

Appendix D
Laboratory Analytical Reports and
Chain-of-Custody Documents –
January/March 2010 Sentry Event

Laboratory Data Validation Report

Twenty-one groundwater samples (including nineteen primary and two field duplicate samples) and three trip blank samples were collected between January 11 and 13, 2010 for the Norwalk DFSP Groundwater Monitoring Project (First Quarter 2010). Samples were submitted to Calscience Environmental Laboratories, Inc. in Garden Grove California for the following analyses:

- (1) Volatile Organics (EPA8260B)
- (2) TPH as Gasoline (modified EPA 8015B)
- (3) TPH as JP5 (modified EPA 8015B).

Results for these samples are summarized in Calscience report numbers **10-01-0712**, **10-01-0859**, and **10-01-0860**. The validation process included review of the following data as provided by the laboratory:

- Holding Times,
- Method and Trip Blanks,
- System Monitoring Compounds: Surrogate compounds for organic tests by GC and GC/MS,
- Matrix Spike/Matrix Spike Duplicate,
- Reporting Limits,
- Duplicate Samples,
- Laboratory Control Samples,
- Data Anomalies, and
- Case Narrative: if necessary.

1.0 HOLDING TIMES

Holding times were met for all project samples. Sample cooler temperatures were measured between 1.7 and 3.0 °C upon receipt at the laboratory meeting the required 4 ± 2 °C criteria with the following exception. Samples in sample delivery groups (SDGs) 10-01-0859 and 10-01-0860 were measured at 1.7 °C and 1.9 °C, respectively, which is below the acceptance limit; however, data in these SDGs will not be qualified based on this observation alone.

2.0 METHOD AND TRIP BLANKS

Target compounds were not detected in the trip blank or any method blanks associated with project samples.

3.0 SYSTEM MONITORING COMPOUNDS

Surrogate recoveries were within in-house generated acceptance limits for all designated analyses and associated QC samples.

4.0 MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD)

MS/MSD analyses were performed with each VOC and TPH as gasoline analytical batches and demonstrated acceptable method precision and accuracy.

LCS/LCSD pairs were analyzed in lieu of MS/MSD pairs for TPH as JP5 and SVOC analyses (results summarized in Section 7.0).

5.0 REPORTING LIMITS

Reporting limits (RLs) were generally acceptable based on suggested reporting limits from EPA protocols and SW-846 guidelines.

6.0 DUPLICATES SAMPLES

Two field duplicate samples were collected during this monitoring event from GMW-47 (GMW-47 Dup) and GMW-58 (GMW-58 Dup).

7.0 LABORATORY CONTROL SAMPLES

LCS/LCSD pairs were analyzed with TPH as JP-5, as well as, VOC and TPH as gasoline analyses and demonstrated acceptable method precision and accuracy.

8.0 DATA ANOMALIES

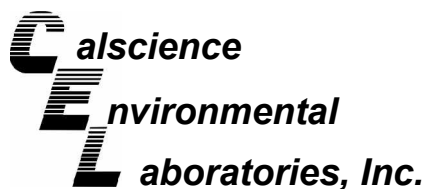
The follow project samples were diluted for VOC (method 8260B) analysis resulting in reporting of several target compounds as non-detect at elevated reporting limits (lowest dilution in noted in parenthesis next to the sample name): GMW-59 (20x), GMW-60 (10x), GMW-61 (2x), and GMW-62 (20x). VOC analyses of samples GMW-60, GMW-61, and GMW-62 were run with no dilution for the analysis of MTBE only. MTBE was below the method detection limit of 0.3 µg/L for these samples.

The sample chromatographic pattern of TPH as gasoline for project samples GW-14 does not match the chromatographic pattern of the gasoline standard. Quantification of the unknown hydrocarbons in GW-14 was based on the gasoline standard. These results are qualified as estimates (“J” flag).

The sample chromatographic pattern of TPH as JP-5 for project samples GW-14 and GW-16 does not match the chromatographic pattern of the JP-5 standard. Quantification of the unknown hydrocarbons in GW-14 and GW-16 was based on the JP-5 standard. These results are qualified as estimates (“J” flag).

9.0 CASE NARRATIVES: COMMENTS ON SPECIAL ISSUES

There were no comments on any special issues in these laboratory reports.



January 22, 2010

Mary Lucas
Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Subject: **CalScience Work Order No.: 10-01-0712**
Client Reference: DFSP NORWALK GWM / 746442

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/12/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Ranjit K. F. Clarke'.

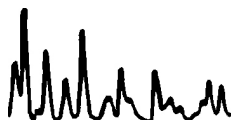
CalScience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Work Order Case Narrative

Project Name: DFSP NORWALK GWM / 746442
CalScience Work Order Number: 10-01-0712

1. Volatile Organic Compounds – EPA 8260B:

Samples “GMW-60” and “GMW-61” were re-analyzed at 1x dilution in order to report MTBE down to 0.5 ppb per permit requirements. The MTBE results for these samples are not listed with the rest of the VOCs compounds, but on a separate page. The reporting limits are set at 1.0 ug/L (ppb) for this testcode, but the results are reported down to the method detection limit (MDL) which is 0.30 ug/L.



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	10-01-0712-2-G	01/11/10 08:04	Aqueous	GC 27	01/14/10	01/15/10 16:55	100114B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	99	68-140			

EXP-2	10-01-0712-3-G	01/11/10 08:53	Aqueous	GC 27	01/14/10	01/15/10 17:13	100114B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	102	68-140			

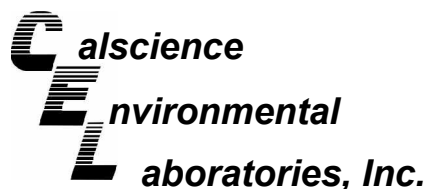
EXP-3	10-01-0712-4-G	01/11/10 09:40	Aqueous	GC 27	01/14/10	01/15/10 17:31	100114B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	102	68-140			

GMW-47	10-01-0712-5-D	01/11/10 10:30	Aqueous	GC 27	01/14/10	01/15/10 17:49	100114B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	1300	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47 DUP	10-01-0712-6-D	01/11/10 00:00	Aqueous	GC 27	01/14/10	01/15/10 18:07	100114B09

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1200	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	95	68-140			

GMW-57	10-01-0712-7-D	01/11/10 11:20	Aqueous	GC 27	01/14/10	01/15/10 18:25	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	108	68-140			

GMW-58	10-01-0712-8-D	01/11/10 12:42	Aqueous	GC 27	01/14/10	01/15/10 18:43	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	190	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	95	68-140			

GMW-58 DUP	10-01-0712-9-D	01/11/10 00:00	Aqueous	GC 27	01/14/10	01/15/10 19:02	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	170	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	100	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59	10-01-0712-10-D	01/11/10 13:31	Aqueous	GC 27	01/14/10	01/15/10 19:20	100114B09

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1900	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	90	68-140			

GMW-60	10-01-0712-11-D	01/11/10 14:13	Aqueous	GC 27	01/14/10	01/15/10 19:57	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	97	68-140			

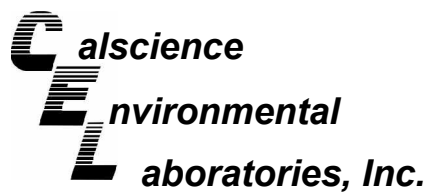
GMW-61	10-01-0712-12-D	01/11/10 15:04	Aqueous	GC 27	01/14/10	01/15/10 20:14	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	68-140			

Method Blank	099-12-366-55	N/A	Aqueous	GC 27	01/14/10	01/15/10 16:01	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	112	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB	10-01-0712-1-B	01/11/10 08:00	Aqueous	GC 5	01/14/10	01/14/10 10:50	100114B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	90	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	10-01-0712-2-E	01/11/10 08:04	Aqueous	GC 42	01/14/10	01/14/10 10:24	100114B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	96	38-134			

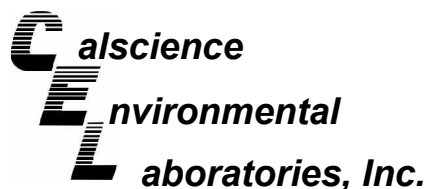
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-2	10-01-0712-3-E	01/11/10 08:53	Aqueous	GC 42	01/13/10	01/14/10 04:20	100113B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	95	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	10-01-0712-4-E	01/11/10 09:40	Aqueous	GC 42	01/13/10	01/14/10 04:56	100113B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	94	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-3,857	N/A	Aqueous	GC 42	01/13/10	01/13/10 13:09	100113B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	96	38-134			

Method Blank	099-12-247-3,860	N/A	Aqueous	GC 5	01/14/10	01/14/10 06:31	100114B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	92	38-134			

Method Blank	099-12-247-3,865	N/A	Aqueous	GC 42	01/14/10	01/14/10 07:22	100114B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	94	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB	10-01-0712-1-A	01/11/10 08:00	Aqueous	GC/MS X	01/13/10	01/14/10 03:06	100113L03


Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	80-132	
Toluene-d8	100	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	103	80-141	
1,4-Bromofluorobenzene	96	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	10-01-0712-2-A	01/11/10 08:04	Aqueous	GC/MS X	01/13/10	01/14/10 01:01	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	80-132	
Toluene-d8	100	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	98	80-141	
1,4-Bromofluorobenzene	96	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-2	10-01-0712-3-A	01/11/10 08:53	Aqueous	GC/MS X	01/13/10	01/14/10 03:37	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	80-132	
Toluene-d8	101	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	106	80-141	
1,4-Bromofluorobenzene	97	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	10-01-0712-4-A	01/11/10 09:40	Aqueous	GC/MS X	01/13/10	01/14/10 04:09	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	80-132	
Toluene-d8	102	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	101	80-141	
1,4-Bromofluorobenzene	94	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	10-01-0712-5-A	01/11/10 10:30	Aqueous	GC/MS X	01/13/10	01/14/10 04:40	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	6.9	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.93	1.0	0.20	1	J	n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	0.62	1.0	0.28	1	J	Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	17	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	112	80-132		1,2-Dichloroethane-d4	100	80-141	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	98	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47 DUP	10-01-0712-6-A	01/11/10 00:00	Aqueous	GC/MS X	01/13/10	01/14/10 05:12	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	6.5	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.90	1.0	0.20	1	J	n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	0.57	1.0	0.28	1	J	Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	15	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	110	80-132		1,2-Dichloroethane-d4	101	80-141	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	97	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-57	10-01-0712-7-A	01/11/10 11:20	Aqueous	GC/MS X	01/13/10	01/14/10 05:42	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	0.58	1.0	0.23	1	J
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	111	80-132		1,2-Dichloroethane-d4	103	80-141	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	95	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 8 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	10-01-0712-8-A	01/11/10 12:42	Aqueous	GC/MS X	01/13/10	01/14/10 06:14	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	9.7	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	2.2	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.24	1.0	0.20	1	J	n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	1.1	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	1.7	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	3.8	10	3.5	1	J
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	110	80-132		1,2-Dichloroethane-d4	103	80-141	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	96	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 9 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58 DUP	10-01-0712-9-A	01/11/10 00:00	Aqueous	GC/MS X	01/13/10	01/14/10 06:45	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	9.5	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	2.1	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.25	1.0	0.20	1	J	n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	1.2	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	1.6	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	113	80-132		1,2-Dichloroethane-d4	103	80-141	
Toluene-d8	105	80-120		1,4-Bromofluorobenzene	97	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59	10-01-0712-10-A	01/11/10 13:31	Aqueous	GC/MS X	01/13/10	01/14/10 07:17	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	1000	400	20		c-1,3-Dichloropropene	ND	10	5.7	20	
Benzene	2200	10	5.7	20		t-1,3-Dichloropropene	ND	10	7.2	20	
Bromobenzene	ND	20	6.7	20		Ethylbenzene	ND	10	4.4	20	
Bromochloromethane	ND	20	14	20		2-Hexanone	ND	200	140	20	
Bromodichloromethane	ND	20	6.6	20		Isopropylbenzene	22	20	4.5	20	
Bromoform	ND	20	11	20		p-Isopropyltoluene	ND	20	5.2	20	
Bromomethane	ND	100	86	20		Methylene Chloride	ND	100	52	20	
2-Butanone	ND	200	140	20		4-Methyl-2-Pentanone	ND	200	88	20	
n-Butylbenzene	ND	20	5.5	20		Naphthalene	ND	200	51	20	
sec-Butylbenzene	ND	20	4.1	20		n-Propylbenzene	ND	20	16	20	
tert-Butylbenzene	ND	20	5.5	20		Styrene	ND	20	6.0	20	
Carbon Disulfide	ND	200	38	20		1,1,1,2-Tetrachloroethane	ND	20	7.0	20	
Carbon Tetrachloride	ND	10	8.5	20		1,1,2,2-Tetrachloroethane	ND	20	8.8	20	
Chlorobenzene	ND	20	4.4	20		Tetrachloroethene	ND	20	10	20	
Chloroethane	ND	100	26	20		Toluene	ND	10	6.5	20	
Chloroform	ND	20	6.6	20		1,2,3-Trichlorobenzene	ND	20	6.1	20	
Chloromethane	ND	100	9.7	20		1,2,4-Trichlorobenzene	ND	20	9.7	20	
2-Chlorotoluene	ND	20	11	20		1,1,1-Trichloroethane	ND	20	9.0	20	
4-Chlorotoluene	ND	20	4.2	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	200	13	20	
Dibromochloromethane	ND	20	9.7	20		1,1,2-Trichloroethane	ND	20	11	20	
1,2-Dibromo-3-Chloropropane	ND	100	62	20		Trichloroethene	ND	20	6.1	20	
1,2-Dibromoethane	ND	20	9.3	20		Trichlorofluoromethane	ND	200	6.2	20	
Dibromomethane	ND	20	12	20		1,2,3-Trichloropropane	ND	100	27	20	
1,2-Dichlorobenzene	ND	20	5.4	20		1,2,4-Trimethylbenzene	ND	20	4.9	20	
1,3-Dichlorobenzene	ND	20	5.7	20		1,3,5-Trimethylbenzene	ND	20	4.6	20	
1,4-Dichlorobenzene	ND	20	4.2	20		Vinyl Acetate	ND	200	140	20	
Dichlorodifluoromethane	ND	20	9.8	20		Vinyl Chloride	ND	10	6.5	20	
1,1-Dichloroethane	ND	20	7.5	20		p/m-Xylene	ND	10	9.1	20	
1,2-Dichloroethane	ND	10	6.3	20		o-Xylene	ND	10	4.7	20	
1,1-Dichloroethene	ND	20	8.0	20		Methyl-t-Butyl Ether (MTBE)	17	10	6.1	20	
c-1,2-Dichloroethene	ND	20	9.7	20		Tert-Butyl Alcohol (TBA)	ND	200	71	20	
t-1,2-Dichloroethene	ND	20	8.1	20		Diisopropyl Ether (DIPE)	ND	40	6.2	20	
1,2-Dichloropropane	ND	20	7.6	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	5.3	20	
1,3-Dichloropropane	ND	20	7.6	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	5.7	20	
2,2-Dichloropropane	ND	20	9.2	20		Ethanol	ND	2000	1000	20	
1,1-Dichloropropene	ND	20	5.1	20							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	110	80-132		1,2-Dichloroethane-d4	100	80-141	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	95	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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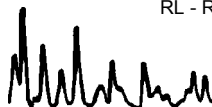
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	10-01-0712-11-A	01/11/10 14:13	Aqueous	GC/MS X	01/13/10	01/14/10 07:48	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	500	200	10		1,1-Dichloropropene	ND	10	2.6	10	
Benzene	940	5.0	2.8	10		c-1,3-Dichloropropene	ND	5.0	2.8	10	
Bromobenzene	ND	10	3.3	10		t-1,3-Dichloropropene	ND	5.0	3.6	10	
Bromochloromethane	ND	10	6.9	10		Ethylbenzene	12	5.0	2.2	10	
Bromodichloromethane	ND	10	3.3	10		2-Hexanone	ND	100	69	10	
Bromoform	ND	10	5.5	10		Isopropylbenzene	80	10	2.3	10	
Bromomethane	ND	50	43	10		p-Isopropyltoluene	ND	10	2.6	10	
2-Butanone	ND	100	69	10		Methylene Chloride	ND	50	26	10	
n-Butylbenzene	4.0	10	2.8	10	J	4-Methyl-2-Pentanone	ND	100	44	10	
sec-Butylbenzene	10	10	2.0	10	J	Naphthalene	110	100	25	10	
tert-Butylbenzene	ND	10	2.8	10		n-Propylbenzene	84	10	7.9	10	
Carbon Disulfide	ND	100	19	10		Styrene	ND	10	3.0	10	
Carbon Tetrachloride	ND	5.0	4.3	10		1,1,1,2-Tetrachloroethane	ND	10	3.5	10	
Chlorobenzene	ND	10	2.2	10		1,1,2,2-Tetrachloroethane	ND	10	4.4	10	
Chloroethane	ND	50	13	10		Tetrachloroethene	ND	10	5.1	10	
Chloroform	ND	10	3.3	10		Toluene	ND	5.0	3.3	10	
Chloromethane	ND	50	4.9	10		1,2,3-Trichlorobenzene	ND	10	3.1	10	
2-Chlorotoluene	ND	10	5.5	10		1,2,4-Trichlorobenzene	ND	10	4.9	10	
4-Chlorotoluene	ND	10	2.1	10		1,1,1-Trichloroethane	ND	10	4.5	10	
Dibromochloromethane	ND	10	4.8	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	6.4	10	
1,2-Dibromo-3-Chloropropane	ND	50	31	10		1,1,2-Trichloroethane	ND	10	5.4	10	
1,2-Dibromoethane	ND	10	4.7	10		Trichloroethene	ND	10	3.0	10	
Dibromomethane	ND	10	5.9	10		Trichlorofluoromethane	ND	100	3.1	10	
1,2-Dichlorobenzene	ND	10	2.7	10		1,2,3-Trichloropropane	ND	50	13	10	
1,3-Dichlorobenzene	ND	10	2.8	10		1,2,4-Trimethylbenzene	ND	10	2.4	10	
1,4-Dichlorobenzene	ND	10	2.1	10		1,3,5-Trimethylbenzene	ND	10	2.3	10	
Dichlorodifluoromethane	ND	10	4.9	10		Vinyl Acetate	ND	100	71	10	
1,1-Dichloroethane	ND	10	3.7	10		Vinyl Chloride	ND	5.0	3.3	10	
1,2-Dichloroethane	ND	5.0	3.1	10		p/m-Xylene	ND	5.0	4.5	10	
1,1-Dichloroethene	ND	10	4.0	10		o-Xylene	ND	5.0	2.4	10	
c-1,2-Dichloroethene	ND	10	4.9	10		Tert-Butyl Alcohol (TBA)	ND	100	35	10	
t-1,2-Dichloroethene	ND	10	4.0	10		Diisopropyl Ether (DIPE)	ND	20	3.1	10	
1,2-Dichloropropane	ND	10	3.8	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	2.7	10	
1,3-Dichloropropane	ND	10	3.8	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	2.8	10	
2,2-Dichloropropane	ND	10	4.6	10		Ethanol	ND	1000	500	10	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	104	80-132		1,2-Dichloroethane-d4	96	80-141	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	97	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	10-01-0712-12-A	01/11/10 15:04	Aqueous	GC/MS X	01/13/10	01/14/10 08:20	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	100	40	2		1,1-Dichloropropene	ND	2.0	0.51	2	
Benzene	190	1.0	0.57	2		c-1,3-Dichloropropene	ND	1.0	0.57	2	
Bromobenzene	ND	2.0	0.67	2		t-1,3-Dichloropropene	ND	1.0	0.72	2	
Bromochloromethane	ND	2.0	1.4	2		Ethylbenzene	0.99	1.0	0.44	2	J
Bromodichloromethane	ND	2.0	0.66	2		2-Hexanone	ND	20	14	2	
Bromoform	ND	2.0	1.1	2		Isopropylbenzene	41	2.0	0.45	2	
Bromomethane	ND	10	8.6	2		p-Isopropyltoluene	ND	2.0	0.52	2	
2-Butanone	ND	20	14	2		Methylene Chloride	ND	10	5.2	2	
n-Butylbenzene	1.8	2.0	0.55	2	J	4-Methyl-2-Pentanone	ND	20	8.8	2	
sec-Butylbenzene	6.9	2.0	0.41	2		Naphthalene	ND	20	5.1	2	
tert-Butylbenzene	1.0	2.0	0.55	2	J	n-Propylbenzene	27	2.0	1.6	2	
Carbon Disulfide	ND	20	3.8	2		Styrene	ND	2.0	0.60	2	
Carbon Tetrachloride	ND	1.0	0.85	2		1,1,1,2-Tetrachloroethane	ND	2.0	0.70	2	
Chlorobenzene	ND	2.0	0.44	2		1,1,2,2-Tetrachloroethane	ND	2.0	0.88	2	
Chloroethane	ND	10	2.6	2		Tetrachloroethene	ND	2.0	1.0	2	
Chloroform	ND	2.0	0.66	2		Toluene	ND	1.0	0.65	2	
Chloromethane	ND	10	0.97	2		1,2,3-Trichlorobenzene	ND	2.0	0.61	2	
2-Chlorotoluene	ND	2.0	1.1	2		1,2,4-Trichlorobenzene	ND	2.0	0.97	2	
4-Chlorotoluene	ND	2.0	0.42	2		1,1,1-Trichloroethane	ND	2.0	0.90	2	
Dibromochloromethane	ND	2.0	0.97	2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	1.3	2	
1,2-Dibromo-3-Chloropropane	ND	10	6.2	2		1,1,2-Trichloroethane	ND	2.0	1.1	2	
1,2-Dibromoethane	ND	2.0	0.93	2		Trichloroethene	ND	2.0	0.61	2	
Dibromomethane	ND	2.0	1.2	2		Trichlorofluoromethane	ND	20	0.62	2	
1,2-Dichlorobenzene	ND	2.0	0.54	2		1,2,3-Trichloropropane	ND	10	2.7	2	
1,3-Dichlorobenzene	ND	2.0	0.57	2		1,2,4-Trimethylbenzene	ND	2.0	0.49	2	
1,4-Dichlorobenzene	ND	2.0	0.42	2		1,3,5-Trimethylbenzene	ND	2.0	0.46	2	
Dichlorodifluoromethane	ND	2.0	0.98	2		Vinyl Acetate	ND	20	14	2	
1,1-Dichloroethane	ND	2.0	0.75	2		Vinyl Chloride	ND	1.0	0.65	2	
1,2-Dichloroethane	ND	1.0	0.63	2		p/m-Xylene	ND	1.0	0.91	2	
1,1-Dichloroethene	ND	2.0	0.80	2		o-Xylene	ND	1.0	0.47	2	
c-1,2-Dichloroethene	ND	2.0	0.97	2		Tert-Butyl Alcohol (TBA)	ND	20	7.1	2	
t-1,2-Dichloroethene	ND	2.0	0.81	2		Diisopropyl Ether (DIPE)	ND	4.0	0.62	2	
1,2-Dichloropropane	ND	2.0	0.76	2		Ethyl-t-Butyl Ether (ETBE)	ND	4.0	0.53	2	
1,3-Dichloropropane	ND	2.0	0.76	2		Tert-Amyl-Methyl Ether (TAME)	ND	4.0	0.57	2	
2,2-Dichloropropane	ND	2.0	0.92	2		Ethanol	ND	200	100	2	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	110	80-132		1,2-Dichloroethane-d4	94	80-141	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	99	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,897	N/A	Aqueous	GC/MS X	01/13/10	01/14/10 00:28	100113L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	1.0	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							


Surrogates: REC (%) Control Limits Qual

Dibromofluoromethane 111 80-132
Toluene-d8 98 80-120

Surrogates: REC (%) Control I Qual

1,2-Dichloroethane-d4 103 80-141
1,4-Bromofluorobenzene 96 76-120

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	10-01-0712-11-B	01/11/10 14:13	Aqueous	GC/MS U	01/20/10	01/21/10 08:44	100120L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromofluoromethane	99	80-132				
1,2-Dichloroethane-d4	102	80-141				
Toluene-d8	112	80-120				
1,4-Bromofluorobenzene	102	76-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	10-01-0712-12-B	01/11/10 15:04	Aqueous	GC/MS U	01/20/10	01/21/10 09:16	100120L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

