA</b>					
<b>Analysis Batch:280-19109</b>					
LCS 280-19109/2	Lab Control Sample	T	Water	RSK-175	
LCSD 280-19109/3	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 280-19109/4	Method Blank	T	Water	RSK-175	
280-4055-1	LAKE 1	T	Water	RSK-175	
280-4055-2	IRRIGATION WELL 1	T	Water	RSK-175	
280-4256-B-2 MSDDL	Matrix Spike Duplicate	T	Water	RSK-175	
280-4256-B-2 MSDL	Matrix Spike	T	Water	RSK-175	

#### Report Basis

T = Total

### Metals

<b>Prep Batch: 280-18282</b>					
MB 280-18282/1-A	Method Blank	T	Water	3010A	
LCS 280-18282/2-A	Lab Control Sample	T	Water	3010A	
280-4055-1MS	Matrix Spike	T	Water	3010A	
280-4055-1MSD	Matrix Spike Duplicate	T	Water	3010A	
280-4055-1	LAKE 1	T	Water	3010A	
280-4055-2	IRRIGATION WELL 1	T	Water	3010A	
<b>Analysis Batch:280-18561</b>					
MB 280-18282/1-A	Method Blank	T	Water	6010B	280-18282
LCS 280-18282/2-A	Lab Control Sample	T	Water	6010B	280-18282
280-4055-1	LAKE 1	T	Water	6010B	280-18282
280-4055-1MSD	Matrix Spike Duplicate	T	Water	6010B	280-18282
280-4055-1MS	Matrix Spike	T	Water	6010B	280-18282
280-4055-2	IRRIGATION WELL 1	T	Water	6010B	280-18282

#### Report Basis

T = Total

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:280-18037</b>					
MB 280-18037/1	Method Blank	T	Water	SM 2540C	
LCS 280-18037/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-18037/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
280-4030-A-1 DU	Duplicate	T	Water	SM 2540C	
280-4055-1	LAKE 1	T	Water	SM 2540C	
280-4055-2	IRRIGATION WELL 1	T	Water	SM 2540C	
<b>Analysis Batch:280-18434</b>					
MB 280-18434/5	Method Blank	T	Water	SM 2510B	
LCSD 280-18434/4	Lab Control Sample Duplicate	T	Water	SM 2510B	
LCS 280-18434/3	Lab Control Sample	T	Water	SM 2510B	
280-4055-1	LAKE 1	T	Water	SM 2510B	
280-4064-B-3 DU	Duplicate	T	Water	SM 2510B	
<b>Analysis Batch:280-18722</b>					
LCS 280-18722/33	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-18722/34	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-18722/35	Method Blank	T	Water	SM 2320B	
280-4055-1	LAKE 1	T	Water	SM 2320B	
280-4055-2	IRRIGATION WELL 1	T	Water	SM 2320B	
280-4160-B-3 DU	Duplicate	T	Water	SM 2320B	
<b>Analysis Batch:280-18772</b>					
LCSD 280-18772/5	Lab Control Sample Duplicate	T	Water	300.0	
LCS 280-18772/4	Lab Control Sample	T	Water	300.0	
MB 280-18772/6	Method Blank	T	Water	300.0	
280-4055-1	LAKE 1	T	Water	300.0	
280-4055-2	IRRIGATION WELL 1	T	Water	300.0	
280-4055-2MSD	Matrix Spike Duplicate	T	Water	300.0	
280-4055-2DU	Duplicate	T	Water	300.0	
280-4055-2MS	Matrix Spike	T	Water	300.0	
<b>Analysis Batch:280-18909</b>					
MB 280-18909/5	Method Blank	T	Water	SM 2510B	
LCS 280-18909/3	Lab Control Sample	T	Water	SM 2510B	
LCSD 280-18909/4	Lab Control Sample Duplicate	T	Water	SM 2510B	
280-4055-2DU	Duplicate	T	Water	SM 2510B	
280-4055-2	IRRIGATION WELL 1	T	Water	SM 2510B	

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
Sdg Number: 200240886 // Terracon # 25087038

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:280-19804</b>					
MB 280-19804/146	Method Blank	T	Water	353.2	
LCS 280-19804/198	Lab Control Sample	T	Water	353.2	
LCS 280-19804/147	Lab Control Sample	T	Water	353.2	
MB 280-19804/197	Method Blank	T	Water	353.2	
LCSD 280-19804/148	Lab Control Sample Duplicate	T	Water	353.2	
LCSD 280-19804/199	Lab Control Sample Duplicate	T	Water	353.2	
280-3927-A-5 MSD	Matrix Spike Duplicate	T	Water	353.2	
280-3927-A-5 MS	Matrix Spike	T	Water	353.2	
280-3956-A-8 MSD	Matrix Spike Duplicate	T	Water	353.2	
280-3956-A-8 MS	Matrix Spike	T	Water	353.2	
280-4055-1	LAKE 1	T	Water	353.2	
280-4055-2	IRRIGATION WELL 1	T	Water	353.2	

#### Report Basis

T = Total

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
SDG: 200240886 // Terracon # 25087038

### Laboratory Chronicle

Lab ID: 280-4055-1

Client ID: LAKE 1

Sample Date/Time: 06/02/2010 16:05

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4055-H-1		280-18362		06/07/2010 15:59	1	TAL DEN	MD
A:8260B	280-4055-H-1		280-18362		06/07/2010 15:59	1	TAL DEN	MD
P:3520C	280-4055-A-1-A		280-19069	280-18218	06/06/2010 14:28	1	TAL DEN	DFB
A:8270C	280-4055-A-1-A		280-19069	280-18218	06/10/2010 18:07	1	TAL DEN	MGH
A:RSK-175	280-4055-I-1		280-19109		06/11/2010 11:31	1	TAL DEN	CK
P:3010A	280-4055-E-1-A		280-18561	280-18282	06/07/2010 15:00	1	TAL DEN	CGG
A:6010B	280-4055-E-1-A		280-18561	280-18282	06/08/2010 21:22	1	TAL DEN	JKH
A:300.0	280-4055-D-1		280-18772		06/08/2010 15:47	1	TAL DEN	EK
A:300.0	280-4055-D-1		280-18772		06/08/2010 21:50	10	TAL DEN	EK
A:353.2	280-4055-F-1		280-19804		06/17/2010 16:36	1	TAL DEN	LEJ
A:SM 2320B	280-4055-D-1		280-18722		06/09/2010 23:11	1	TAL DEN	MRD
A:SM 2510B	280-4055-D-1		280-18434		06/07/2010 18:01	1	TAL DEN	MRD
A:SM 2540C	280-4055-D-1		280-18037		06/04/2010 07:01	1	TAL DEN	BJD

Lab ID: 280-4055-1 MS

Client ID: LAKE 1

Sample Date/Time: 06/02/2010 16:05

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-4055-E-1-B MS		280-18561	280-18282	06/07/2010 15:00	1	TAL DEN	CGG
A:6010B	280-4055-E-1-B MS		280-18561	280-18282	06/08/2010 21:27	1	TAL DEN	JKH

Lab ID: 280-4055-1 MSD

Client ID: LAKE 1

Sample Date/Time: 06/02/2010 16:05

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-4055-E-1-C MSD		280-18561	280-18282	06/07/2010 15:00	1	TAL DEN	CGG
A:6010B	280-4055-E-1-C MSD		280-18561	280-18282	06/08/2010 21:29	1	TAL DEN	JKH

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
SDG: 200240886 // Terracon # 25087038

### Laboratory Chronicle

Lab ID: 280-4055-2

Client ID: IRRIGATION WELL 1

Sample Date/Time: 06/02/2010 16:30

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4055-H-2		280-18362		06/07/2010 16:20	1	TAL DEN	MD
A:8260B	280-4055-H-2		280-18362		06/07/2010 16:20	1	TAL DEN	MD
P:3520C	280-4055-B-2-A		280-19069	280-18218	06/06/2010 14:28	1	TAL DEN	DFB
A:8270C	280-4055-B-2-A		280-19069	280-18218	06/10/2010 18:26	1	TAL DEN	MGH
A:RSK-175	280-4055-I-2		280-19109		06/11/2010 11:36	1	TAL DEN	CK
P:3010A	280-4055-E-2-A		280-18561	280-18282	06/07/2010 15:00	1	TAL DEN	CGG
A:6010B	280-4055-E-2-A		280-18561	280-18282	06/08/2010 21:41	1	TAL DEN	JKH
A:300.0	280-4055-D-2		280-18772		06/08/2010 16:04	1	TAL DEN	EK
A:353.2	280-4055-F-2		280-19804		06/17/2010 17:53	1	TAL DEN	LEJ
A:SM 2320B	280-4055-D-2		280-18722		06/09/2010 23:19	1	TAL DEN	MRD
A:SM 2510B	280-4055-D-2		280-18909		06/11/2010 09:27	1	TAL DEN	MRD
A:SM 2540C	280-4055-D-2		280-18037		06/04/2010 07:01	1	TAL DEN	BJD

Lab ID: 280-4055-2 MS

Client ID: IRRIGATION WELL 1

Sample Date/Time: 06/02/2010 16:30

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-4055-D-2 MS		280-18772		06/08/2010 16:39	1	TAL DEN	EK

Lab ID: 280-4055-2 MSD

Client ID: IRRIGATION WELL 1

Sample Date/Time: 06/02/2010 16:30

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-4055-D-2 MSD		280-18772		06/08/2010 16:56	1	TAL DEN	EK

Lab ID: 280-4055-2 DU

Client ID: IRRIGATION WELL 1

Sample Date/Time: 06/02/2010 16:30

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-4055-D-2 DU		280-18772		06/08/2010 16:22	1	TAL DEN	EK
A:SM 2510B	280-4055-D-2 DU		280-18909		06/11/2010 09:27	1	TAL DEN	MRD

Lab ID: 280-4055-3

Client ID: TRIP BLANK

Sample Date/Time: 06/02/2010 00:00

Received Date/Time: 06/03/2010 08:39

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4055-A-3		280-18362		06/07/2010 16:41	1	TAL DEN	MD
A:8260B	280-4055-A-3		280-18362		06/07/2010 16:41	1	TAL DEN	MD

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
SDG: 200240886 // Terracon # 25087038

### Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-18362/5		280-18362		06/07/2010 08:37	1	TAL DEN	MD
A:8260B	MB 280-18362/5		280-18362		06/07/2010 08:37	1	TAL DEN	MD
P:3520C	MB 280-18218/1-A		280-19069	280-18218	06/06/2010 14:28	1	TAL DEN	DFB
A:8270C	MB 280-18218/1-A		280-19069	280-18218	06/10/2010 17:11	1	TAL DEN	MGH
A:RSK-175	MB 280-19109/4		280-19109		06/11/2010 11:27	1	TAL DEN	CK
P:3010A	MB 280-18282/1-A		280-18561	280-18282	06/07/2010 15:00	1	TAL DEN	CGG
A:6010B	MB 280-18282/1-A		280-18561	280-18282	06/08/2010 21:18	1	TAL DEN	JKH
A:300.0	MB 280-18772/6		280-18772		06/08/2010 15:30	1	TAL DEN	EK
A:353.2	MB 280-19804/146		280-19804		06/17/2010 15:58	1	TAL DEN	LEJ
A:353.2	MB 280-19804/197		280-19804		06/17/2010 17:35	1	TAL DEN	LEJ
A:SM 2320B	MB 280-18722/35		280-18722		06/09/2010 22:45	1	TAL DEN	MRD
A:SM 2510B	MB 280-18434/5		280-18434		06/07/2010 18:01	1	TAL DEN	MRD
A:SM 2510B	MB 280-18909/5		280-18909		06/11/2010 09:27	1	TAL DEN	MRD
A:SM 2540C	MB 280-18037/1		280-18037		06/04/2010 07:01	1	TAL DEN	BJD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-18362/4		280-18362		06/07/2010 07:34	1	TAL DEN	MD
A:8260B	LCS 280-18362/4		280-18362		06/07/2010 07:34	1	TAL DEN	MD
P:3520C	LCS 280-18218/2-A		280-19069	280-18218	06/06/2010 14:28	1	TAL DEN	DFB
A:8270C	LCS 280-18218/2-A		280-19069	280-18218	06/10/2010 10:59	1	TAL DEN	MGH
A:RSK-175	LCS 280-19109/2		280-19109		06/11/2010 11:18	1	TAL DEN	CK
P:3010A	LCS 280-18282/2-A		280-18561	280-18282	06/07/2010 15:00	1	TAL DEN	CGG
A:6010B	LCS 280-18282/2-A		280-18561	280-18282	06/08/2010 21:20	1	TAL DEN	JKH
A:300.0	LCS 280-18772/4		280-18772		06/08/2010 14:55	1	TAL DEN	EK
A:353.2	LCS 280-19804/147		280-19804		06/17/2010 15:59	1	TAL DEN	LEJ
A:353.2	LCS 280-19804/198		280-19804		06/17/2010 17:36	1	TAL DEN	LEJ
A:SM 2320B	LCS 280-18722/33		280-18722		06/09/2010 22:29	1	TAL DEN	MRD
A:SM 2510B	LCS 280-18434/3		280-18434		06/07/2010 18:01	1	TAL DEN	MRD
A:SM 2510B	LCS 280-18909/3		280-18909		06/11/2010 09:27	1	TAL DEN	MRD
A:SM 2540C	LCS 280-18037/2		280-18037		06/04/2010 07:01	1	TAL DEN	BJD