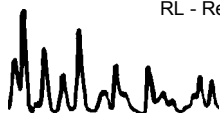
Parameter	Result	RL	MDL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromofluoromethane	116	80-132				
1,2-Dichloroethane-d4	117	80-141				
Toluene-d8	101	80-120				
1,4-Bromofluorobenzene	103	76-120				

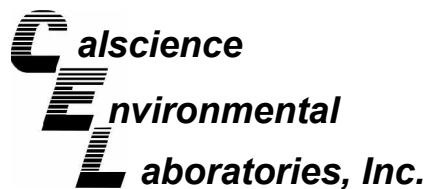
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,983	N/A	Aqueous	GC/MS U	01/20/10	01/21/10 02:35	100120L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromofluoromethane	121	80-132				
1,2-Dichloroethane-d4	130	80-141				
Toluene-d8	101	80-120				
1,4-Bromofluorobenzene	84	76-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

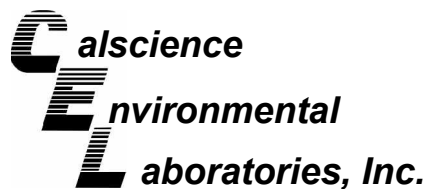
Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0720-1	Aqueous	GC 42	01/13/10	01/13/10	100113S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	91	91	68-122	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

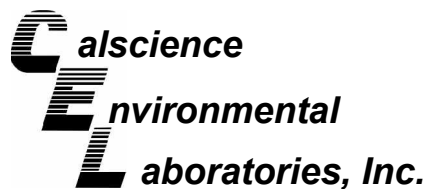
Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0674-1	Aqueous	GC 5	01/14/10	01/14/10	100114S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	72	73	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

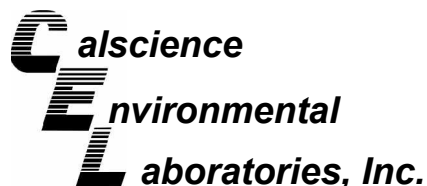
Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EXP-1	Aqueous	GC 42	01/14/10	01/14/10	100114S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	90	90	68-122	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

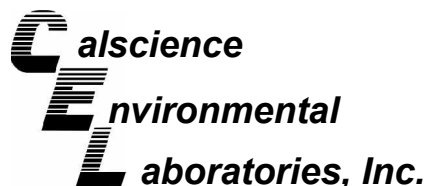
Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-1319-1	Aqueous	GC/MS U	01/20/10	01/21/10	100120S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	117	124	72-120	4	0-20	3
Carbon Tetrachloride	122	125	63-135	3	0-20	
Chlorobenzene	102	107	80-120	4	0-20	
1,2-Dibromoethane	108	114	80-120	5	0-20	
1,2-Dichlorobenzene	94	95	80-120	1	0-20	
1,1-Dichloroethene	123	126	60-132	2	0-24	
Ethylbenzene	126	130	78-120	3	0-20	3
Toluene	109	117	74-122	6	0-20	
Trichloroethene	112	117	69-120	5	0-20	
Vinyl Chloride	96	105	58-130	9	0-20	
Methyl-t-Butyl Ether (MTBE)	107	126	72-126	12	0-21	
Tert-Butyl Alcohol (TBA)	88	105	72-126	18	0-20	
Diisopropyl Ether (DIPE)	114	125	71-137	10	0-23	
Ethyl-t-Butyl Ether (ETBE)	106	121	74-128	13	0-20	
Tert-Amyl-Methyl Ether (TAME)	110	121	76-124	9	0-20	
Ethanol	67	89	35-167	27	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

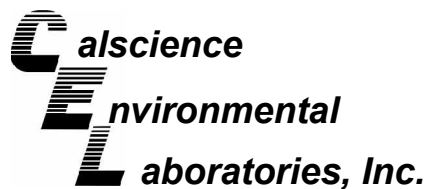
Date Received: 01/12/10
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EXP-1	Aqueous	GC/MS X	01/13/10	01/14/10	100113S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	106	72-120	0	0-20	
Carbon Tetrachloride	113	117	63-135	4	0-20	
Chlorobenzene	95	98	80-120	2	0-20	
1,2-Dibromoethane	97	101	80-120	4	0-20	
1,2-Dichlorobenzene	91	91	80-120	1	0-20	
1,1-Dichloroethene	96	97	60-132	1	0-24	
Ethylbenzene	104	105	78-120	1	0-20	
Toluene	106	106	74-122	0	0-20	
Trichloroethene	98	98	69-120	1	0-20	
Vinyl Chloride	85	89	58-130	5	0-20	
Methyl-t-Butyl Ether (MTBE)	97	98	72-126	1	0-21	
Tert-Butyl Alcohol (TBA)	99	97	72-126	2	0-20	
Diisopropyl Ether (DIPE)	114	114	71-137	0	0-23	
Ethyl-t-Butyl Ether (ETBE)	110	112	74-128	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	104	105	76-124	1	0-20	
Ethanol	104	100	35-167	3	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

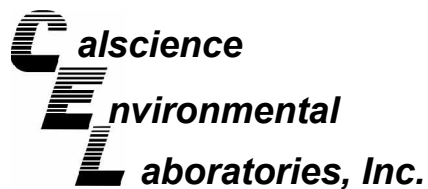
Date Received: N/A
Work Order No: 10-01-0712
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-55	Aqueous	GC 27	01/14/10	01/15/10	100114B09

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	111	111	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

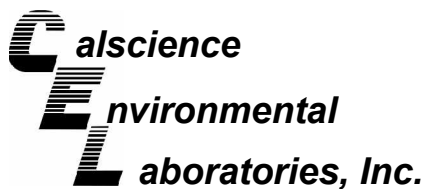
Date Received: N/A
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,857	Aqueous	GC 42	01/13/10	01/13/10	100113B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	99	97	78-120	3	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

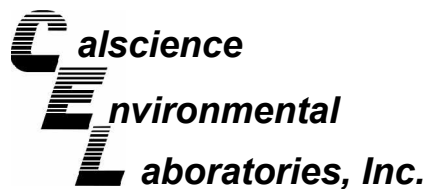
Date Received: N/A
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,860	Aqueous	GC 5	01/14/10	01/14/10	100114B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	92	92	78-120	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

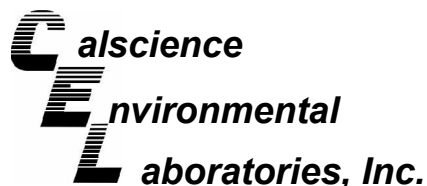
Date Received: N/A
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,865	Aqueous	GC 42	01/14/10	01/14/10	100114B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	95	95	78-120	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,983	Aqueous	GC/MS U	01/20/10	01/21/10	100120L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	109	80-122	73-129	9	0-20	
Carbon Tetrachloride	111	118	68-140	56-152	6	0-20	
Chlorobenzene	98	106	80-120	73-127	8	0-20	
1,2-Dibromoethane	105	110	80-121	73-128	4	0-20	
1,2-Dichlorobenzene	97	103	80-120	73-127	6	0-20	
1,1-Dichloroethene	109	124	72-132	62-142	13	0-25	
Ethylbenzene	109	117	80-126	72-134	7	0-20	
Toluene	100	106	80-121	73-128	5	0-20	
Trichloroethene	99	109	80-123	73-130	9	0-20	
Vinyl Chloride	87	92	67-133	56-144	6	0-20	
Methyl-t-Butyl Ether (MTBE)	104	112	75-123	67-131	7	0-20	
Tert-Butyl Alcohol (TBA)	99	90	75-123	67-131	10	0-20	
Diisopropyl Ether (DIPE)	108	116	71-131	61-141	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	105	115	76-124	68-132	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	109	116	80-123	73-130	5	0-20	
Ethanol	92	93	61-139	48-152	1	0-27	

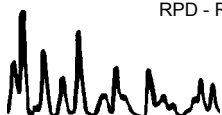
Total number of LCS compounds : 16

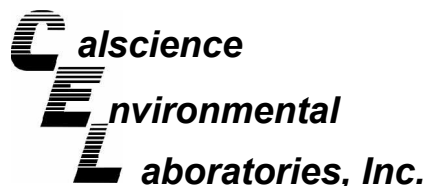
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0712
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,897	Aqueous	GC/MS X	01/13/10	01/13/10	100113L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	107	80-122	73-129	1	0-20	
Carbon Tetrachloride	112	120	68-140	56-152	7	0-20	
Chlorobenzene	99	97	80-120	73-127	1	0-20	
1,2-Dibromoethane	100	102	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	95	94	80-120	73-127	2	0-20	
1,1-Dichloroethene	98	103	72-132	62-142	5	0-25	
Ethylbenzene	107	106	80-126	72-134	1	0-20	
Toluene	106	105	80-121	73-128	1	0-20	
Trichloroethene	107	108	80-123	73-130	1	0-20	
Vinyl Chloride	88	101	67-133	56-144	13	0-20	
Methyl-t-Butyl Ether (MTBE)	97	103	75-123	67-131	6	0-20	
Tert-Butyl Alcohol (TBA)	96	95	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	116	117	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	115	118	76-124	68-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	109	111	80-123	73-130	2	0-20	
Ethanol	98	88	61-139	48-152	12	0-27	

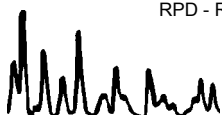
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

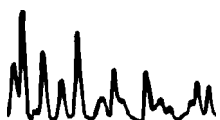
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-01-0712

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 1/11/10

Page 1 of 2

LABORATORY CLIENT: PARSONS		CLIENT PROJECT NAME / NUMBER: 746442 DFSP NORWALK GWM		P.O. NO.:	
ADDRESS: 100 W. WALNUT ST.		PROJECT CONTACT: MARY LUCAS		LAB USE ONLY <input checked="" type="checkbox"/> <input type="checkbox"/> - <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CITY: PASADENA STATE: Ca. ZIP: 91124		SAMPLER(S) (PRINT): MARY LUCAS		COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TEL: (626) 440 6032 E-MAIL: MARY.LUCAS@PARSONS.COM		M. Hunsler TECH		COOLER RECEIPT TEMP= _____ °C	

TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g) EPA 805	TPH (g) or (C6-C36) or (C6-C44)	TPH (as SPS EPA 805)	STEX (MDE) (2000) (EPA 805)	VOCs (8260B) INCLUDE STEX, MIBK, TBA	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	
			DATE	TIME																		
1	TB		1/11/10	0850	W	2	X				X											
2	EXP-1		1/11/10	0804	W	8	X	X			X											
3	EXP-2		1/11/10	0853	W	8	X	X			X											
4	EXP-3		1/11/10	0940	W	8	X	X			X											
5	GMM-47		1/11/10	1030	W	5		X			X											
6	GMM-47 DUP		1/11/10	—	W	5		X			X											
7	GMM-57		1/11/10	1120	W	5		X			X											
8	GMM-58		1/11/10	1242	W	5		X			X											
9	GMM-58 DUP		1/11/10	—	W	5		X			X											
10	GMM-59		1/11/10	1331	W	5		X			X											

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i> CEC	Date: 1/12/10	Time: 1254
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 1/12/10	Time: 1345
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date:	Time:



Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

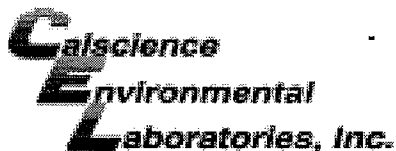
CHAIN OF CUSTODY RECORD

Date 1/11/10
Page 2 of 2

LABORATORY CLIENT: <u>PARSONS</u>				CLIENT PROJECT NAME / NUMBER: <u>DFSP NORWALK CWM/746442</u>				P.O. NO.:													
ADDRESS: <u>100 W. WALNUT ST.</u>				PROJECT CONTACT: <u>MARY LUCAS</u>				LAB USE ONLY <input checked="" type="checkbox"/> <input type="checkbox"/> - <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>													
CITY: <u>PASADENA</u>		STATE: <u>Ca</u>		ZIP: <u>91124</u>		SAMPLER(S): (PRINT) <u>BLAINE M. HONSKEL TECH</u>		COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		COOLER RECEIPT TEMP= _____ °C											
TEL: <u>(626) 440 6032</u>		E-MAIL: <u>MARY.LUCAS@PARSONS.COM</u>		REQUESTED ANALYSES																	
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD																					
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>																					
SPECIAL INSTRUCTIONS:																					
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g) EPA 8015	TPH (d) or (C6-C36) or (C6-C44)	TPH (as JPS EPA 8015)	VOCs (8260B) <u>INCLUDE STX, MIB, TBA</u>	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	
			DATE	TIME																	
	11	GMW-600	1/11/10	1413	W	5			X	X											
	12	GMW-601	1/11/10	1504	W	5			X	X											
Relinquished by: (Signature) <u>[Signature]</u>						Received by: (Signature/Affiliation) <u>[Signature] CEC</u>						Date: <u>1/12/10</u>		Time: <u>12:54</u>							
Relinquished by: (Signature) <u>[Signature]</u>						Received by: (Signature/Affiliation) <u>[Signature]</u>						Date: <u>1/12/10</u>		Time: <u>13:45</u>							
Relinquished by: (Signature)						Received by: (Signature/Affiliation)						Date:		Time:							

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

2010-06-09 09:59:07 02



WORK ORDER #: 10-01-0712

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 01/12/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.5 °C + 0.5°C (CF) = 3.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: AM

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: AM

Sample _____ No (Not Intact) Not Present Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA^h VOAn₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

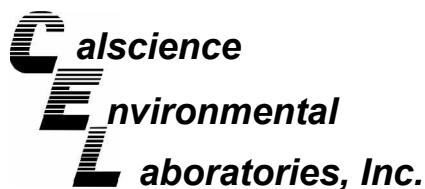
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** 091217B **Checked by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** PS

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** PS



January 21, 2010

Mary Lucas
Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Subject: **CalScience Work Order No.: 10-01-0859**
Client Reference: DFSP NORWALK GWM / 746442

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/13/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Ranjit K. F. Clarke".

CalScience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22 (MID)	10-01-0859-2-G	01/13/10 07:39	Aqueous	GC 27	01/14/10	01/15/10 23:51	100114B10

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

GW-16	10-01-0859-3-G	01/13/10 08:30	Aqueous	GC 27	01/14/10	01/16/10 00:10	100114B10
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Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

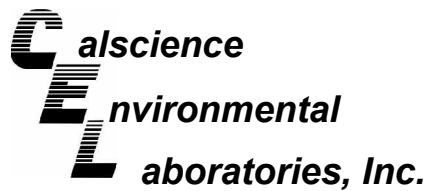
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	460	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	92	68-140			

GW-14	10-01-0859-4-G	01/13/10 09:39	Aqueous	GC 27	01/14/10	01/16/10 00:29	100114B10
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Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	2100	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	103	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8015B (M)

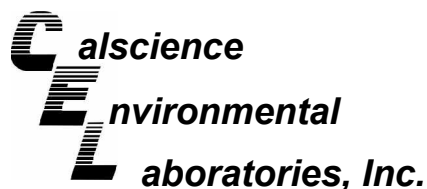
Project: DFSP NORWALK GWM / 746442

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-366-56	N/A	Aqueous	GC 27	01/14/10	01/15/10 22:57	100114B10

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	101	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB3	10-01-0859-1-B	01/13/10 07:00	Aqueous	GC 5	01/19/10	01/19/10 20:12	100119B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	94	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22 (MID)	10-01-0859-2-D	01/13/10 07:39	Aqueous	GC 5	01/19/10	01/19/10 20:45	100119B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	93	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-16	10-01-0859-3-D	01/13/10 08:30	Aqueous	GC 5	01/19/10	01/19/10 21:18	100119B01

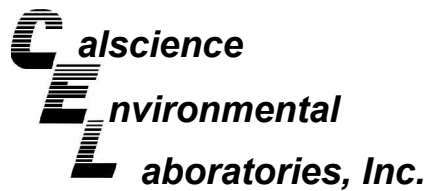
Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	95	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	10-01-0859-4-D	01/13/10 09:39	Aqueous	GC 5	01/19/10	01/19/10 22:23	100119B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	950	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	104	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-3,867	N/A	Aqueous	GC 5	01/19/10	01/19/10 12:22	100119B01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	80	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

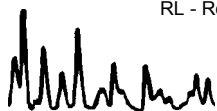
Project: DFSP NORWALK GWM / 746442

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-16	10-01-0859-3-J	01/13/10 08:30	Aqueous	GC/MS TT	01/14/10	01/15/10 17:46	100114L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol	ND	10	1	
Aniline	ND	10	1		Dibenzofuran	ND	10	1	
Phenol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		Diethyl Phthalate	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Fluorene	ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Azobenzene	ND	10	1	
2-Methylphenol	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Hexachlorobenzene	ND	10	1	
Hexachloroethane	ND	10	1		Pentachlorophenol	ND	10	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	10	1	
Isophorone	ND	10	1		Anthracene	ND	10	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene	ND	10	1	
Benzoic Acid	ND	50	1		Benzidine	ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	30	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dinitrophenol	ND	50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorophenol	64	7-121			Phenol-d6	45	1-127		
Nitrobenzene-d5	100	50-146			2-Fluorobiphenyl	84	42-138		
2,4,6-Tribromophenol	91	41-137			p-Terphenyl-d14	89	47-173		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

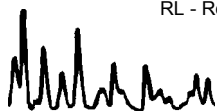
Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	10-01-0859-4-J	01/13/10 09:39	Aqueous	GC/MS TT	01/14/10	01/15/10 18:16	100114L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol	ND	10	1	
Aniline	ND	10	1		Dibenzofuran	ND	10	1	
Phenol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		Diethyl Phthalate	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Fluorene	ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Azobenzene	ND	10	1	
2-Methylphenol	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Hexachlorobenzene	ND	10	1	
Hexachloroethane	ND	10	1		Pentachlorophenol	ND	10	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	10	1	
Isophorone	ND	10	1		Anthracene	ND	10	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene	ND	10	1	
Benzoic Acid	ND	50	1		Benzidine	ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
Naphthalene	14	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dinitrophenol	ND	50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorophenol	67	7-121			Phenol-d6	46	1-127		
Nitrobenzene-d5	99	50-146			2-Fluorobiphenyl	82	42-138		
2,4,6-Tribromophenol	94	41-137			p-Terphenyl-d14	84	47-173		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

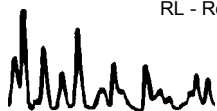
Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-003-2,823	N/A	Aqueous	GC/MS TT	01/14/10	01/15/10 14:40	100114L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol	ND	10	1	
Aniline	ND	10	1		Dibenzofuran	ND	10	1	
Phenol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		Diethyl Phthalate	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Fluorene	ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Azobenzene	ND	10	1	
2-Methylphenol	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Hexachlorobenzene	ND	10	1	
Hexachloroethane	ND	10	1		Pentachlorophenol	ND	10	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	10	1	
Isophorone	ND	10	1		Anthracene	ND	10	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene	ND	10	1	
Benzoic Acid	ND	50	1		Benzidine	ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dinitrophenol	ND	50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorophenol	56	7-121			Phenol-d6	39	1-127		
Nitrobenzene-d5	93	50-146			2-Fluorobiphenyl	81	42-138		
2,4,6-Tribromophenol	65	41-137			p-Terphenyl-d14	73	47-173		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB3	10-01-0859-1-A	01/13/10 07:00	Aqueous	GC/MS X	01/14/10	01/15/10 04:00	100114L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	114	80-132		1,2-Dichloroethane-d4	105	80-141	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	91	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22 (MID)	10-01-0859-2-A	01/13/10 07:39	Aqueous	GC/MS X	01/14/10	01/15/10 04:31	100114L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	9.7	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	13	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	24	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	2.1	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	80-132	
Toluene-d8	101	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	114	80-141	
1,4-Bromofluorobenzene	93	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-16	10-01-0859-3-A	01/13/10 08:30	Aqueous	GC/MS X	01/14/10	01/15/10 05:02	100114L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	6.4	10	3.5	1	J
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	80-132	
Toluene-d8	103	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	113	80-141	
1,4-Bromofluorobenzene	93	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	10-01-0859-4-A	01/13/10 09:39	Aqueous	GC/MS X	01/14/10	01/15/10 05:34	100114L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	62	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	1.0	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	15	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.55	1.0	0.28	1	J	Naphthalene	15	10	2.5	1	
sec-Butylbenzene	2.3	1.0	0.20	1		n-Propylbenzene	12	1.0	0.79	1	
tert-Butylbenzene	0.92	1.0	0.28	1	J	Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	0.35	0.50	0.33	1	J
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	0.56	1.0	0.30	1	J
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	0.48	1.0	0.24	1	J
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	0.39	1.0	0.23	1	J
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	1.1	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	0.35	0.50	0.24	1	J
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	17	0.50	0.30	1	
c-1,2-Dichloroethene	0.50	1.0	0.49	1	J	Tert-Butyl Alcohol (TBA)	18	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	108	80-132		1,2-Dichloroethane-d4	98	80-141	
Toluene-d8	108	80-120		1,4-Bromofluorobenzene	100	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,915	N/A	Aqueous	GC/MS X	01/14/10	01/15/10 00:49	100114L02

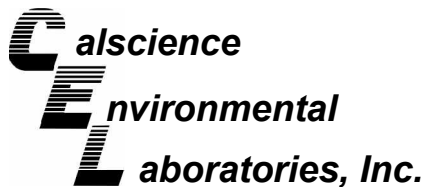
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	1.0	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	110	80-132		1,2-Dichloroethane-d4	103	80-141	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	90	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Parsons, Inc.
 100 West Walnut Street
 Pasadena, CA 91124-0002

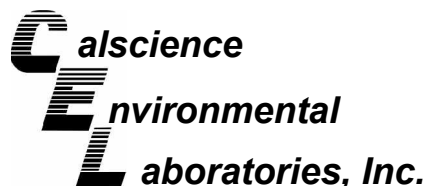
Date Received: 01/13/10
 Work Order No: 10-01-0859
 Preparation: EPA 5030B
 Method: EPA 8015B (M)

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-1285-1	Aqueous	GC 5	01/19/10	01/19/10	100119S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	90	87	68-122	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

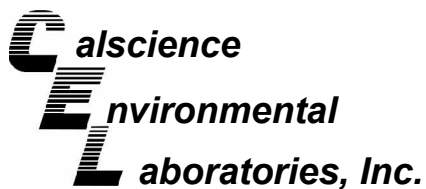
Date Received: 01/13/10
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0868-3	Aqueous	GC/MS X	01/14/10	01/15/10	100114S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	109	72-120	2	0-20	
Toluene	105	108	74-122	2	0-20	
Ethylbenzene	106	107	78-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	85	87	72-126	2	0-21	
Tert-Butyl Alcohol (TBA)	100	97	72-126	3	0-20	
Diisopropyl Ether (DIPE)	106	106	71-137	0	0-23	
Ethyl-t-Butyl Ether (ETBE)	100	100	74-128	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	100	103	76-124	3	0-20	
Ethanol	105	103	35-167	2	0-48	
1,1-Dichloroethene	90	88	60-132	1	0-24	
1,2-Dibromoethane	100	100	80-120	1	0-20	
1,2-Dichlorobenzene	92	94	80-120	2	0-20	
Carbon Tetrachloride	115	117	63-135	2	0-20	
Chlorobenzene	98	99	80-120	1	0-20	
Trichloroethene	99	99	69-120	0	0-20	
Vinyl Chloride	92	96	58-130	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

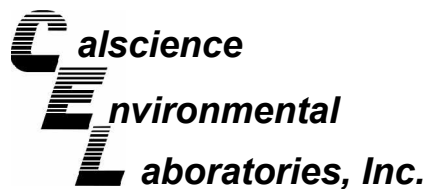
Date Received: N/A
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-56	Aqueous	GC 27	01/14/10	01/15/10	100114B10

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	111	112	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

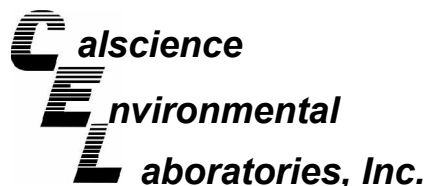
Date Received: N/A
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,867	Aqueous	GC 5	01/19/10	01/19/10	100119B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	87	86	78-120	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0859
Preparation: EPA 3510C
Method: EPA 8270C