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
SDG: 200240886 // Terracon # 25087038

### Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:RSK-175	LCSD 280-19109/3		280-19109		06/11/2010 11:23	1	TAL DEN	CK
A:300.0	LCSD 280-18772/5		280-18772		06/08/2010 15:12	1	TAL DEN	EK
A:353.2	LCSD 280-19804/148		280-19804		06/17/2010 16:01	1	TAL DEN	LEJ
A:353.2	LCSD 280-19804/199		280-19804		06/17/2010 17:38	1	TAL DEN	LEJ
A:SM 2320B	LCSD 280-18722/34		280-18722		06/09/2010 22:39	1	TAL DEN	MRD
A:SM 2510B	LCSD 280-18434/4		280-18434		06/07/2010 18:01	1	TAL DEN	MRD
A:SM 2510B	LCSD 280-18909/4		280-18909		06/11/2010 09:27	1	TAL DEN	MRD
A:SM 2540C	LCSD 280-18037/3		280-18037		06/04/2010 07:01	1	TAL DEN	BJD

Lab ID: MRL

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-18772/3		280-18772		06/08/2010 14:38	1	TAL DEN	EK

Lab ID: MS

Client ID: N/A

Sample Date/Time: 06/01/2010 11:40

Received Date/Time: 06/03/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4088-A-4 MS		280-18362		06/07/2010 10:23	1	TAL DEN	MD
A:8260B	280-4088-A-4 MS		280-18362		06/07/2010 10:23	1	TAL DEN	MD
P:3520C	280-4059-L-1-A MS		280-19069	280-18218	06/06/2010 14:28	1	TAL DEN	DFB
A:8270C	280-4059-L-1-A MS		280-19069	280-18218	06/10/2010 11:17	1	TAL DEN	MGH
A:RSK-175	280-4256-B-2 MS	DL	280-19109		06/11/2010 13:37	50	TAL DEN	CK
A:353.2	280-3956-A-8 MS		280-19804		06/17/2010 16:31	1	TAL DEN	LEJ
A:353.2	280-3927-A-5 MS		280-19804		06/17/2010 17:50	1	TAL DEN	LEJ

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 06/01/2010 11:40

Received Date/Time: 06/03/2010 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4088-B-4 MSD		280-18362		06/07/2010 10:44	1	TAL DEN	MD
A:8260B	280-4088-B-4 MSD		280-18362		06/07/2010 10:44	1	TAL DEN	MD
P:3520C	280-4059-K-1-A MSD		280-19069	280-18218	06/06/2010 14:28	1	TAL DEN	DFB
A:8270C	280-4059-K-1-A MSD		280-19069	280-18218	06/10/2010 11:36	1	TAL DEN	MGH
A:RSK-175	280-4256-B-2 MSD	DL	280-19109		06/11/2010 13:41	50	TAL DEN	CK
A:353.2	280-3956-A-8 MSD		280-19804		06/17/2010 16:33	1	TAL DEN	LEJ
A:353.2	280-3927-A-5 MSD		280-19804		06/17/2010 17:51	1	TAL DEN	LEJ

## Quality Control Results

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1  
SDG: 200240886 // Terracon # 25087038

### Laboratory Chronicle

Lab ID: DU

Client ID: N/A

Sample Date/Time: 06/04/2010 13:13

Received Date/Time: 06/05/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-4160-B-3 DU		280-18722		06/09/2010 23:02	1	TAL DEN	MRD
A:SM 2510B	280-4064-B-3 DU		280-18434		06/07/2010 18:01	1	TAL DEN	MRD
A:SM 2540C	280-4030-A-1 DU		280-18037		06/04/2010 07:01	1	TAL DEN	BJD

#### Lab References:

TAL DEN = TestAmerica Denver

# Method 8260B

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Volatile Organic Compounds (GC/MS)  
by Method 8260B

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\060710.b\g2\_1787.D  
 Lab Smp Id: 280-4055-h-1  
 Inj Date : 07-JUN-2010 15:59  
 Operator : DOBRANSKYM Inst ID: GCMS2.i  
 Smp Info : 280-4055-h-1,,PH<2  
 Misc Info :  
 Comment :  
 Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\060710.b\8260B-H2O.m  
 Meth Date : 07-Jun-2010 07:44 GCMS2.i Quant Type: ISTD  
 Cal Date : 25-MAY-2010 13:02 Cal File: g2\_1369.D  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: TALS.sub  
 Target Version: 4.14  
 Processing Host: DENPC096

Concentration Formula: Amt \* DF \* Vp/Vs \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
*****	****	----	-----	-----	-----	-----	-----
* 58 Fluorobenzene	96	7.988	7.981 (1.000)		1134652	12.5000	
* 84 Chlorobenzene-d5	119	10.262	10.255 (1.000)		208222	12.5000	
* 109 1,4-Dichlorobenzene-d4	152	12.149	12.135 (1.000)		246800	12.5000	
\$ 48 Dibromofluoromethane (Surr)	111	7.423	7.423 (0.929)		213591	12.2206	12.2206
\$ 54 1,2-Dichloroethane-d4	65	7.723	7.716 (0.967)		195891	13.5012	13.5012
\$ 72 Toluene-d8	98	9.161	9.154 (0.893)		1079493	11.4442	11.4442
\$ 95 4-Bromofluorobenzene (Surr)	95	11.148	11.141 (1.086)		305866	11.9821	11.9821
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
M 3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M 4 Trihalomethanes (total)	100	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	Compound Not Detected.					
8 Vinyl Chloride	62	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	Compound Not Detected.					
11 Chloroethane	64	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Ethanol	45	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT	SIG	CONCENTRATIONS					
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							( ug/L)	( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	
18 Acrolein	56		Compound Not Detected.					
20 Acetone	43		5.693	5.679	(0.713)	12508	2.14779	2.14779(a)
19 Trichlorotrifluoroethane	151		Compound Not Detected.					
21 2-propanol	45		Compound Not Detected.					
22 1,1-Dichloroethene	96		Compound Not Detected.					
23 Iodomethane	142		Compound Not Detected.					
24 Acetonitrile	41		Compound Not Detected.					
25 Methyl Acetate	43		Compound Not Detected.					
27 Carbon Disulfide	76		Compound Not Detected.					
26 Allyl Chloride	41		Compound Not Detected.					
28 tert-Butyl alcohol	59		Compound Not Detected.					
29 Methylene Chloride	84		Compound Not Detected.					
30 Acrylonitrile	53		Compound Not Detected.					
31 Methyl t-butyl ether	73		Compound Not Detected.					
32 trans-1,2-Dichloroethene	96		Compound Not Detected.					
33 Hexane	57		Compound Not Detected.					
34 Vinyl acetate	43		Compound Not Detected.					
35 Isopropyl ether	87		Compound Not Detected.					
36 1,1-Dichloroethane	63		Compound Not Detected.					
37 Chloroprene	53		Compound Not Detected.					
38 ETBE	59		Compound Not Detected.					
40 2-Butanone	43		Compound Not Detected.					
39 Ethyl Acetate	43		Compound Not Detected.					
42 cis-1,2-Dichloroethene	96		Compound Not Detected.					
41 Propionitrile	54		Compound Not Detected.					
43 2,2-Dichloropropane	77		Compound Not Detected.					
44 Methacrylonitrile	41		Compound Not Detected.					
45 Bromochloromethane	128		Compound Not Detected.					
46 Chloroform	83		Compound Not Detected.					
47 Tetrahydrofuran	42		Compound Not Detected.					
50 1,1,1-Trichloroethane	97		Compound Not Detected.					
49 Isobutanol	41		Compound Not Detected.					
51 Cyclohexane	56		Compound Not Detected.					
52 1,1-Dichloropropene	75		Compound Not Detected.					
53 Carbon Tetrachloride	117		Compound Not Detected.					
55 1,2-Dichloroethane	62		Compound Not Detected.					
57 Benzene	78		Compound Not Detected.					
56 TAME	73		Compound Not Detected.					
59 n-Butanol	56		Compound Not Detected.					
60 Trichloroethene	130		Compound Not Detected.					
61 2-Pentanone	43		Compound Not Detected.					
62 Methyl Methacrylate	100		Compound Not Detected.					
63 1,2-Dichloropropane	63		Compound Not Detected.					
64 Methyl Cyclohexane	55		Compound Not Detected.					
65 1,4-Dioxane	88		Compound Not Detected.					
66 Dibromomethane	93		Compound Not Detected.					
67 Bromodichloromethane	83		Compound Not Detected.					
68 2-nitropropane	41		Compound Not Detected.					
69 2-Chloroethyl vinyl ether	63		Compound Not Detected.					
70 cis-1,3-Dichloropropene	75		Compound Not Detected.					
71 4-Methyl-2-pentanone	43		Compound Not Detected.					
73 Toluene	91		Compound Not Detected.					
75 trans-1,3-Dichloropropene	75		Compound Not Detected.					
74 Ethyl methacrylate	69		Compound Not Detected.					

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
76 1,1,2-Trichloroethane	97				Compound Not Detected.			
77 2-Hexanone	43				Compound Not Detected.			
78 1,3-Dichloropropane	76				Compound Not Detected.			
79 Tetrachloroethene	164				Compound Not Detected.			
80 Dibromochloromethane	129				Compound Not Detected.			
81 Tetrahydrothiophene	60				Compound Not Detected.			
82 1,2-Dibromoethane	107				Compound Not Detected.			
83 1-Chlorohexane	91				Compound Not Detected.			
85 Chlorobenzene	112				Compound Not Detected.			
86 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
87 Ethylbenzene	106				Compound Not Detected.			
88 m and p-Xylene	106				Compound Not Detected.			
90 o-Xylene	106				Compound Not Detected.			
89 Styrene	104				Compound Not Detected.			
91 Bromoform	173				Compound Not Detected.			
92 isopropyl benzene	105				Compound Not Detected.			
93 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
94 Cyclohexanone	55				Compound Not Detected.			
96 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
97 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
98 1,2,3-Trichloropropane	110				Compound Not Detected.			
100 Bromobenzene	156				Compound Not Detected.			
99 n-Propylbenzene	120				Compound Not Detected.			
102 2-Chlorotoluene	126				Compound Not Detected.			
101 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
103 4-Chlorotoluene	126				Compound Not Detected.			
104 tert-Butylbenzene	119				Compound Not Detected.			
105 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
106 sec-Butylbenzene	134				Compound Not Detected.			
107 4-Isopropyltoluene	119				Compound Not Detected.			
108 1,3-Dichlorobenzene	146				Compound Not Detected.			
111 1,4-dichlorobenzene	146				Compound Not Detected.			
110 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
112 n-Butylbenzene	91				Compound Not Detected.			
113 1,2-Dichlorobenzene	146				Compound Not Detected.			
114 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
115 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
116 Hexachlorobutadiene	225				Compound Not Detected.			
117 Naphthalene	128				Compound Not Detected.			
118 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

#### QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

Data File: g2\_1787.D

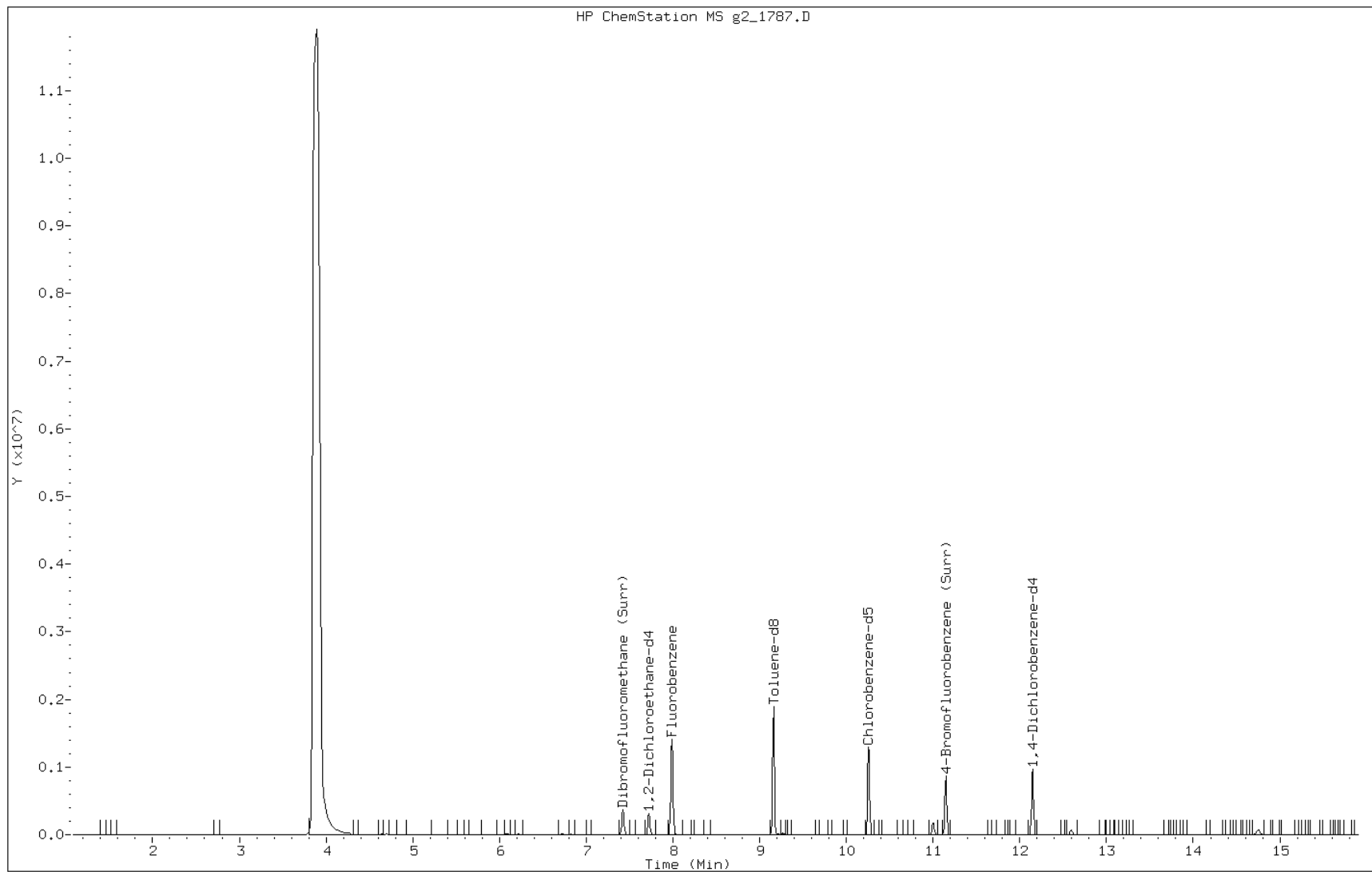
Date: 07-JUN-2010 15:59

Client ID:

Instrument: GCMS2.i

Sample Info: 280-4055-h-1,,PH<2

Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\060710.b\g2\_1788.D  
 Lab Smp Id: 280-4055-h-2  
 Inj Date : 07-JUN-2010 16:20  
 Operator : DOBRANSKYM Inst ID: GCMS2.i  
 Smp Info : 280-4055-h-2,,PH<2  
 Misc Info :  
 Comment :  
 Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\060710.b\8260B-H2O.m  
 Meth Date : 07-Jun-2010 07:44 GCMS2.i Quant Type: ISTD  
 Cal Date : 25-MAY-2010 13:02 Cal File: g2\_1369.D  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: TALS.sub  
 Target Version: 4.14  
 Processing Host: DENPC096

Concentration Formula: Amt \* DF \* Vp/Vs \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
*****	****	----	-----	-----	-----	-----	-----
* 58 Fluorobenzene	96	7.988	7.981 (1.000)		1157822	12.5000	
* 84 Chlorobenzene-d5	119	10.255	10.255 (1.000)		218832	12.5000	
* 109 1,4-Dichlorobenzene-d4	152	12.150	12.135 (1.000)		259300	12.5000	
\$ 48 Dibromofluoromethane (Surr)	111	7.423	7.423 (0.929)		212903	11.9375	11.9375
\$ 54 1,2-Dichloroethane-d4	65	7.724	7.716 (0.967)		193550	13.0729	13.0729
\$ 72 Toluene-d8	98	9.161	9.154 (0.893)		1094746	11.0432	11.0432
\$ 95 4-Bromofluorobenzene (Surr)	95	11.148	11.141 (1.087)		312511	11.6489	11.6489
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
M 3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M 4 Trihalomethanes (total)	100	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	Compound Not Detected.					
8 Vinyl Chloride	62	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	Compound Not Detected.					
11 Chloroethane	64	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Ethanol	45	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT	SIG					CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
18 Acrolein	56		Compound	Not	Detected.			
20 Acetone	43		Compound	Not	Detected.			
19 Trichlorotrifluoroethane	151		Compound	Not	Detected.			
21 2-propanol	45		Compound	Not	Detected.			
22 1,1-Dichloroethene	96		Compound	Not	Detected.			
23 Iodomethane	142		Compound	Not	Detected.			
24 Acetonitrile	41		Compound	Not	Detected.			
25 Methyl Acetate	43		Compound	Not	Detected.			
27 Carbon Disulfide	76		Compound	Not	Detected.			
26 Allyl Chloride	41		Compound	Not	Detected.			
28 tert-Butyl alcohol	59		Compound	Not	Detected.			
29 Methylene Chloride	84		Compound	Not	Detected.			
30 Acrylonitrile	53		Compound	Not	Detected.			
31 Methyl t-butyl ether	73		Compound	Not	Detected.			
32 trans-1,2-Dichloroethene	96		Compound	Not	Detected.			
33 Hexane	57		Compound	Not	Detected.			
34 Vinyl acetate	43		Compound	Not	Detected.			
35 Isopropyl ether	87		Compound	Not	Detected.			
36 1,1-Dichloroethane	63		Compound	Not	Detected.			
37 Chloroprene	53		Compound	Not	Detected.			
38 ETBE	59		Compound	Not	Detected.			
40 2-Butanone	43		Compound	Not	Detected.			
39 Ethyl Acetate	43		Compound	Not	Detected.			
42 cis-1,2-Dichloroethene	96		Compound	Not	Detected.			
41 Propionitrile	54		Compound	Not	Detected.			
43 2,2-Dichloropropane	77		Compound	Not	Detected.			
44 Methacrylonitrile	41		Compound	Not	Detected.			
45 Bromochloromethane	128		Compound	Not	Detected.			
46 Chloroform	83		Compound	Not	Detected.			
47 Tetrahydrofuran	42		Compound	Not	Detected.			
50 1,1,1-Trichloroethane	97		Compound	Not	Detected.			
49 Isobutanol	41		Compound	Not	Detected.			
51 Cyclohexane	56		Compound	Not	Detected.			
52 1,1-Dichloropropene	75		Compound	Not	Detected.			
53 Carbon Tetrachloride	117		Compound	Not	Detected.			
55 1,2-Dichloroethane	62		Compound	Not	Detected.			
57 Benzene	78		Compound	Not	Detected.			
56 TAME	73		Compound	Not	Detected.			
59 n-Butanol	56		Compound	Not	Detected.			
60 Trichloroethene	130		Compound	Not	Detected.			
61 2-Pentanone	43		Compound	Not	Detected.			
62 Methyl Methacrylate	100		Compound	Not	Detected.			
63 1,2-Dichloropropane	63		Compound	Not	Detected.			
64 Methyl Cyclohexane	55		Compound	Not	Detected.			
65 1,4-Dioxane	88		Compound	Not	Detected.			
66 Dibromomethane	93		Compound	Not	Detected.			
67 Bromodichloromethane	83		Compound	Not	Detected.			
68 2-nitropropane	41		Compound	Not	Detected.			
69 2-Chloroethyl vinyl ether	63		Compound	Not	Detected.			
70 cis-1,3-Dichloropropene	75		Compound	Not	Detected.			
71 4-Methyl-2-pentanone	43		Compound	Not	Detected.			
73 Toluene	91		Compound	Not	Detected.			
75 trans-1,3-Dichloropropene	75		Compound	Not	Detected.			
74 Ethyl methacrylate	69		Compound	Not	Detected.			

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
76 1,1,2-Trichloroethane	97				Compound Not Detected.			
77 2-Hexanone	43				Compound Not Detected.			
78 1,3-Dichloropropane	76				Compound Not Detected.			
79 Tetrachloroethene	164				Compound Not Detected.			
80 Dibromochloromethane	129				Compound Not Detected.			
81 Tetrahydrothiophene	60				Compound Not Detected.			
82 1,2-Dibromoethane	107				Compound Not Detected.			
83 1-Chlorohexane	91				Compound Not Detected.			
85 Chlorobenzene	112				Compound Not Detected.			
86 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
87 Ethylbenzene	106				Compound Not Detected.			
88 m and p-Xylene	106				Compound Not Detected.			
90 o-Xylene	106				Compound Not Detected.			
89 Styrene	104				Compound Not Detected.			
91 Bromoform	173				Compound Not Detected.			
92 isopropyl benzene	105				Compound Not Detected.			
93 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
94 Cyclohexanone	55				Compound Not Detected.			
96 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
97 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
98 1,2,3-Trichloropropane	110				Compound Not Detected.			
100 Bromobenzene	156				Compound Not Detected.			
99 n-Propylbenzene	120				Compound Not Detected.			
102 2-Chlorotoluene	126				Compound Not Detected.			
101 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
103 4-Chlorotoluene	126				Compound Not Detected.			
104 tert-Butylbenzene	119				Compound Not Detected.			
105 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
106 sec-Butylbenzene	134				Compound Not Detected.			
107 4-Isopropyltoluene	119				Compound Not Detected.			
108 1,3-Dichlorobenzene	146				Compound Not Detected.			
111 1,4-dichlorobenzene	146				Compound Not Detected.			
110 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
112 n-Butylbenzene	91				Compound Not Detected.			
113 1,2-Dichlorobenzene	146				Compound Not Detected.			
114 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
115 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
116 Hexachlorobutadiene	225				Compound Not Detected.			
117 Naphthalene	128				Compound Not Detected.			
118 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