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
095-01-003-2,823	Aqueous	GC/MS TT	01/14/10	01/15/10	100114L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	54	57	4-142	0-165	4	0-24	
2-Chlorophenol	95	96	53-113	43-123	2	0-17	
1,4-Dichlorobenzene	90	90	50-122	38-134	0	0-19	
N-Nitroso-di-n-propylamine	95	95	56-146	41-161	0	0-22	
Naphthalene	85	85	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	96	98	55-121	44-132	2	0-18	
Dimethyl Phthalate	91	92	0-112	0-131	0	0-20	
Acenaphthylene	78	77	33-145	14-164	1	0-20	
Acenaphthene	87	85	55-139	41-153	2	0-17	
4-Nitrophenol	61	65	1-145	0-169	6	0-29	
2,4-Dinitrotoluene	112	115	41-161	21-181	2	0-22	
Fluorene	85	85	59-121	49-131	1	0-20	
Pentachlorophenol	86	86	34-130	18-146	0	0-23	
Pyrene	83	84	38-170	16-192	2	0-27	
Butyl Benzyl Phthalate	91	91	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	95	95	49-121	37-133	0	0-19	

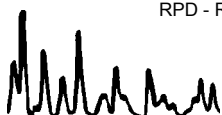
Total number of LCS compounds : 16

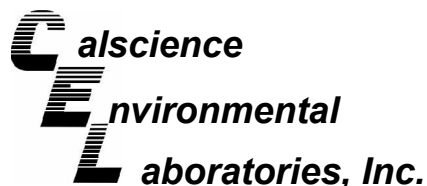
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0859
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,915	Aqueous	GC/MS X	01/14/10	01/14/10	100114L02		
<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	107	106	80-122	73-129	1	0-20	
Carbon Tetrachloride	115	116	68-140	56-152	1	0-20	
Chlorobenzene	99	99	80-120	73-127	0	0-20	
1,2-Dibromoethane	97	99	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	94	94	80-120	73-127	0	0-20	
1,1-Dichloroethene	91	89	72-132	62-142	3	0-25	
Ethylbenzene	107	109	80-126	72-134	2	0-20	
Toluene	107	105	80-121	73-128	2	0-20	
Trichloroethene	105	102	80-123	73-130	3	0-20	
Vinyl Chloride	92	93	67-133	56-144	0	0-20	
Methyl-t-Butyl Ether (MTBE)	85	85	75-123	67-131	0	0-20	
Tert-Butyl Alcohol (TBA)	94	94	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	105	105	71-131	61-141	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	99	99	76-124	68-132	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	103	102	80-123	73-130	0	0-20	
Ethanol	111	96	61-139	48-152	15	0-27	

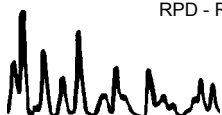
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

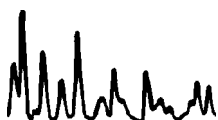
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-01-0859

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 1/13/10

Page 1 of 1

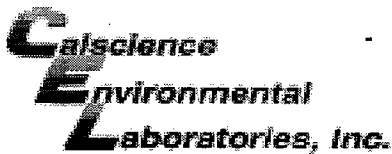
LABORATORY CLIENT: PARSONS		CLIENT PROJECT NAME / NUMBER: DFSPNORWALK GWM/946442		P.O. NO.:	
ADDRESS: 100 W. WALNUT ST.		PROJECT CONTACT: MARY LUCAS		LAB USE ONLY 59	
CITY: Pasadena STATE: Ca. ZIP: 91124		SAMPLER(S): (PRINT) M. Housler / BLAINE TECH		COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TEL: (626) 440 6032 E-MAIL: MARY.LUCAS@PARSONS.COM		COOLER RECEIPT <input checked="" type="checkbox"/>		TEMP: _____ °C	
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD		REQUESTED ANALYSES			
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>					
SPECIAL INSTRUCTIONS:					

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g) EPA 805	TPH (l) or (C6-C36) or (C6-C44)	TPH (as JPS EPA 805)	BTEX / MTBE (8260B) or ()	VOCs (8260B) ^{include STX MTBE TBA}	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C) 8270D	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	
			DATE	TIME																		
1	TR3		1/13/10	0700	W	2	X				X											
2	MW-22(MID)		1/13/10	0739	W	8	X	X			X											
3	GW-16		1/13/10	0830	W	10	X	X			X			X								
4	GW-14		1/13/10	0939	W	10	X	X			X			X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Aly Lucas CBL	Date: 1/13/10	Time: 12:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle CBL	Date: 1/13/10	Time: 12:35
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision



WORK ORDER #: 10-01-0840⁵⁹

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON

DATE: 01/13/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.2 °C + 0.5°C (CF) = 1.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only

Initial: AM

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Initial: AM

Sample _____ No (Not Intact) Not Present

Initial: W.S.C

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA⁶h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

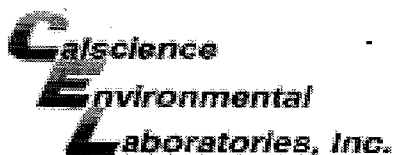
500AGB 500AGJ² 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ Trip Blank Lot#: 091217B Checked by: W.S.C

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: RN

Preservative: h: HCL n: HNO3 na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{nna}: ZnAc₂+NaOH f: Field-filtered Scanned by: W.S.C



WORK ORDER #: 10-01-0859

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- Samples NOT RECEIVED but listed on COC
- Samples received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s)/preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample labels do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Containers
 - Analysis
- Sample containers compromised – Note in comments
 - Leaking
 - Broken
 - Without Labels
- Air sample containers compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into CalScience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

(-3) collection time per label is 09:39
 (-4) _____ 08:30

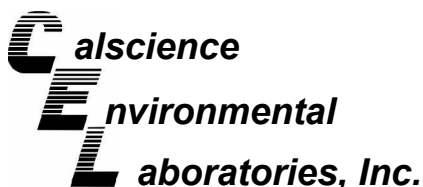
HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: WJC 01/13/10



January 22, 2010

Mary Lucas
Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Subject: **CalScience Work Order No.: 10-01-0860**
Client Reference: DFSP NORWALK GWM / 746442

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/13/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Ranjit K. F. Clarke".

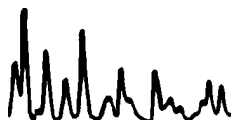
CalScience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Work Order Case Narrative

Project Name: DFSP NORWALK GWM / 746442
CalScience Work Order Number: 10-01-0860

1. Volatile Organic Compounds – EPA 8260B:

Sample “GMW-62” was re-analyzed at 1x dilution in order to report MTBE down to 0.5 ppb per permit requirements. The MTBE results for this samples are not listed with the rest of the VOCs compounds, but on a separate page. The reporting limits are set at 1.0 ug/L (ppb) for this testcode, but the results are reported down to the method detection limit (MDL) which is 0.30 ug/L.



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-62	10-01-0860-2-D	01/12/10 08:14	Aqueous	GC 27	01/14/10	01/15/10 20:32	100114B09

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	2200	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	97	68-140			

GMW-63	10-01-0860-3-D	01/12/10 07:38	Aqueous	GC 27	01/14/10	01/15/10 20:50	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	101	68-140			

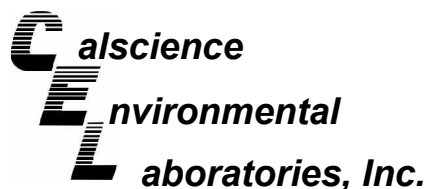
GMW-64	10-01-0860-4-D	01/12/10 09:37	Aqueous	GC 27	01/14/10	01/15/10 21:09	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	108	68-140			

GMW-65	10-01-0860-5-D	01/12/10 08:49	Aqueous	GC 27	01/14/10	01/15/10 21:28	100114B09
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-14	10-01-0860-6-G	01/12/10 12:27	Aqueous	GC 27	01/14/10	01/15/10 21:46	100114B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	106	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	10-01-0860-7-G	01/12/10 13:07	Aqueous	GC 27	01/14/10	01/15/10 22:04	100114B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	100	68-140			

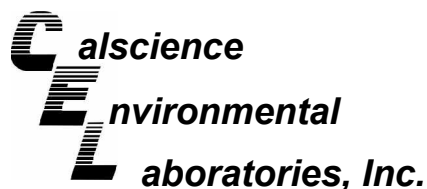
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-2	10-01-0860-8-G	01/12/10 14:09	Aqueous	GC 27	01/14/10	01/15/10 22:22	100114B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	120	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	103	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-366-55	N/A	Aqueous	GC 27	01/14/10	01/15/10 16:01	100114B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	112	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-14	10-01-0860-6-F	01/12/10 12:27	Aqueous	GC 5	01/19/10	01/19/10 18:34	100119B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	93	38-134			

GW-13	10-01-0860-7-F	01/12/10 13:07	Aqueous	GC 5	01/19/10	01/19/10 19:06	100119B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	94	38-134			

GW-2	10-01-0860-8-F	01/12/10 14:09	Aqueous	GC 5	01/19/10	01/19/10 19:39	100119B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	96	38-134			

Method Blank	099-12-247-3,867	N/A	Aqueous	GC 5	01/19/10	01/19/10 12:22	100119B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	80	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

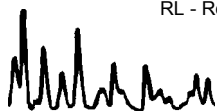
Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	10-01-0860-7-I	01/12/10 13:07	Aqueous	GC/MS TT	01/14/10	01/15/10 19:15	100114L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol	ND	10	1	
Aniline	ND	10	1		Dibenzofuran	ND	10	1	
Phenol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		Diethyl Phthalate	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Fluorene	ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Azobenzene	ND	10	1	
2-Methylphenol	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Hexachlorobenzene	ND	10	1	
Hexachloroethane	ND	10	1		Pentachlorophenol	ND	10	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	10	1	
Isophorone	ND	10	1		Anthracene	ND	10	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene	ND	10	1	
Benzoic Acid	ND	50	1		Benzidine	ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dinitrophenol	ND	50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorophenol	71	7-121			Phenol-d6	49	1-127		
Nitrobenzene-d5	104	50-146			2-Fluorobiphenyl	89	42-138		
2,4,6-Tribromophenol	95	41-137			p-Terphenyl-d14	93	47-173		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

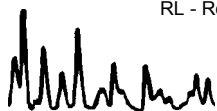
Project: DFSP NORWALK GWM / 746442

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-2	10-01-0860-8-I	01/12/10 14:09	Aqueous	GC/MS TT	01/14/10	01/15/10 19:49	100114L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol	ND	10	1	
Aniline	ND	10	1		Dibenzofuran	ND	10	1	
Phenol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		Diethyl Phthalate	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Fluorene	ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Azobenzene	ND	10	1	
2-Methylphenol	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Hexachlorobenzene	ND	10	1	
Hexachloroethane	ND	10	1		Pentachlorophenol	ND	10	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	10	1	
Isophorone	ND	10	1		Anthracene	ND	10	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene	ND	10	1	
Benzoic Acid	ND	50	1		Benzidine	ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dinitrophenol	ND	50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorophenol	74	7-121			Phenol-d6	51	1-127		
Nitrobenzene-d5	103	50-146			2-Fluorobiphenyl	87	42-138		
2,4,6-Tribromophenol	96	41-137			p-Terphenyl-d14	93	47-173		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

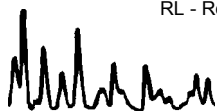
Project: DFSP NORWALK GWM / 746442

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-003-2,823	N/A	Aqueous	GC/MS TT	01/14/10	01/15/10 14:40	100114L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol	ND	10	1	
Aniline	ND	10	1		Dibenzofuran	ND	10	1	
Phenol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		Diethyl Phthalate	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Fluorene	ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Azobenzene	ND	10	1	
2-Methylphenol	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Hexachlorobenzene	ND	10	1	
Hexachloroethane	ND	10	1		Pentachlorophenol	ND	10	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	10	1	
Isophorone	ND	10	1		Anthracene	ND	10	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene	ND	10	1	
Benzoic Acid	ND	50	1		Benzidine	ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dinitrophenol	ND	50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorophenol	56	7-121			Phenol-d6	39	1-127		
Nitrobenzene-d5	93	50-146			2-Fluorobiphenyl	81	42-138		
2,4,6-Tribromophenol	65	41-137			p-Terphenyl-d14	73	47-173		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 1 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB2	10-01-0860-1-A	01/12/10 07:00	Aqueous	GC/MS S	01/13/10	01/14/10 04:20	100113L02


Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	80-132	
Toluene-d8	99	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	119	80-141	
1,4-Bromofluorobenzene	82	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-62	10-01-0860-2-A	01/12/10 08:14	Aqueous	GC/MS S	01/13/10	01/14/10 08:07	100113L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	1000	400	20		1,1-Dichloropropene	ND	20	5.1	20	
Benzene	3900	10	5.7	20		c-1,3-Dichloropropene	ND	10	5.7	20	
Bromobenzene	ND	20	6.7	20		t-1,3-Dichloropropene	ND	10	7.2	20	
Bromochloromethane	ND	20	14	20		Ethylbenzene	22	10	4.4	20	
Bromodichloromethane	ND	20	6.6	20		2-Hexanone	ND	200	140	20	
Bromoform	ND	20	11	20		Isopropylbenzene	26	20	4.5	20	
Bromomethane	ND	100	86	20		p-Isopropyltoluene	ND	20	5.2	20	
2-Butanone	ND	200	140	20		Methylene Chloride	ND	100	52	20	
n-Butylbenzene	ND	20	5.5	20		4-Methyl-2-Pentanone	ND	200	88	20	
sec-Butylbenzene	ND	20	4.1	20		Naphthalene	ND	200	51	20	
tert-Butylbenzene	ND	20	5.5	20		n-Propylbenzene	ND	20	16	20	
Carbon Disulfide	ND	200	38	20		Styrene	ND	20	6.0	20	
Carbon Tetrachloride	ND	10	8.5	20		1,1,1,2-Tetrachloroethane	ND	20	7.0	20	
Chlorobenzene	ND	20	4.4	20		1,1,2,2-Tetrachloroethane	ND	20	8.8	20	
Chloroethane	ND	100	26	20		Tetrachloroethene	ND	20	10	20	
Chloroform	ND	20	6.6	20		Toluene	ND	10	6.5	20	
Chloromethane	ND	100	9.7	20		1,2,3-Trichlorobenzene	ND	20	6.1	20	
2-Chlorotoluene	ND	20	11	20		1,2,4-Trichlorobenzene	ND	20	9.7	20	
4-Chlorotoluene	ND	20	4.2	20		1,1,1-Trichloroethane	ND	20	9.0	20	
Dibromochloromethane	ND	20	9.7	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	200	13	20	
1,2-Dibromo-3-Chloropropane	ND	100	62	20		1,1,2-Trichloroethane	ND	20	11	20	
1,2-Dibromoethane	ND	20	9.3	20		Trichloroethene	ND	20	6.1	20	
Dibromomethane	ND	20	12	20		Trichlorofluoromethane	ND	200	6.2	20	
1,2-Dichlorobenzene	ND	20	5.4	20		1,2,3-Trichloropropane	ND	100	27	20	
1,3-Dichlorobenzene	ND	20	5.7	20		1,2,4-Trimethylbenzene	19	20	4.9	20	J
1,4-Dichlorobenzene	ND	20	4.2	20		1,3,5-Trimethylbenzene	ND	20	4.6	20	
Dichlorodifluoromethane	ND	20	9.8	20		Vinyl Acetate	ND	200	140	20	
1,1-Dichloroethane	ND	20	7.5	20		Vinyl Chloride	ND	10	6.5	20	
1,2-Dichloroethane	100	10	6.3	20		p/m-Xylene	23	10	9.1	20	
1,1-Dichloroethene	ND	20	8.0	20		o-Xylene	7.4	10	4.7	20	J
c-1,2-Dichloroethene	ND	20	9.7	20		Tert-Butyl Alcohol (TBA)	ND	200	71	20	
t-1,2-Dichloroethene	ND	20	8.1	20		Diisopropyl Ether (DIPE)	ND	40	6.2	20	
1,2-Dichloropropane	ND	20	7.6	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	5.3	20	
1,3-Dichloropropane	ND	20	7.6	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	5.7	20	
2,2-Dichloropropane	ND	20	9.2	20		Ethanol	ND	2000	1000	20	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	132	80-132		1,2-Dichloroethane-d4	123	80-141	
Toluene-d8	95	80-120		1,4-Bromofluorobenzene	87	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63	10-01-0860-3-A	01/12/10 07:38	Aqueous	GC/MS S	01/13/10	01/14/10 08:40	100113L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	0.39	0.50	0.28	1	J	t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	127	80-132	
Toluene-d8	99	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	120	80-141	
1,4-Bromofluorobenzene	84	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-64	10-01-0860-4-A	01/12/10 09:37	Aqueous	GC/MS S	01/13/10	01/14/10 09:12	100113L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	129	80-132	
Toluene-d8	98	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	123	80-141	
1,4-Bromofluorobenzene	83	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-65	10-01-0860-5-A	01/12/10 08:49	Aqueous	GC/MS S	01/13/10	01/14/10 09:44	100113L02


Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	0.63	5.0	0.49	1	J	1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	126	80-132	
Toluene-d8	97	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	123	80-141	
1,4-Bromofluorobenzene	83	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-14	10-01-0860-6-A	01/12/10 12:27	Aqueous	GC/MS S	01/13/10	01/14/10 10:16	100113L02


Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	13	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	2.7	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	4.2	10	3.5	1	J
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	3.2	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	130	80-132	
Toluene-d8	98	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	124	80-141	
1,4-Bromofluorobenzene	84	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	10-01-0860-7-A	01/12/10 13:07	Aqueous	GC/MS S	01/13/10	01/14/10 10:48	100113L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	21	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	4.8	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	5.2	10	3.5	1	J
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	3.7	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	128	80-132	
Toluene-d8	96	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	124	80-141	
1,4-Bromofluorobenzene	83	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-2	10-01-0860-8-B	01/12/10 14:09	Aqueous	GC/MS S	01/14/10	01/15/10 07:27	100114L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	3.6	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	0.50	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	0.32	1.0	0.23	1	J
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	5.0	4.3	1		Methylene Chloride	ND	5.0	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	5.0	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	0.50	0.45	1	
1,2-Dichloroethane	23	0.50	0.31	1		o-Xylene	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	1.8	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	8.8	10	3.5	1	J
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	2.6	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	124	80-132	
Toluene-d8	96	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	111	80-141	
1,4-Bromofluorobenzene	89	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,906	N/A	Aqueous	GC/MS S	01/13/10	01/14/10 03:48	100113L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	1.0	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	120	80-132		1,2-Dichloroethane-d4	117	80-141	
Toluene-d8	94	80-120		1,4-Bromofluorobenzene	82	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM / 746442

Page 10 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,916	N/A	Aqueous	GC/MS S	01/14/10	01/15/10 03:12	100114L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	1.0	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	80-132	
Toluene-d8	96	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	119	80-141	
1,4-Bromofluorobenzene	85	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-62	10-01-0860-2-B	01/12/10 08:14	Aqueous	GC/MS U	01/20/10	01/21/10 08:13	100120L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

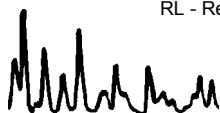
Parameter	Result	RL	MDL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromofluoromethane	122	80-132				
1,2-Dichloroethane-d4	124	80-141				
Toluene-d8	101	80-120				
1,4-Bromofluorobenzene	105	76-120				

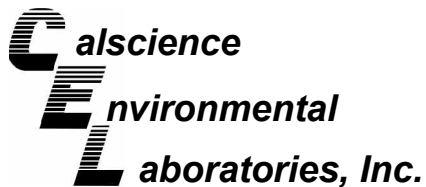
Method Blank	099-10-006-31,983	N/A	Aqueous	GC/MS U	01/20/10	01/21/10 02:35	100120L02
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromofluoromethane	121	80-132				
1,2-Dichloroethane-d4	130	80-141				
Toluene-d8	101	80-120				
1,4-Bromofluorobenzene	84	76-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

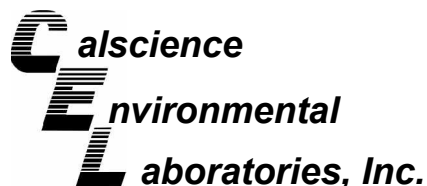
Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-1285-1	Aqueous	GC 5	01/19/10	01/19/10	100119S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	90	87	68-122	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

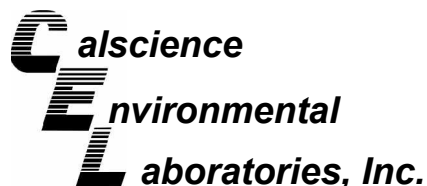
Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-1319-1	Aqueous	GC/MS U	01/20/10	01/21/10	100120S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	117	124	72-120	4	0-20	3
Carbon Tetrachloride	122	125	63-135	3	0-20	
Chlorobenzene	102	107	80-120	4	0-20	
1,2-Dibromoethane	108	114	80-120	5	0-20	
1,2-Dichlorobenzene	94	95	80-120	1	0-20	
1,1-Dichloroethene	123	126	60-132	2	0-24	
Ethylbenzene	126	130	78-120	3	0-20	3
Toluene	109	117	74-122	6	0-20	
Trichloroethene	112	117	69-120	5	0-20	
Vinyl Chloride	96	105	58-130	9	0-20	
Methyl-t-Butyl Ether (MTBE)	107	126	72-126	12	0-21	
Tert-Butyl Alcohol (TBA)	88	105	72-126	18	0-20	
Diisopropyl Ether (DIPE)	114	125	71-137	10	0-23	
Ethyl-t-Butyl Ether (ETBE)	106	121	74-128	13	0-20	
Tert-Amyl-Methyl Ether (TAME)	110	121	76-124	9	0-20	
Ethanol	67	89	35-167	27	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

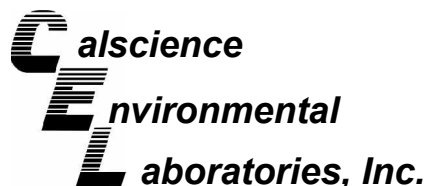
Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0674-1	Aqueous	GC/MS S	01/13/10	01/14/10	100113S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	98	72-120	3	0-20	
Carbon Tetrachloride	93	90	63-135	3	0-20	
Chlorobenzene	99	96	80-120	3	0-20	
1,2-Dibromoethane	106	103	80-120	2	0-20	
1,2-Dichlorobenzene	93	95	80-120	2	0-20	
1,1-Dichloroethene	90	87	60-132	4	0-24	
Ethylbenzene	108	105	78-120	2	0-20	
Toluene	103	97	74-122	6	0-20	
Trichloroethene	99	96	69-120	3	0-20	
Vinyl Chloride	80	80	58-130	0	0-20	
Methyl-t-Butyl Ether (MTBE)	93	93	72-126	0	0-21	
Tert-Butyl Alcohol (TBA)	97	96	72-126	1	0-20	
Diisopropyl Ether (DIPE)	99	100	71-137	0	0-23	
Ethyl-t-Butyl Ether (ETBE)	95	97	74-128	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	109	105	76-124	3	0-20	
Ethanol	103	98	35-167	4	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

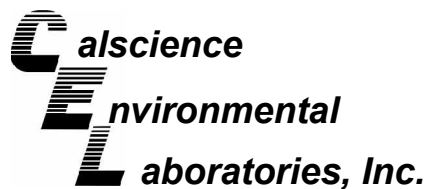
Date Received: 01/13/10
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0899-3	Aqueous	GC/MS S	01/14/10	01/15/10	100114S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	100	72-120	2	0-20	
Carbon Tetrachloride	94	93	63-135	0	0-20	
Chlorobenzene	98	99	80-120	1	0-20	
1,2-Dibromoethane	102	102	80-120	0	0-20	
1,2-Dichlorobenzene	95	94	80-120	1	0-20	
1,1-Dichloroethene	93	91	60-132	3	0-24	
Ethylbenzene	107	108	78-120	0	0-20	
Toluene	101	98	74-122	3	0-20	
Trichloroethene	98	101	69-120	2	0-20	
Vinyl Chloride	97	99	58-130	2	0-20	
Methyl-t-Butyl Ether (MTBE)	42	47	72-126	2	0-21	3
Tert-Butyl Alcohol (TBA)	98	118	72-126	18	0-20	
Diisopropyl Ether (DIPE)	103	102	71-137	1	0-23	
Ethyl-t-Butyl Ether (ETBE)	99	101	74-128	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	107	106	76-124	1	0-20	
Ethanol	101	114	35-167	11	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

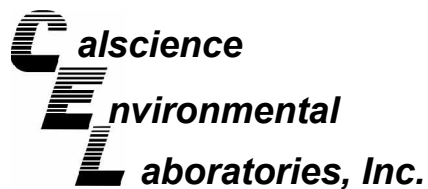
Date Received: N/A
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-55	Aqueous	GC 27	01/14/10	01/15/10	100114B09

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as JP5	111	111	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

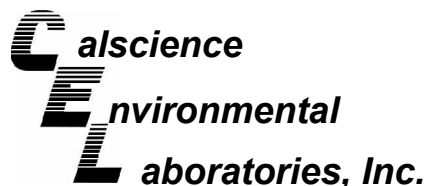
Date Received: N/A
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,867	Aqueous	GC 5	01/19/10	01/19/10	100119B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	87	86	78-120	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0860
Preparation: EPA 3510C
Method: EPA 8270C

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
095-01-003-2,823	Aqueous	GC/MS TT	01/14/10	01/15/10	100114L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	54	57	4-142	0-165	4	0-24	
2-Chlorophenol	95	96	53-113	43-123	2	0-17	
1,4-Dichlorobenzene	90	90	50-122	38-134	0	0-19	
N-Nitroso-di-n-propylamine	95	95	56-146	41-161	0	0-22	
Naphthalene	85	85	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	96	98	55-121	44-132	2	0-18	
Dimethyl Phthalate	91	92	0-112	0-131	0	0-20	
Acenaphthylene	78	77	33-145	14-164	1	0-20	
Acenaphthene	87	85	55-139	41-153	2	0-17	
4-Nitrophenol	61	65	1-145	0-169	6	0-29	
2,4-Dinitrotoluene	112	115	41-161	21-181	2	0-22	
Fluorene	85	85	59-121	49-131	1	0-20	
Pentachlorophenol	86	86	34-130	18-146	0	0-23	
Pyrene	83	84	38-170	16-192	2	0-27	
Butyl Benzyl Phthalate	91	91	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	95	95	49-121	37-133	0	0-19	

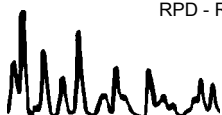
Total number of LCS compounds : 16

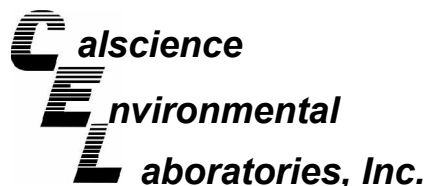
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,983	Aqueous	GC/MS U	01/20/10	01/21/10	100120L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	109	80-122	73-129	9	0-20	
Carbon Tetrachloride	111	118	68-140	56-152	6	0-20	
Chlorobenzene	98	106	80-120	73-127	8	0-20	
1,2-Dibromoethane	105	110	80-121	73-128	4	0-20	
1,2-Dichlorobenzene	97	103	80-120	73-127	6	0-20	
1,1-Dichloroethene	109	124	72-132	62-142	13	0-25	
Ethylbenzene	109	117	80-126	72-134	7	0-20	
Toluene	100	106	80-121	73-128	5	0-20	
Trichloroethene	99	109	80-123	73-130	9	0-20	
Vinyl Chloride	87	92	67-133	56-144	6	0-20	
Methyl-t-Butyl Ether (MTBE)	104	112	75-123	67-131	7	0-20	
Tert-Butyl Alcohol (TBA)	99	90	75-123	67-131	10	0-20	
Diisopropyl Ether (DIPE)	108	116	71-131	61-141	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	105	115	76-124	68-132	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	109	116	80-123	73-130	5	0-20	
Ethanol	92	93	61-139	48-152	1	0-27	

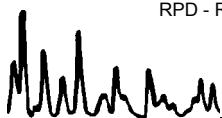
Total number of LCS compounds : 16

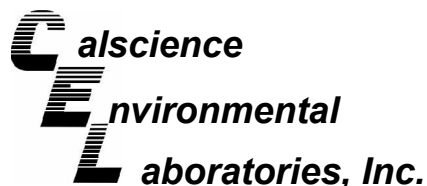
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,906	Aqueous	GC/MS S	01/13/10	01/14/10	100113L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	114	106	80-122	73-129	7	0-20	
Carbon Tetrachloride	105	98	68-140	56-152	7	0-20	
Chlorobenzene	109	106	80-120	73-127	3	0-20	
1,2-Dibromoethane	111	109	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	103	100	80-120	73-127	3	0-20	
1,1-Dichloroethene	104	98	72-132	62-142	6	0-25	
Ethylbenzene	122	116	80-126	72-134	5	0-20	
Toluene	115	106	80-121	73-128	8	0-20	
Trichloroethene	114	105	80-123	73-130	8	0-20	
Vinyl Chloride	98	95	67-133	56-144	3	0-20	
Methyl-t-Butyl Ether (MTBE)	90	96	75-123	67-131	7	0-20	
Tert-Butyl Alcohol (TBA)	95	99	75-123	67-131	5	0-20	
Diisopropyl Ether (DIPE)	102	105	71-131	61-141	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	94	99	76-124	68-132	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	110	107	80-123	73-130	2	0-20	
Ethanol	96	104	61-139	48-152	8	0-27	

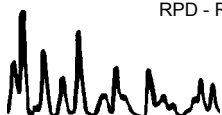
Total number of LCS compounds : 16

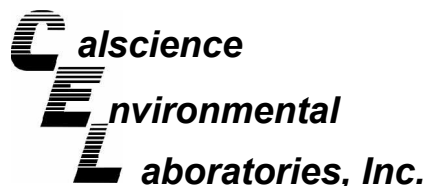
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 10-01-0860
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,916	Aqueous	GC/MS S	01/14/10	01/15/10	100114L02		
<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	101	107	80-122	73-129	6	0-20	
Carbon Tetrachloride	93	102	68-140	56-152	9	0-20	
Chlorobenzene	97	103	80-120	73-127	6	0-20	
1,2-Dibromoethane	104	105	80-121	73-128	1	0-20	
1,2-Dichlorobenzene	94	95	80-120	73-127	1	0-20	
1,1-Dichloroethene	94	104	72-132	62-142	10	0-25	
Ethylbenzene	109	116	80-126	72-134	6	0-20	
Toluene	100	104	80-121	73-128	4	0-20	
Trichloroethene	100	104	80-123	73-130	4	0-20	
Vinyl Chloride	94	107	67-133	56-144	12	0-20	
Methyl-t-Butyl Ether (MTBE)	96	95	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	99	96	75-123	67-131	4	0-20	
Diisopropyl Ether (DIPE)	103	105	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	101	101	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	106	103	80-123	73-130	3	0-20	
Ethanol	103	112	61-139	48-152	9	0-27	

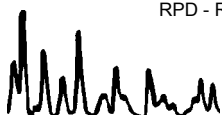
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

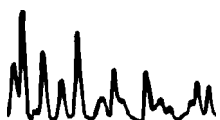
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-01-0860

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 1/12/10

Page 1 of 1

LABORATORY CLIENT: <u>Parsons</u>		CLIENT PROJECT NAME / NUMBER: <u>DFSP NORWALK GWM/746442</u>		P.O. NO.:	
ADDRESS: <u>100 W. WALNUT ST</u>		PROJECT CONTACT: <u>MARY LUCAS</u>		LAB USE ONLY <u>60</u>	
CITY: <u>Pasadena</u> STATE: <u>Ca</u> ZIP: <u>91124</u>		SAMPLER(S): (PRINT) <u>M. Housee</u> COELT LOG CODE: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		COOLER RECEIPT <u>60</u>	
E-MAIL: <u>MARY.LUCAS@PARSONS.COM</u>		TEMP= _____ °C			

TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF

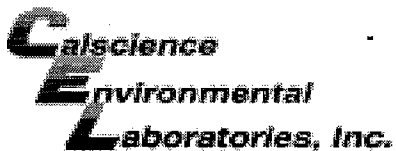
SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g) EPA 8015	TPH (g) or (C6-C36) or (C6-C44)	TPH (g) EPA 8015	BTEX / MTBE (8260B) or ()	VOCs (8260B) ^{include STX, MTBE, TBA}	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	
			DATE	TIME																		
1	TBZ		1/12/10	0700	w	2					X											
2	GMW-62		1/12/10	0814	w	5			X		X											
3	GMW-63		1/12/10	0738	w	5			X		X											
4	GMW-64		1/12/10	0937	w	5			X		X											
5	GMW-65		1/12/10	0849	w	5			X		X											
6	MW-14		1/12/10	1227	w	8	X	X			X											
7	GW-13		1/12/10	1307	w	10	X	X			X											
8	GW-2		1/12/10	1409	w	10	X	X			X											

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u> CEL	Date: <u>1/13/10</u>	Time: <u>12:00</u>
Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u> CEL	Date: <u>1/13/10</u>	Time: <u>12:35</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our TICs are printed on the reverse side of the Green and Yellow copies respectively.



WORK ORDER #: 10-01-0841

60

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON

DATE: 01/13/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 1.3°C + 0.5°C (CF) = 1.8°C
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: AM

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A Initial: AM
Sample No (Not Intact) Not Present Initial: RN

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples... Yes No N/A
COC document(s) received complete...
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Correct containers and volume for analyses requested...
Analyses received within holding time...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores TerraCores
Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: 100105B Checked by: RN
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WSC
Preservative: h: HCL n: HNO3 na2:Na2S2O3 Na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: RN

WORK ORDER #: 10-01-0860

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- Samples NOT RECEIVED but listed on COC
- Samples received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s)/preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample labels do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Containers
 - Analysis
- Sample containers compromised – Note in comments
 - Leaking
 - Broken
 - Without Labels
- Air sample containers compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

Comments:

(-7), (-8): Received 2x 1AGB_{nan} but analysis not requested.

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: *RN* 01/13/10

Ranjit Clarke

From: Lucas, Mary [Mary.Lucas@parsons.com]
Sent: Wednesday, January 13, 2010 7:06 PM
To: Ranjit Clarke
Subject: RE: DFSP NORWALK GWM / 746442 (01/12/10)

Yes.
Thank you.

From: Ranjit Clarke [mailto:RClarke@calscience.com]
Sent: Wed 1/13/2010 4:31 PM
To: Lucas, Mary; Zicker, Cindy
Subject: DFSP NORWALK GWM / 746442 (01/12/10)

Mary/Cindy,

We received bottles for SVOCs analysis for samples "GW-13" and "GW-2", but there was no request on the COC. Do you want us to analyze these samples for SVOCs by EPA 8270C (we do not do this by EPA 8270D)?

Please let me know.

Thanks,

Ranjit Clarke
Project Manager
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x222
Fax: 714-894-7501

The difference is service

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 03/16/10

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	TB-1				
Lab ID :	GMT10031645-01A	TPH-P (GRO)	ND	0.050 mg/L	03/17/10
Date Sampled	03/15/10 07:00	Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	03/17/10
		Surr: Toluene-d8	98	(70-130) %REC	03/17/10
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/17/10
Client ID :	GMW-0-1				
Lab ID :	GMT10031645-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22
Date Sampled	03/15/10 10:49	Surr: Nonane	91	(57-147) %REC	03/17/10 09:22
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	03/17/10
		Surr: Toluene-d8	100	(70-130) %REC	03/17/10
		Surr: 4-Bromofluorobenzene	87	(70-130) %REC	03/17/10
Client ID :	EXP-3				
Lab ID :	GMT10031645-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22
Date Sampled	03/15/10 09:30	Surr: Nonane	90	(57-147) %REC	03/17/10 09:22
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10
		Surr: 1,2-Dichloroethane-d4	120	(70-130) %REC	03/17/10
		Surr: Toluene-d8	100	(70-130) %REC	03/17/10
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/17/10
Client ID :	WCW-13				
Lab ID :	GMT10031645-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22
Date Sampled	03/15/10 10:15	Surr: Nonane	97	(57-147) %REC	03/17/10 09:22
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	03/17/10
		Surr: Toluene-d8	99	(70-130) %REC	03/17/10
		Surr: 4-Bromofluorobenzene	87	(70-130) %REC	03/17/10
Client ID :	EXP-2				
Lab ID :	GMT10031645-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22
Date Sampled	03/15/10 08:57	Surr: Nonane	80	(57-147) %REC	03/17/10 09:22
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	03/17/10
		Surr: Toluene-d8	100	(70-130) %REC	03/17/10
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/17/10
Client ID :	EXP-1				
Lab ID :	GMT10031645-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22
Date Sampled	03/15/10 08:19	Surr: Nonane	85	(57-147) %REC	03/17/10 09:22
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	03/17/10
		Surr: Toluene-d8	101	(70-130) %REC	03/17/10
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/17/10