Data File: g2\_1788.D

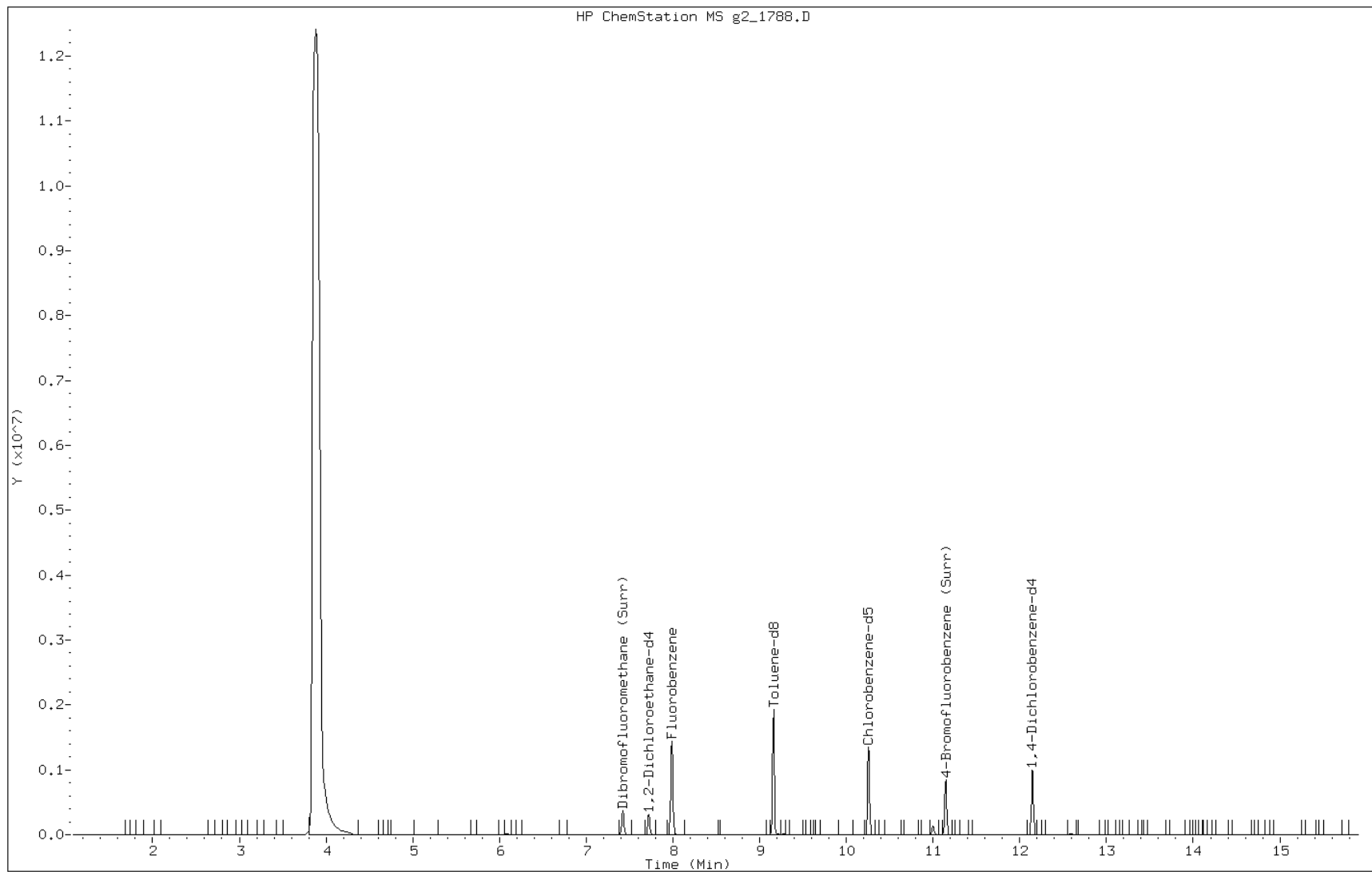
Date: 07-JUN-2010 16:20

Client ID:

Instrument: GCMS2.i

Sample Info: 280-4055-h-2,,PH<2

Operator: DOBRANSKYM



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\060710.b\g2\_1789.D  
 Lab Smp Id: 280-4055-a-3  
 Inj Date : 07-JUN-2010 16:41  
 Operator : DOBRANSKYM Inst ID: GCMS2.i  
 Smp Info : 280-4055-a-3,,PH<2  
 Misc Info :  
 Comment :  
 Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\060710.b\8260B-H2O.m  
 Meth Date : 07-Jun-2010 07:44 GCMS2.i Quant Type: ISTD  
 Cal Date : 25-MAY-2010 13:02 Cal File: g2\_1369.D  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: TALS.sub  
 Target Version: 4.14  
 Processing Host: DENPC096

Concentration Formula: Amt \* DF \* Vp/Vs \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
*****	****	----	-----	-----	-----	-----	-----
* 58 Fluorobenzene	96	7.988	7.981 (1.000)		1125289	12.5000	
* 84 Chlorobenzene-d5	119	10.255	10.255 (1.000)		206567	12.5000	
* 109 1,4-Dichlorobenzene-d4	152	12.149	12.135 (1.000)		251315	12.5000	
\$ 48 Dibromofluoromethane (Surr)	111	7.423	7.423 (0.929)		219473	12.6617	12.6617
\$ 54 1,2-Dichloroethane-d4	65	7.723	7.716 (0.967)		194179	13.4945	13.4945
\$ 72 Toluene-d8	98	9.161	9.154 (0.893)		1113859	11.9031	11.9031
\$ 95 4-Bromofluorobenzene (Surr)	95	11.148	11.141 (1.087)		314968	12.4375	12.4375
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
M 3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M 4 Trihalomethanes (total)	100	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	Compound Not Detected.					
8 Vinyl Chloride	62	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	Compound Not Detected.					
11 Chloroethane	64	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Ethanol	45	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT	SIG					CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
18 Acrolein	56					Compound Not Detected.		
20 Acetone	43					Compound Not Detected.		
19 Trichlorotrifluoroethane	151					Compound Not Detected.		
21 2-propanol	45					Compound Not Detected.		
22 1,1-Dichloroethene	96					Compound Not Detected.		
23 Iodomethane	142					Compound Not Detected.		
24 Acetonitrile	41					Compound Not Detected.		
25 Methyl Acetate	43					Compound Not Detected.		
27 Carbon Disulfide	76					Compound Not Detected.		
26 Allyl Chloride	41					Compound Not Detected.		
28 tert-Butyl alcohol	59					Compound Not Detected.		
29 Methylene Chloride	84					Compound Not Detected.		
30 Acrylonitrile	53					Compound Not Detected.		
31 Methyl t-butyl ether	73					Compound Not Detected.		
32 trans-1,2-Dichloroethene	96					Compound Not Detected.		
33 Hexane	57					Compound Not Detected.		
34 Vinyl acetate	43					Compound Not Detected.		
35 Isopropyl ether	87					Compound Not Detected.		
36 1,1-Dichloroethane	63					Compound Not Detected.		
37 Chloroprene	53					Compound Not Detected.		
38 ETBE	59					Compound Not Detected.		
40 2-Butanone	43					Compound Not Detected.		
39 Ethyl Acetate	43					Compound Not Detected.		
42 cis-1,2-Dichloroethene	96					Compound Not Detected.		
41 Propionitrile	54					Compound Not Detected.		
43 2,2-Dichloropropane	77					Compound Not Detected.		
44 Methacrylonitrile	41					Compound Not Detected.		
45 Bromochloromethane	128					Compound Not Detected.		
46 Chloroform	83					Compound Not Detected.		
47 Tetrahydrofuran	42					Compound Not Detected.		
50 1,1,1-Trichloroethane	97					Compound Not Detected.		
49 Isobutanol	41					Compound Not Detected.		
51 Cyclohexane	56					Compound Not Detected.		
52 1,1-Dichloropropene	75					Compound Not Detected.		
53 Carbon Tetrachloride	117					Compound Not Detected.		
55 1,2-Dichloroethane	62					Compound Not Detected.		
57 Benzene	78					Compound Not Detected.		
56 TAME	73					Compound Not Detected.		
59 n-Butanol	56					Compound Not Detected.		
60 Trichloroethene	130					Compound Not Detected.		
61 2-Pentanone	43					Compound Not Detected.		
62 Methyl Methacrylate	100					Compound Not Detected.		
63 1,2-Dichloropropane	63					Compound Not Detected.		
64 Methyl Cyclohexane	55					Compound Not Detected.		
65 1,4-Dioxane	88					Compound Not Detected.		
66 Dibromomethane	93					Compound Not Detected.		
67 Bromodichloromethane	83					Compound Not Detected.		
68 2-nitropropane	41					Compound Not Detected.		
69 2-Chloroethyl vinyl ether	63					Compound Not Detected.		
70 cis-1,3-Dichloropropene	75					Compound Not Detected.		
71 4-Methyl-2-pentanone	43					Compound Not Detected.		
73 Toluene	91					Compound Not Detected.		
75 trans-1,3-Dichloropropene	75					Compound Not Detected.		
74 Ethyl methacrylate	69					Compound Not Detected.		

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
76 1,1,2-Trichloroethane	97				Compound Not Detected.			
77 2-Hexanone	43				Compound Not Detected.			
78 1,3-Dichloropropane	76				Compound Not Detected.			
79 Tetrachloroethene	164				Compound Not Detected.			
80 Dibromochloromethane	129				Compound Not Detected.			
81 Tetrahydrothiophene	60				Compound Not Detected.			
82 1,2-Dibromoethane	107				Compound Not Detected.			
83 1-Chlorohexane	91				Compound Not Detected.			
85 Chlorobenzene	112				Compound Not Detected.			
86 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
87 Ethylbenzene	106				Compound Not Detected.			
88 m and p-Xylene	106				Compound Not Detected.			
90 o-Xylene	106				Compound Not Detected.			
89 Styrene	104				Compound Not Detected.			
91 Bromoform	173				Compound Not Detected.			
92 isopropyl benzene	105				Compound Not Detected.			
93 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
94 Cyclohexanone	55				Compound Not Detected.			
96 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
97 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
98 1,2,3-Trichloropropane	110				Compound Not Detected.			
100 Bromobenzene	156				Compound Not Detected.			
99 n-Propylbenzene	120				Compound Not Detected.			
102 2-Chlorotoluene	126				Compound Not Detected.			
101 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
103 4-Chlorotoluene	126				Compound Not Detected.			
104 tert-Butylbenzene	119				Compound Not Detected.			
105 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
106 sec-Butylbenzene	134				Compound Not Detected.			
107 4-Isopropyltoluene	119				Compound Not Detected.			
108 1,3-Dichlorobenzene	146				Compound Not Detected.			
111 1,4-dichlorobenzene	146				Compound Not Detected.			
110 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
112 n-Butylbenzene	91				Compound Not Detected.			
113 1,2-Dichlorobenzene	146				Compound Not Detected.			
114 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
115 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
116 Hexachlorobutadiene	225				Compound Not Detected.			
117 Naphthalene	128				Compound Not Detected.			
118 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

Data File: g2\_1789.D

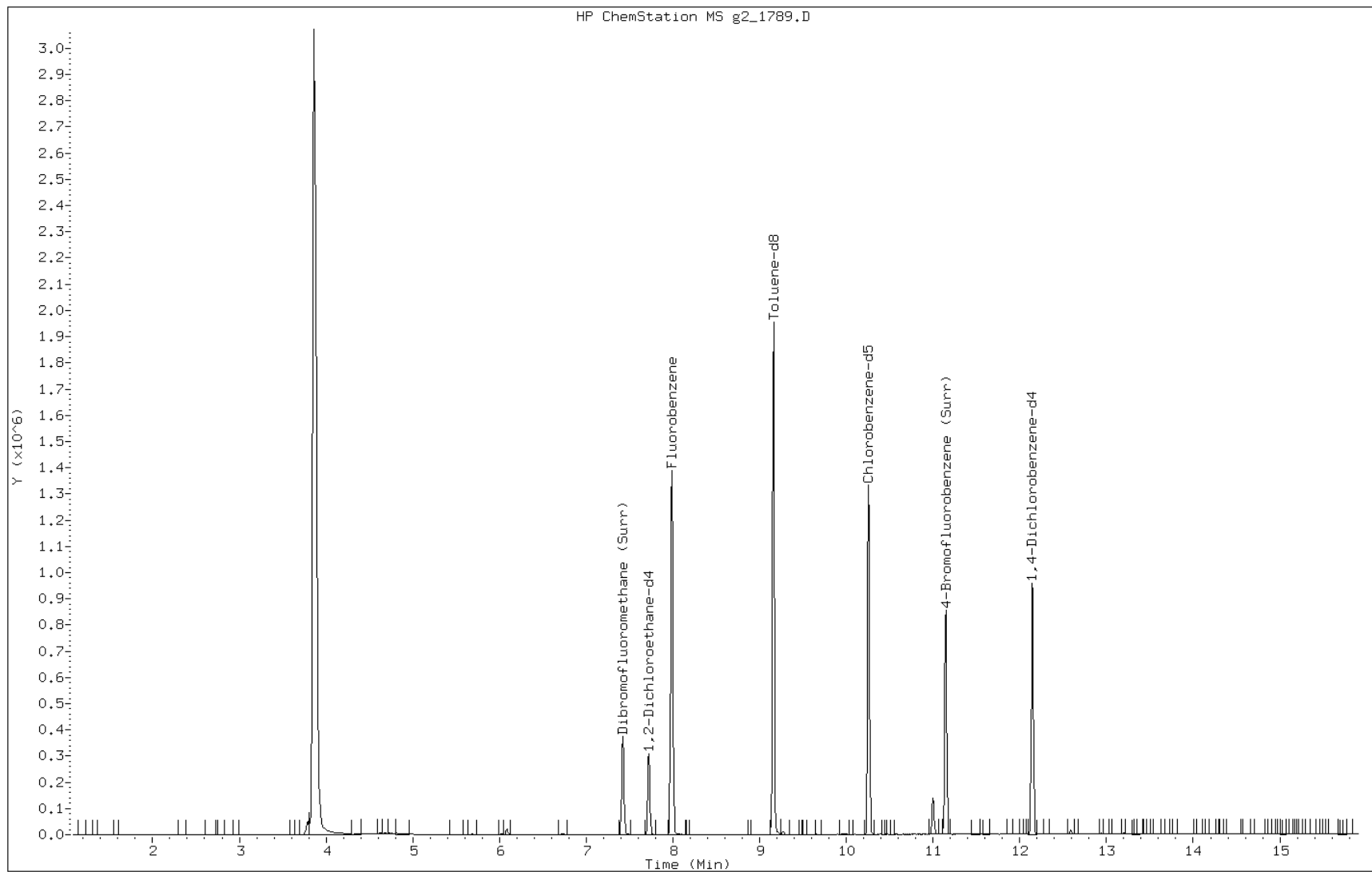
Date: 07-JUN-2010 16:41

Client ID:

Instrument: GCMS2.i

Sample Info: 280-4055-a-3,,PH<2

Operator: DOBRANSKYM



# Method 8270C

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Semivolatile Organic Compounds  
(GC/MS) by Method 8270C

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\D.i\061010.b\D5606.D  
Lab Smp Id: 280-4055-A-1-A Client Smp ID: LAKE 1  
Inj Date : 10-JUN-2010 18:07  
Operator : hoffmanm Inst ID: D.i  
Smp Info : 280-4055-A-1-A  
Misc Info : 280-4055-A-1-A  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : \\DenSvr03\Public\chem\MSS\D.i\061010.b\8270C.m  
Meth Date : 11-Jun-2010 07:57 hoffmanm Quant Type: ISTD  
Cal Date : 26-MAY-2010 16:31 Cal File: D5360.D  
Als bottle: 30  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: HSL-9H.sub  
Target Version: 4.14  
Processing Host: DENPC106

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1059.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
*****	----	----	-----	-----	-----	-----	-----
* 26 1,4-Dichlorobenzene-d4	152	4.114	4.116 (1.000)		352089	40.0000	
* 58 Naphthalene-d8	136	5.321	5.318 (1.000)		1241080	40.0000	
* 96 Acenaphthene-d10	164	6.967	6.968 (1.000)		847461	40.0000	
* 135 Phenanthrene-d10	188	8.179	8.176 (1.000)		1366407	40.0000	
* 166 Chrysene-d12	240	10.375	10.334 (1.000)		1432487	40.0000	
* 179 Perylene-d12	264	11.647	11.568 (1.000)		1394746	40.0000	
\$ 8 2-Fluorophenol	112	2.976	2.978 (0.723)		1305909	104.201	98.3958
\$ 15 Phenol-d5	99	3.751	3.753 (0.912)		1692729	106.054	100.145
\$ 43 Nitrobenzene-d5	82	4.632	4.629 (0.871)		1056821	70.9307	66.9789
\$ 81 2-Fluorobiphenyl	172	6.347	6.349 (0.911)		1770506	59.8372	56.5035
\$ 118 2,4,6-Tribromophenol	330	7.624	7.626 (1.094)		521174	107.721	101.720
\$ 154 Terphenyl-d14	244	9.430	9.426 (0.909)		2199022	71.3336	67.3594
\$ 29 1,2-Dichlorobenzene-d4	152	4.258	4.260 (1.035)		535143	55.0868	52.0178
\$ 22 2-Chlorophenol-d4	132	3.911	3.913 (0.951)		1330712	95.9639	90.6174
4 1,4-Dioxane	88				Compound Not Detected.		
6 Pyridine	79				Compound Not Detected.		
5 N-Nitrosodimethylamine	74				Compound Not Detected.		
18 Aniline	93				Compound Not Detected.		
16 Phenol	94				Compound Not Detected.		
20 Bis(2-chloroethyl) ether	93				Compound Not Detected.		
23 2-Chlorophenol	128				Compound Not Detected.		
25 1,3-Dichlorobenzene	146				Compound Not Detected.		

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
27 1,4-Dichlorobenzene	146				Compound Not Detected.			
28 Benzyl alcohol	108				Compound Not Detected.			
30 1,2-Dichlorobenzene	146				Compound Not Detected.			
32 2-Methylphenol	108				Compound Not Detected.			
34 2,2'-oxybis(1-chloropropane)	45				Compound Not Detected.			
138 3-Methylphenol	108				Compound Not Detected.			
36 4-Methylphenol	108				Compound Not Detected.			
139 3 & 4-Methylphenol	108				Compound Not Detected.			
37 N-nitrosodi-n-propylamine	70				Compound Not Detected.			
38 Acetophenone	105				Compound Not Detected.			
41 Hexachloroethane	117				Compound Not Detected.			
44 Nitrobenzene	77				Compound Not Detected.			
47 Isophorone	82				Compound Not Detected.			
49 2-Nitrophenol	139				Compound Not Detected.			
50 2,4-Dimethylphenol	107				Compound Not Detected.			
52 Bis(2-chloroethoxy)methane	93				Compound Not Detected.			
53 Benzoic acid	122				Compound Not Detected.			
54 2,4-Dichlorophenol	162				Compound Not Detected.			
57 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
59 Naphthalene	128				Compound Not Detected.			
60 4-Chloroaniline	127				Compound Not Detected.			
62 Hexachlorobutadiene	225				Compound Not Detected.			
67 Caprolactam	55				Compound Not Detected.			
68 4-Chloro-3-methylphenol	107				Compound Not Detected.			
71 2-Methylnaphthalene	142				Compound Not Detected.			
72 1-Methylnaphthalene	142				Compound Not Detected.			
74 Hexachlorocyclopentadiene	237				Compound Not Detected.			
78 2,4,6-Trichlorophenol	196				Compound Not Detected.			
80 2,4,5-Trichlorophenol	196				Compound Not Detected.			
86 2-Chloronaphthalene	162				Compound Not Detected.			
88 2-Nitroaniline	65				Compound Not Detected.			
91 Dimethyl phthalate	163				Compound Not Detected.			
93 2,6-Dinitrotoluene	165				Compound Not Detected.			
94 Acenaphthylene	152				Compound Not Detected.			
95 3-Nitroaniline	138				Compound Not Detected.			
97 Acenaphthene	153				Compound Not Detected.			
98 2,4-Dinitrophenol	184				Compound Not Detected.			
99 4-Nitrophenol	109				Compound Not Detected.			
101 2,4-Dinitrotoluene	165				Compound Not Detected.			
102 Dibenzofuran	168				Compound Not Detected.			
107 Diethyl phthalate	149				Compound Not Detected.			
109 4-Chlorophenyl phenyl ether	204				Compound Not Detected.			
110 Fluorene	166				Compound Not Detected.			
112 4-Nitroaniline	138				Compound Not Detected.			
113 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.			
115 N-nitrosodiphenylamine	169				Compound Not Detected.			
116 Azobenzene	77				Compound Not Detected.			
234 1,2-DPH(as Azobenzene)	77				Compound Not Detected.			
124 4-Bromophenyl phenyl ether	248				Compound Not Detected.			
125 Hexachlorobenzene	284				Compound Not Detected.			
127 Atrazine	200				Compound Not Detected.			
129 Pentachlorophenol	266				Compound Not Detected.			
136 Phenanthrene	178				Compound Not Detected.			
137 Anthracene	178				Compound Not Detected.			

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
140 Carbazole	167		Compound	Not	Detected.			
143 Di-n-butyl phthalate	149		Compound	Not	Detected.			
149 Fluoranthene	202		Compound	Not	Detected.			
151 Benzidine	184		Compound	Not	Detected.			
152 Pyrene	202		Compound	Not	Detected.			
159 Butyl benzyl phthalate	149		Compound	Not	Detected.			
164 3 3'-Dichlorobenzidine	252		Compound	Not	Detected.			
165 Benzo(a)anthracene	228		Compound	Not	Detected.			
167 Chrysene	228		Compound	Not	Detected.			
162 Bis(2-ethylhexyl) phthalate	149	10.252	10.243	(0.988)		31140	3.42769	3.23672(a)
168 Di-n-octyl phthalate	149		Compound	Not	Detected.			
171 Benzo(b)fluoranthene	252		Compound	Not	Detected.			
172 Benzo(k)fluoranthene	252		Compound	Not	Detected.			
178 Benzo(a)pyrene	252		Compound	Not	Detected.			
186 Indeno(1,2,3-cd)pyrene	276		Compound	Not	Detected.			
185 Dibenz(a,h)anthracene	278		Compound	Not	Detected.			
188 Benzo(g,h,i)perylene	276		Compound	Not	Detected.			

#### QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

Data File: D5606.D

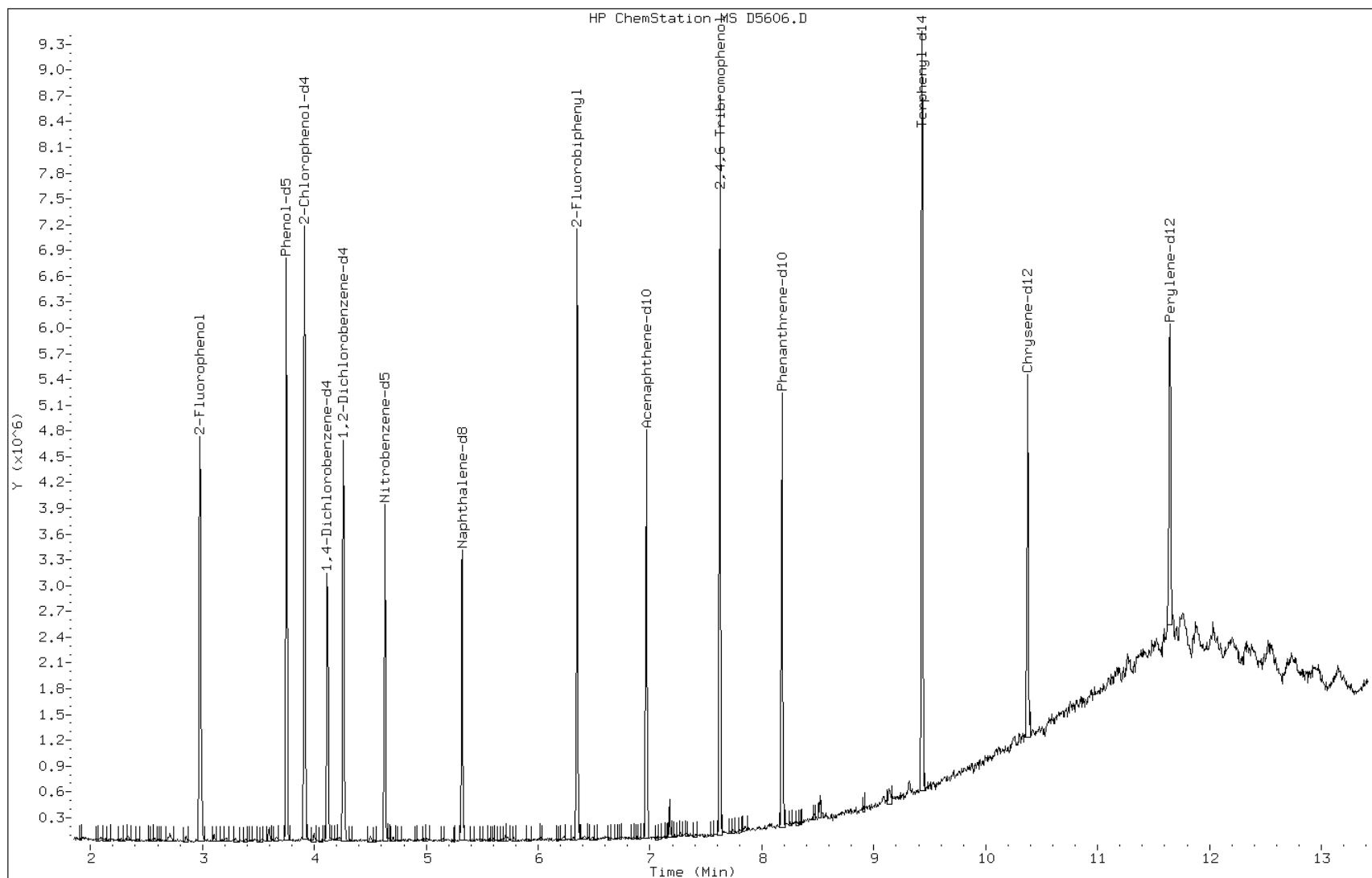
Date: 10-JUN-2010 18:07

Client ID: LAKE 1

Instrument: D.i

Sample Info: 280-4055-A-1-A

Operator: hoffmanm



Data File: D5606.D

Date: 10-JUN-2010 18:07

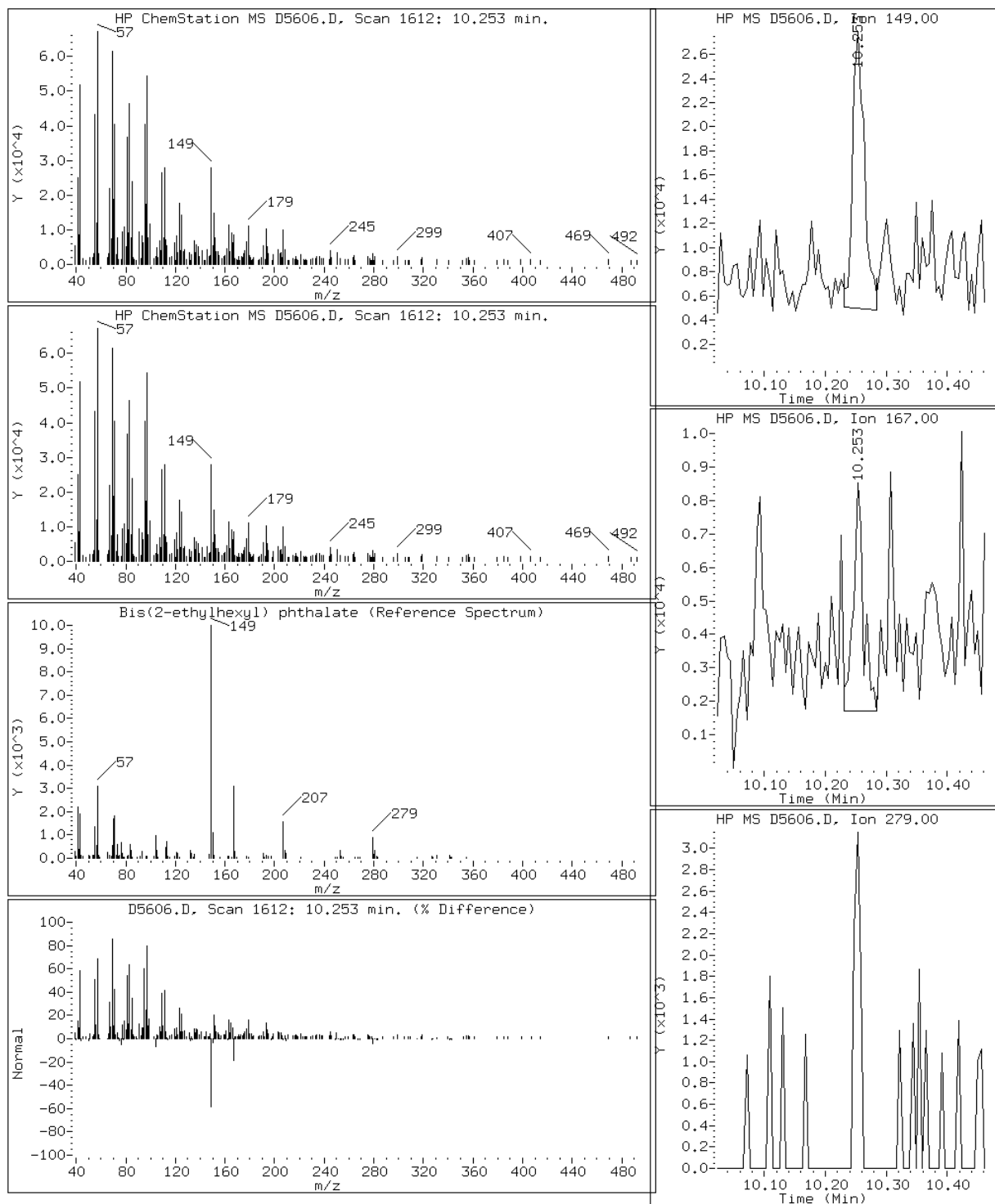
Client ID: LAKE 1

Instrument: D.i

Sample Info: 280-4055-A-1-A

Operator: hoffmannm

162 Bis(2-ethylhexyl) phthalate



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\D.i\061010.b\D5607.D  
 Lab Smp Id: 280-4055-B-2-A Client Smp ID: IRRIGATION WELL 1  
 Inj Date : 10-JUN-2010 18:26  
 Operator : hoffmanm Inst ID: D.i  
 Smp Info : 280-4055-B-2-A  
 Misc Info : 280-4055-B-2-A  
 Comment : SOP#CORP-MS-0001DEN, revision1.1  
 Method : \\DenSvr03\Public\chem\MSS\D.i\061010.b\8270C.m  
 Meth Date : 11-Jun-2010 07:57 hoffmanm Quant Type: ISTD  
 Cal Date : 26-MAY-2010 16:31 Cal File: D5360.D  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HSL-9H.sub  
 Target Version: 4.14  
 Processing Host: DENPC106

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1062.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
* 26 1,4-Dichlorobenzene-d4	152	4.119	4.116 (1.000)		339197	40.0000	
* 58 Naphthalene-d8	136	5.321	5.318 (1.000)		1221891	40.0000	
* 96 Acenaphthene-d10	164	6.966	6.968 (1.000)		835023	40.0000	
* 135 Phenanthrene-d10	188	8.179	8.176 (1.000)		1328518	40.0000	
* 166 Chrysene-d12	240	10.353	10.334 (1.000)		1359243	40.0000	
* 179 Perylene-d12	264	11.603	11.568 (1.000)		1288468	40.0000	
\$ 8 2-Fluorophenol	112	2.976	2.978 (0.722)		1179107	97.6592	91.9578
\$ 15 Phenol-d5	99	3.750	3.753 (0.911)		1539318	100.108	94.2635
\$ 43 Nitrobenzene-d5	82	4.632	4.629 (0.870)		948650	64.6705	60.8950
\$ 81 2-Fluorobiphenyl	172	6.346	6.349 (0.911)		1545153	52.9989	49.9048
\$ 118 2,4,6-Tribromophenol	330	7.623	7.626 (1.094)		480335	101.574	95.6441
\$ 154 Terphenyl-d14	244	9.423	9.426 (0.910)		2714505	92.8002	87.3825
\$ 29 1,2-Dichlorobenzene-d4	152	4.258	4.260 (1.034)		475303	50.7866	47.8216
\$ 22 2-Chlorophenol-d4	132	3.910	3.913 (0.949)		1242777	93.0288	87.5977
4 1,4-Dioxane	88				Compound Not Detected.		
6 Pyridine	79				Compound Not Detected.		
5 N-Nitrosodimethylamine	74				Compound Not Detected.		
18 Aniline	93				Compound Not Detected.		
16 Phenol	94				Compound Not Detected.		
20 Bis(2-chloroethyl) ether	93				Compound Not Detected.		
23 2-Chlorophenol	128				Compound Not Detected.		
25 1,3-Dichlorobenzene	146				Compound Not Detected.		

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
27 1,4-Dichlorobenzene	146		Compound Not Detected.						
28 Benzyl alcohol	108		4.226	4.228	(1.026)	7060	0.90015	0.847595(a)	
30 1,2-Dichlorobenzene	146		Compound Not Detected.						
32 2-Methylphenol	108		Compound Not Detected.						
34 2,2'-oxybis(1-chloropropane)	45		Compound Not Detected.						
138 3-Methylphenol	108		Compound Not Detected.						
36 4-Methylphenol	108		Compound Not Detected.						
139 3 & 4-Methylphenol	108		Compound Not Detected.						
37 N-nitrosodi-n-propylamine	70		Compound Not Detected.						
38 Acetophenone	105		Compound Not Detected.						
41 Hexachloroethane	117		Compound Not Detected.						
44 Nitrobenzene	77		Compound Not Detected.						
47 Isophorone	82		Compound Not Detected.						
49 2-Nitrophenol	139		Compound Not Detected.						
50 2,4-Dimethylphenol	107		Compound Not Detected.						
52 Bis(2-chloroethoxy)methane	93		Compound Not Detected.						
53 Benzoic acid	122		Compound Not Detected.						
54 2,4-Dichlorophenol	162		Compound Not Detected.						
57 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
59 Naphthalene	128		Compound Not Detected.						
60 4-Chloroaniline	127		Compound Not Detected.						
62 Hexachlorobutadiene	225		Compound Not Detected.						
67 Caprolactam	55		Compound Not Detected.						
68 4-Chloro-3-methylphenol	107		Compound Not Detected.						
71 2-Methylnaphthalene	142		Compound Not Detected.						
72 1-Methylnaphthalene	142		Compound Not Detected.						
74 Hexachlorocyclopentadiene	237		Compound Not Detected.						
78 2,4,6-Trichlorophenol	196		Compound Not Detected.						
80 2,4,5-Trichlorophenol	196		Compound Not Detected.						
86 2-Chloronaphthalene	162		Compound Not Detected.						
88 2-Nitroaniline	65		Compound Not Detected.						
91 Dimethyl phthalate	163		Compound Not Detected.						
93 2,6-Dinitrotoluene	165		Compound Not Detected.						
94 Acenaphthylene	152		Compound Not Detected.						
95 3-Nitroaniline	138		Compound Not Detected.						
97 Acenaphthene	153		Compound Not Detected.						
98 2,4-Dinitrophenol	184		Compound Not Detected.						
99 4-Nitrophenol	109		Compound Not Detected.						
101 2,4-Dinitrotoluene	165		Compound Not Detected.						
102 Dibenzofuran	168		Compound Not Detected.						
107 Diethyl phthalate	149		Compound Not Detected.						
109 4-Chlorophenyl phenyl ether	204		Compound Not Detected.						
110 Fluorene	166		Compound Not Detected.						
112 4-Nitroaniline	138		Compound Not Detected.						
113 4,6-Dinitro-2-methylphenol	198		Compound Not Detected.						
115 N-nitrosodiphenylamine	169		Compound Not Detected.						
116 Azobenzene	77		Compound Not Detected.						
234 1,2-DPH(as Azobenzene)	77		Compound Not Detected.						
124 4-Bromophenyl phenyl ether	248		Compound Not Detected.						
125 Hexachlorobenzene	284		Compound Not Detected.						
127 Atrazine	200		Compound Not Detected.						
129 Pentachlorophenol	266		Compound Not Detected.						
136 Phenanthrene	178		Compound Not Detected.						
137 Anthracene	178		Compound Not Detected.						

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
140 Carbazole	167					Compound Not Detected.		
143 Di-n-butyl phthalate	149					Compound Not Detected.		
149 Fluoranthene	202					Compound Not Detected.		
151 Benzidine	184					Compound Not Detected.		
152 Pyrene	202					Compound Not Detected.		
159 Butyl benzyl phthalate	149					Compound Not Detected.		
164 3 3'-Dichlorobenzidine	252					Compound Not Detected.		
165 Benzo(a)anthracene	228					Compound Not Detected.		
167 Chrysene	228					Compound Not Detected.		
162 Bis(2-ethylhexyl) phthalate	149					Compound Not Detected.		
168 Di-n-octyl phthalate	149					Compound Not Detected.		
171 Benzo(b)fluoranthene	252					Compound Not Detected.		
172 Benzo(k)fluoranthene	252					Compound Not Detected.		
178 Benzo(a)pyrene	252					Compound Not Detected.		
186 Indeno(1,2,3-cd)pyrene	276					Compound Not Detected.		
185 Dibenz(a,h)anthracene	278					Compound Not Detected.		
188 Benzo(g,h,i)perylene	276					Compound Not Detected.		

#### QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

Data File: D5607.D

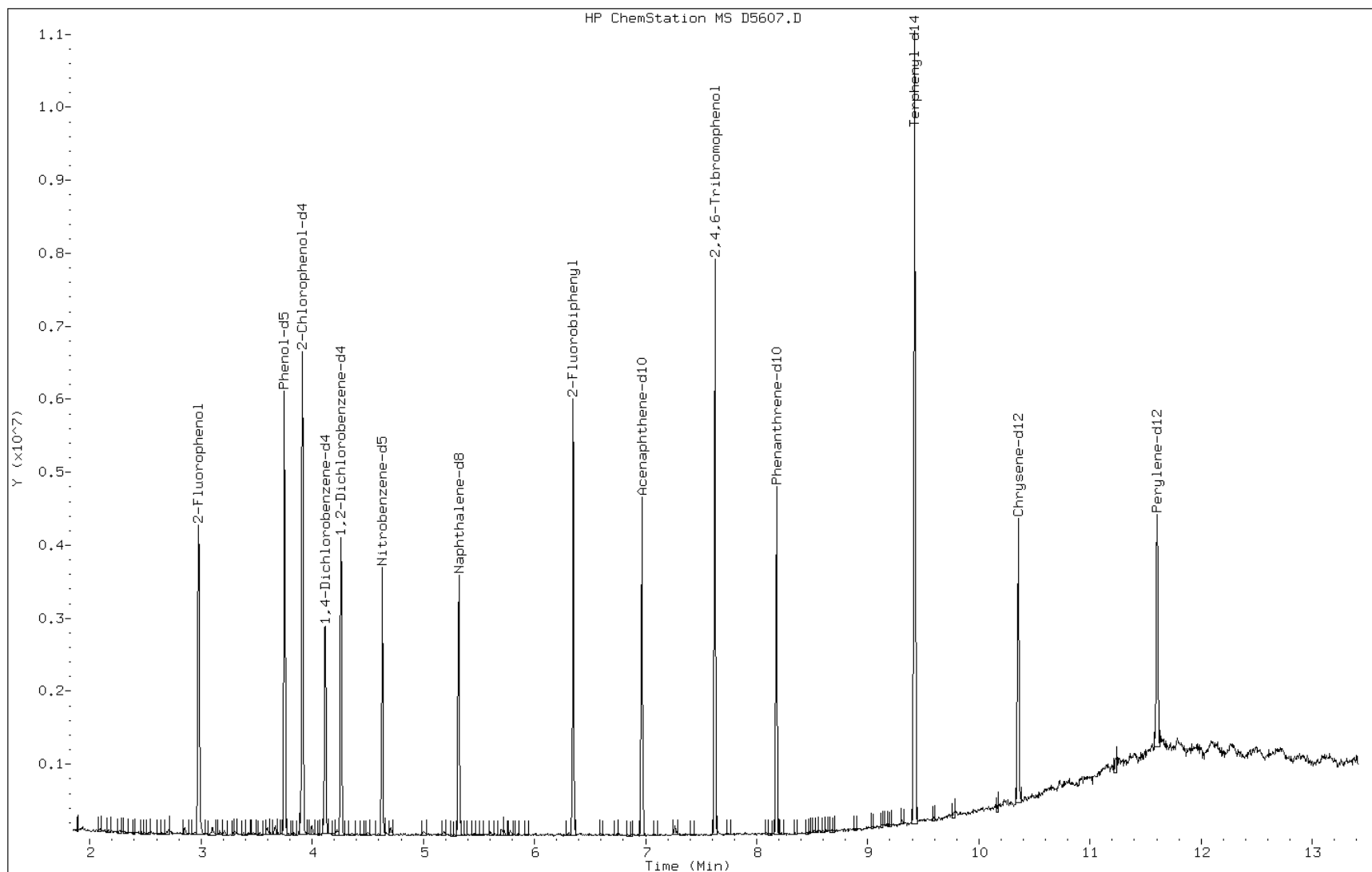
Date: 10-JUN-2010 18:26

Client ID: IRRIGATION WELL 1

Instrument: D.i

Sample Info: 280-4055-B-2-A

Operator: hoffmanm



# Method RSK-175

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Dissolved Gases (GC) by Method  
RSK\_175

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611101.B\007F0701.D  
 Lab Smp Id: 280-4055-I-1 Client Smp ID: LAKE 1  
 Inj Date : 11-JUN-2010 11:31  
 Operator : CK Inst ID: GC\_J.i  
 Smp Info : 280-4055-I-1  
 Misc Info : 280-4055-I-1  
 Comment : SOP: DV-GC-0025  
 Method : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611101.B\RSK-1\_7PT.m  
 Meth Date : 14-Jun-2010 10:14 knabec Quant Type: ESTD  
 Cal Date : 12-MAY-2010 11:26 Cal File: 007F0701.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: RSK175.01.sub  
 Target Version: 4.14  
 Processing Host: DENPC290

Concentration Formula: Amt \* DF \* 1 \* CpndVariable  
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.282	1.285	-0.003	44408	32.7646	32.76
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: 007F0701.D

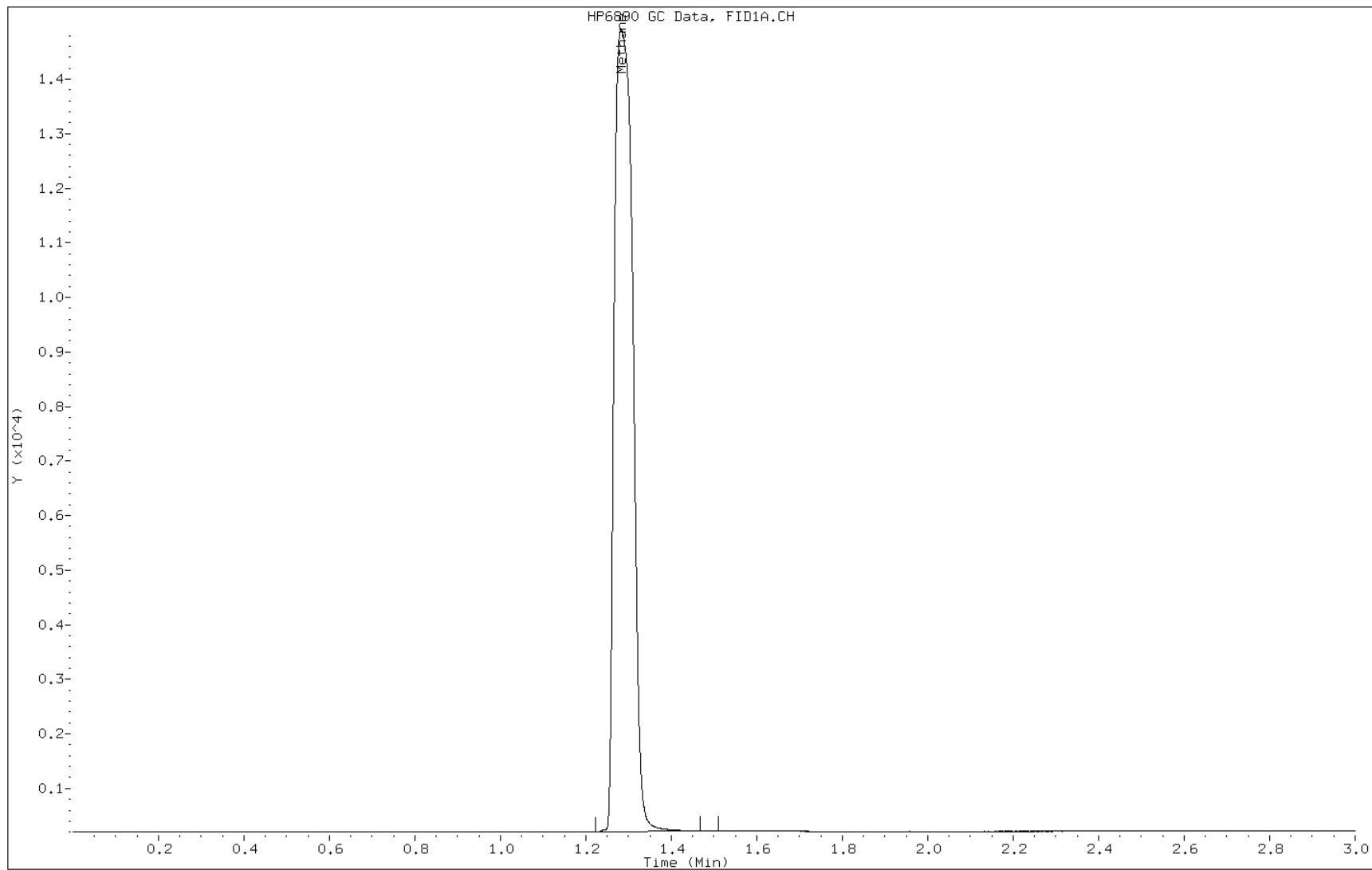
Date: 11-JUN-2010 11:31

Client ID: LAKE 1

Instrument: GC\_J.i

Sample Info: 280-4055-I-1

Operator: CK



TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611102.B\007F0701.D  
Lab Smp Id: 280-4055-I-1 Client Smp ID: LAKE 1  
Inj Date : 11-JUN-2010 11:31  
Operator : CK Inst ID: GC\_J.i  
Smp Info : 280-4055-I-1  
Misc Info : 280-4055-I-1  
Comment : SOP: DV-GC-0025  
Method : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611102.B\RSK-2\_7PT.m  
Meth Date : 14-Jun-2010 10:16 knabec Quant Type: ESTD  
Cal Date : 12-MAY-2010 11:26 Cal File: 007F0701.D  
Als bottle: 7  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: RSK175.01.sub  
Target Version: 4.14  
Processing Host: DENPC290

Concentration Formula: Amt \* DF \* 1 \* CpndVariable  
Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.711	1.715	-0.004	27098	32.7858	32.78
2 Ethene	Compound Not Detected.					
3 AcetyleneEthane	Compound Not Detected.					

Data File: 007F0701.D

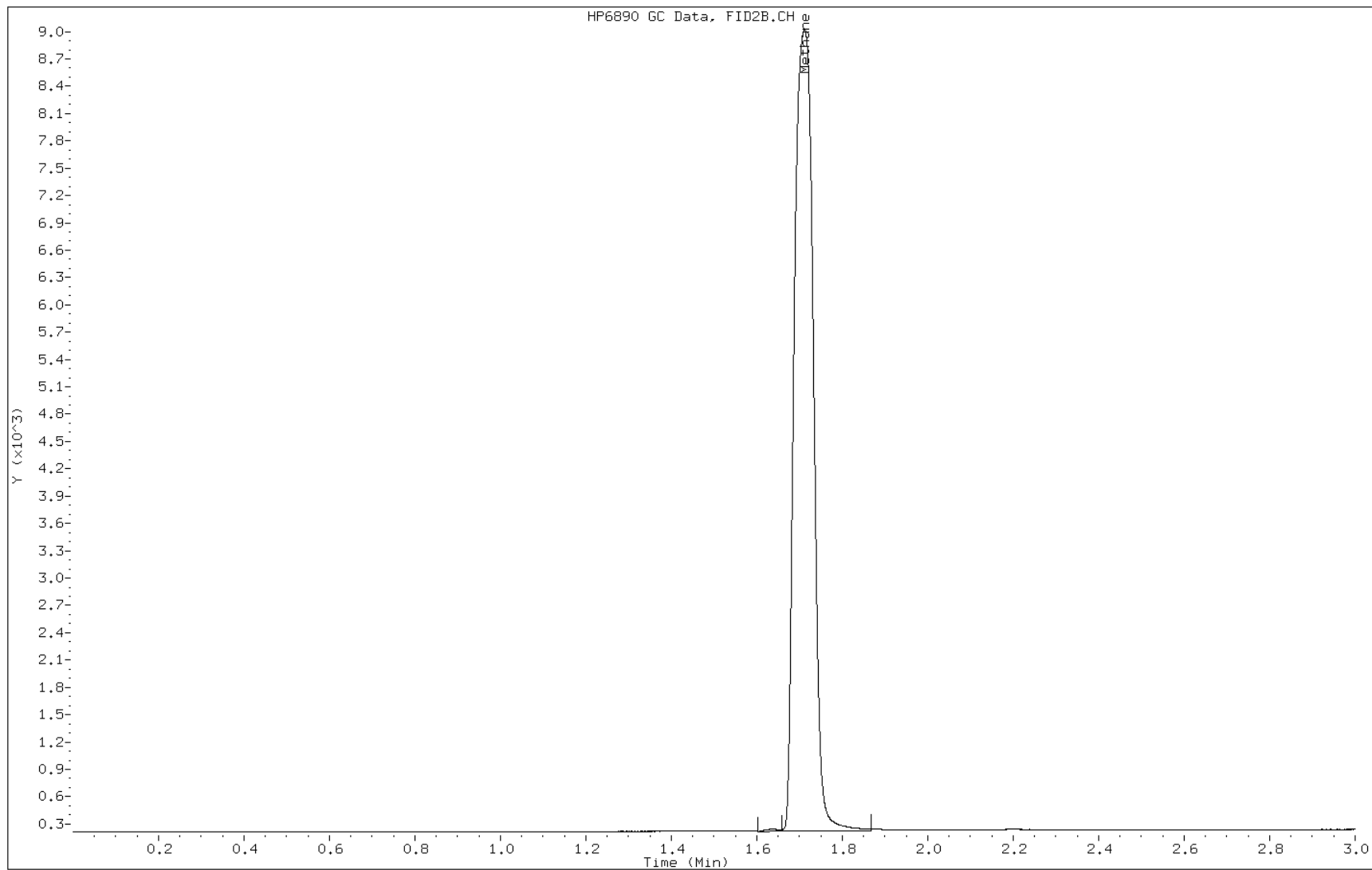
Date: 11-JUN-2010 11:31

Client ID: LAKE 1

Instrument: GC\_J.i

Sample Info: 280-4055-I-1

Operator: CK



TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611101.B\008F0801.D  
Lab Smp Id: 280-4055-I-2 Client Smp ID: IRRIGATION WELL 1  
Inj Date : 11-JUN-2010 11:36  
Operator : CK Inst ID: GC\_J.i  
Smp Info : 280-4055-I-2  
Misc Info : 280-4055-I-2  
Comment : SOP: DV-GC-0025  
Method : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611101.B\RSK-1\_7PT.m  
Meth Date : 14-Jun-2010 10:14 knabec Quant Type: ESTD  
Cal Date : 12-MAY-2010 11:26 Cal File: 007F0701.D  
Als bottle: 8  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: RSK175.01.sub  
Target Version: 4.14  
Processing Host: DENPC290

Concentration Formula: Amt \* DF \* 1 \* CpndVariable  
Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: 008F0801.D

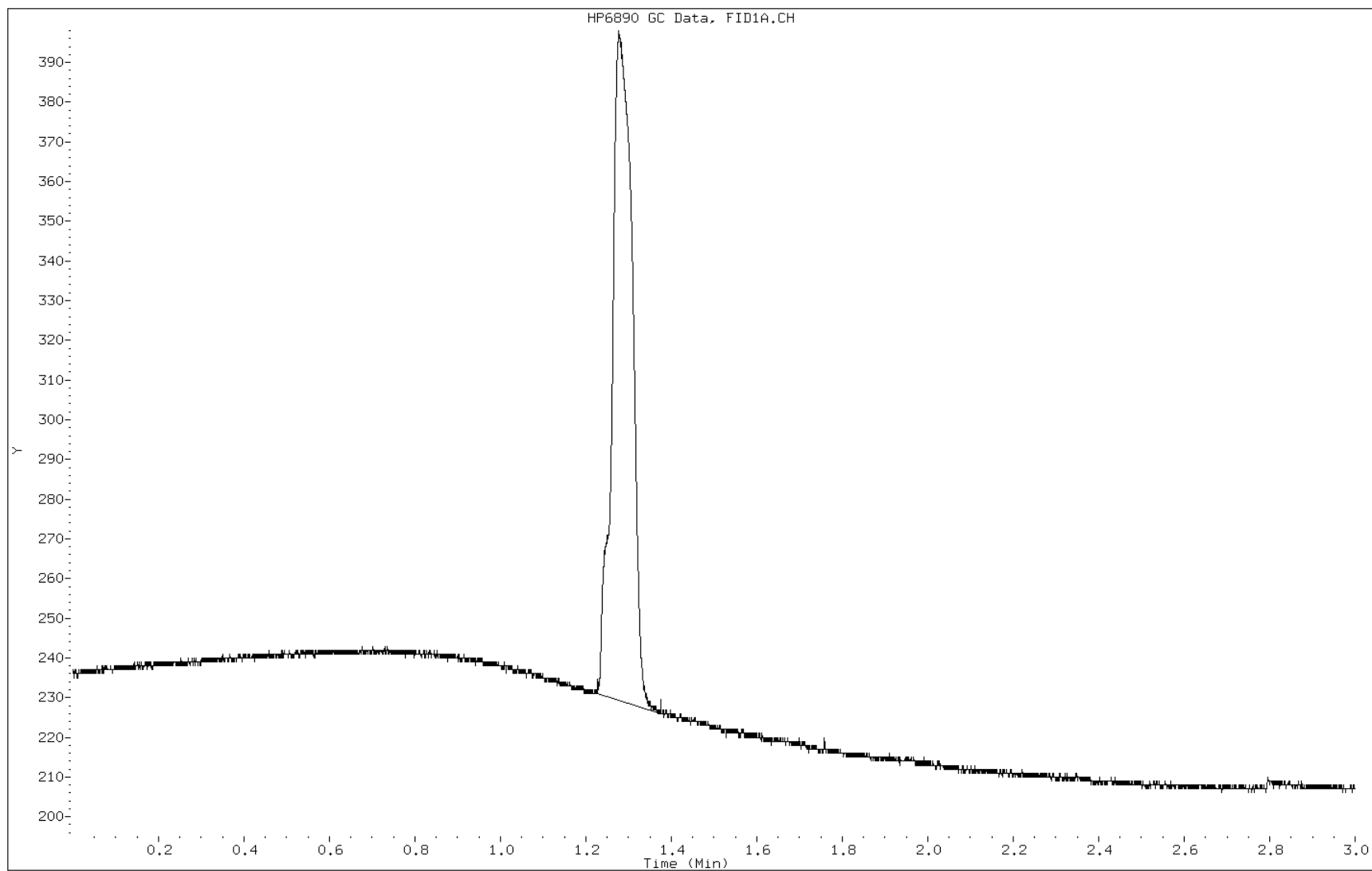
Date: 11-JUN-2010 11:36

Client ID: IRRIGATION WELL 1

Instrument: GC\_J.i

Sample Info: 280-4055-I-2

Operator: CK



TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611102.B\008F0801.D  
Lab Smp Id: 280-4055-I-2 Client Smp ID: IRRIGATION WELL 1  
Inj Date : 11-JUN-2010 11:36  
Operator : CK Inst ID: GC\_J.i  
Smp Info : 280-4055-I-2  
Misc Info : 280-4055-I-2  
Comment : SOP: DV-GC-0025  
Method : \\DenSvr03\Public\chem\GCV\GC\_J.i\0611102.B\RSK-2\_7PT.m  
Meth Date : 14-Jun-2010 10:16 knabec Quant Type: ESTD  
Cal Date : 12-MAY-2010 11:26 Cal File: 007F0701.D  
Als bottle: 8  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: RSK175.01.sub  
Target Version: 4.14  
Processing Host: DENPC290

Concentration Formula: Amt \* DF \* 1 \* CpndVariable  
Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 AcetyleneEthane	Compound Not Detected.					

Data File: 008F0801.D

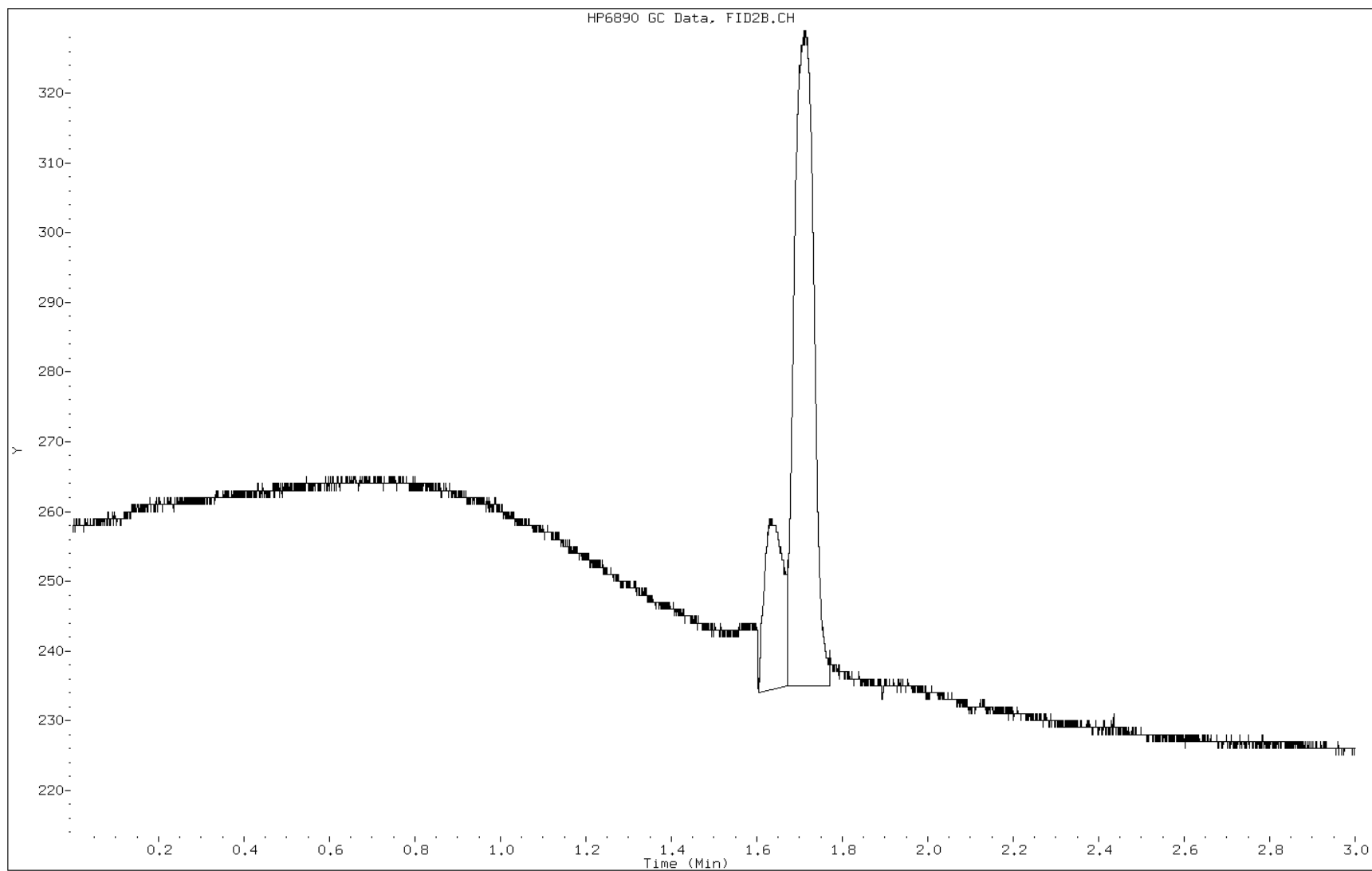
Date: 11-JUN-2010 11:36

Client ID: IRRIGATION WELL 1

Instrument: GC\_J.i

Sample Info: 280-4055-I-2

Operator: CK



# Shipping and Receiving Documents

TAL-4124-280 (0508)

Drinking Water? Yes ☐ No ☐

THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

### Possible Hazard Identification

☐ Non-Hazard    ☐ Flammable    ☐ Skin Irritant    ☐ Poison B    ☐ Unknown

*Sample Disposal*

☐ *Return To Client*☐ Disposal By Lab☐ *Archive For*

– Months

*(A fee may be assessed if samples are retained longer than 1 month)*

### Turn Around Time Required

☐ 24 Hours    ☐ 48 Hours    ☐ 7 Days    ☐ 14 Days    ☐ 21 Days☒ Other Standard

QC Requirements (Specify)

### 1. Relinquished By

## 2. Relinquished By

### 3. Relinquished By

Comments

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

## Login Sample Receipt Check List

Client: Terracon Consulting Eng & Scientists

Job Number: 280-4055-1

SDG Number: 200240886 // Terracon # 25087038

**Login Number: 4055**

**List Source: TestAmerica Denver**

**Creator: Bindel, Aaron M**

**List Number: 1**

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Rec. H2SO4 bottle for sample, logged for NO2+NO3
There are no discrepancies between the sample IDs on the containers and the COC.	False	TBs not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	