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Client ID :	GMW-0-19					
Lab ID :	GMT10031645-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22	03/17/10
Date Sampled	03/15/10 13:07	Surr: Nonane	87	(57-147) %REC	03/17/10 09:22	03/17/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	120	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	100	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	03/17/10	03/17/10
Client ID :	EXP-5					
Lab ID :	GMT10031645-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22	03/17/10
Date Sampled	03/15/10 12:08	Surr: Nonane	89	(57-147) %REC	03/17/10 09:22	03/17/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	100	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	03/17/10	03/17/10
Client ID :	GMW-0-3					
Lab ID :	GMT10031645-09A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22	03/17/10
Date Sampled	03/15/10 11:27	Surr: Nonane	86	(57-147) %REC	03/17/10 09:22	03/17/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	99	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/17/10	03/17/10
Client ID :	WCW-3					
Lab ID :	GMT10031645-10A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22	03/17/10
Date Sampled	03/15/10 13:46	Surr: Nonane	87	(57-147) %REC	03/17/10 09:22	03/17/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	99	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	87	(70-130) %REC	03/17/10	03/17/10
Client ID :	GMW-38					
Lab ID :	GMT10031645-11A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22	03/18/10
Date Sampled	03/15/10 14:20	Surr: Nonane	88	(57-147) %REC	03/17/10 09:22	03/18/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	122	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	98	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/17/10	03/17/10
Client ID :	WCW-7					
Lab ID :	GMT10031645-12A	TPH-E (Fuel Product)	0.13	**	0.10 mg/L	03/17/10 09:22
Date Sampled	03/15/10 14:54	Surr: Nonane	97	(57-147) %REC	03/17/10 09:22	03/17/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	116	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	100	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	85	(70-130) %REC	03/17/10	03/17/10
Client ID :	EB-1					
Lab ID :	GMT10031645-13A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 09:22	03/17/10
Date Sampled	03/15/10 15:00	Surr: Nonane	74	(57-147) %REC	03/17/10 09:22	03/17/10
		TPH-P (GRO)	ND	0.050 mg/L	03/17/10	03/17/10
		Surr: 1,2-Dichloroethane-d4	118	(70-130) %REC	03/17/10	03/17/10
		Surr: Toluene-d8	96	(70-130) %REC	03/17/10	03/17/10
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/17/10	03/17/10



Alpha Analytical, Inc.

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**Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (310) 803-7761 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

PS

3/24/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-01A
Client I.D. Number: TB-1

Sampled: 03/15/10 07:00
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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PS

3/24/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-02A
Client I.D. Number: GMW-0-1

Sampled: 03/15/10 10:49
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	87	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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PS
3/24/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-03A
Client I.D. Number: EXP-3

Sampled: 03/15/10 09:30
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	1.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	120	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	86	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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RS

3/24/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-04A
Client I.D. Number: WCW-13

Sampled: 03/15/10 10:15
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	87	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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[Signature]

3/24/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-05A
Client I.D. Number: EXP-2

Sampled: 03/15/10 08:57
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	86	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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3/24/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-06A
Client I.D. Number: EXP-1

Sampled: 03/15/10 08:19
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	86	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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3/24/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-07A
Client I.D. Number: GMW-0-19

Sampled: 03/15/10 13:07
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	120	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	88	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]
3/24/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-08A
Client I.D. Number: EXP-5

Sampled: 03/15/10 12:08
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	88	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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PS

3/24/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-09A
Client I.D. Number: GMW-0-3

Sampled: 03/15/10 11:27
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	89	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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3/24/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-10A
Client I.D. Number: WCW-3

Sampled: 03/15/10 13:46
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	3.5	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	87	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (310) 803-7761 / info@alpha-analytical.com

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3/24/10

Report Date



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ANALYTICAL REPORT

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Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-11A
Client I.D. Number: GMW-38

Sampled: 03/15/10 14:20
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	1.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	20 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	122	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	89	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-12A
Client I.D. Number: WCW-7

Sampled: 03/15/10 14:54
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.8	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	4.0	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	30	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	116	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	85	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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3/24/10

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031645-13A
Client I.D. Number: EB-1

Sampled: 03/15/10 15:00
Received: 03/16/10
Extracted: 03/17/10
Analyzed: 03/17/10

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	118	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	96	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

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3/24/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: GMT10031645

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
10031645-01A	TB-1	Aqueous	2
10031645-02A	GMW-0-1	Aqueous	2
10031645-03A	EXP-3	Aqueous	2
10031645-04A	WCW-13	Aqueous	2
10031645-05A	EXP-2	Aqueous	2
10031645-06A	EXP-1	Aqueous	2
10031645-07A	GMW-0-19	Aqueous	2
10031645-08A	EXP-5	Aqueous	2
10031645-09A	GMW-0-3	Aqueous	2
10031645-10A	WCW-3	Aqueous	2
10031645-11A	GMW-38	Aqueous	2
10031645-12A	WCW-7	Aqueous	2
10031645-13A	EB-1	Aqueous	2

3/24/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
23-Mar-10

QC Summary Report

Work Order:
10031645

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B / E**

File ID: **2A03171005.D**

Batch ID: **23759**

Analysis Date: **03/17/2010 11:38**

Sample ID: **MBLK-23759**

Units : **mg/L**

Run ID: **FID_2_100317B**

Prep Date: **03/17/2010 09:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.132		0.15		88	57	147			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B / E**

File ID: **2A03171007.D**

Batch ID: **23759**

Analysis Date: **03/17/2010 12:31**

Sample ID: **LCS-23759**

Units : **mg/L**

Run ID: **FID_2_100317B**

Prep Date: **03/17/2010 09:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5		99	67	130			
Surr: Nonane	0.126		0.15		84	57	147			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B / E**

File ID: **2A03171047.D**

Batch ID: **23759**

Analysis Date: **03/18/2010 12:18**

Sample ID: **10031629-06AMS**

Units : **mg/L**

Run ID: **FID_2_100317B**

Prep Date: **03/17/2010 09:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	11.5	0.05	2.5	9.691	74	49	150			
Surr: Nonane	0.202		0.15		135	57	147			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B / E**

File ID: **2A03171048.D**

Batch ID: **23759**

Analysis Date: **03/18/2010 12:44**

Sample ID: **10031629-06AMSD**

Units : **mg/L**

Run ID: **FID_2_100317B**

Prep Date: **03/17/2010 09:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	11.8	0.05	2.5	9.691	86	49	150	11.54	2.6(38)	
Surr: Nonane	0.222		0.15		148	57	147			S55

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
23-Mar-10

QC Summary Report

Work Order:
10031645

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: **10031708.D**

Batch ID: **MS15W0317B**

Analysis Date: **03/17/2010 10:29**

Sample ID: **MBLK MS15W0317B**

Units : **mg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 10:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0112		0.01		112	70	130			
Surr: Toluene-d8	0.00995		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00904		0.01		90	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: **10031703.D**

Batch ID: **MS15W0317B**

Analysis Date: **03/17/2010 08:29**

Sample ID: **GLCS MS15W0317B**

Units : **mg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 08:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.391	0.05	0.4		98	70	130			
Surr: 1,2-Dichloroethane-d4	0.011		0.01		110	70	130			
Surr: Toluene-d8	0.00971		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00927		0.01		93	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: **10031711.D**

Batch ID: **MS15W0317B**

Analysis Date: **03/17/2010 11:36**

Sample ID: **10031645-02AGS**

Units : **mg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 11:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.95	0.25	2	0	97	58	135			
Surr: 1,2-Dichloroethane-d4	0.0578		0.05		116	70	130			
Surr: Toluene-d8	0.047		0.05		94	70	130			
Surr: 4-Bromofluorobenzene	0.046		0.05		92	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: **10031712.D**

Batch ID: **MS15W0317B**

Analysis Date: **03/17/2010 11:58**

Sample ID: **10031645-02AGSD**

Units : **mg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 11:58**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.09	0.25	2	0	104	58	135	1.946	7.0(20)	
Surr: 1,2-Dichloroethane-d4	0.0586		0.05		117	70	130			
Surr: Toluene-d8	0.047		0.05		94	70	130			
Surr: 4-Bromofluorobenzene	0.0448		0.05		90	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:

23-Mar-10

QC Summary Report

Work Order:

10031645

n-Butylbenzene	ND	1								
1,2-Dibromo-3-chloropropane (DBCP)	ND	5								
1,2,4-Trichlorobenzene	ND	2								
Naphthalene	ND	10								
1,2,3-Trichlorobenzene	ND	2								
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.95		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.04		10		90	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **10031705.D**

Batch ID: **MS15W0317A**

Analysis Date: **03/17/2010 09:13**

Sample ID: **LCS MS15W0317A**

Units : **µg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 09:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	11.1	1	10		111	80	120			
Methyl tert-butyl ether (MTBE)	12.8	0.5	10		128	62	136			
Benzene	10.5	0.5	10		105	70	130			
Trichloroethene	11.5	1	10		115	70	130			
Toluene	9.52	0.5	10		95	80	120			
Chlorobenzene	10.3	1	10		103	70	130			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	10.9	0.5	10		109	70	130			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	11.1		10		111	70	130			
Surr: Toluene-d8	9.53		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.56		10		96	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **10031709.D**

Batch ID: **MS15W0317A**

Analysis Date: **03/17/2010 10:51**

Sample ID: **10031645-02AMS**

Units : **µg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 10:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	54.8	2.5	50	0	110	60	130			
Methyl tert-butyl ether (MTBE)	63.3	1.3	50	0	127	56	141			
Benzene	51.6	1.3	50	0	103	67	130			
Trichloroethene	55.2	2.5	50	0	110	69	130			
Toluene	46.2	1.3	50	0	92	66	130			
Chlorobenzene	49.2	2.5	50	0	98	70	130			
Ethylbenzene	49	1.3	50	0	98	68	130			
m,p-Xylene	52.3	1.3	50	0	105	64	130			
o-Xylene	51.8	1.3	50	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	57.2		50		114	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	47.3		50		95	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **10031710.D**

Batch ID: **MS15W0317A**

Analysis Date: **03/17/2010 11:14**

Sample ID: **10031645-02AMSD**

Units : **µg/L**

Run ID: **MSD_15_100317A**

Prep Date: **03/17/2010 11:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	56.3	2.5	50	0	113	60	130	54.83	2.6(20)	
Methyl tert-butyl ether (MTBE)	65.7	1.3	50	0	131	56	141	63.27	3.7(20)	
Benzene	51.4	1.3	50	0	103	67	130	51.57	0.4(20)	
Trichloroethene	55.6	2.5	50	0	111	69	130	55.2	0.7(20)	
Toluene	45.3	1.3	50	0	91	66	130	46.16	1.9(20)	
Chlorobenzene	48.6	2.5	50	0	97	70	130	49.19	1.3(20)	
Ethylbenzene	48.3	1.3	50	0	97	68	130	49.04	1.5(20)	
m,p-Xylene	51.4	1.3	50	0	103	64	130	52.34	1.9(20)	
o-Xylene	51.5	1.3	50	0	103	70	130	51.78	0.6(20)	
Surr: 1,2-Dichloroethane-d4	57.6		50		115	70	130			
Surr: Toluene-d8	47.4		50		95	70	130			
Surr: 4-Bromofluorobenzene	47.3		50		95	70	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:

23-Mar-10

QC Summary Report

Work Order:

10031645

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA AMENDED Page: 1 of 2

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : GMTC10031645
Report Due By : 5:00 PM On : 25-Mar-10

Client:
 AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes

Sampled by : T. Rhymes

PO :
 Client's COC # : none Job : KMEP Norwalk

Cooler Temp Samples Received Date Printed
 4 °C 16-Mar-10 16-Mar-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPHE_W	TPHP_W	VOC_W					
GMT10031645-01A	TB-1	AQ 03/15/10 07:00	2 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					Reno TBs (2), 1/18/10
GMT10031645-02A	GMW-0-1	AQ 03/15/10 10:49	6 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-03A	EXP-3	AQ 03/15/10 09:30	6 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-04A	WCW-13	AQ 03/15/10 10:15	5 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					1 voa rec'd broken
GMT10031645-05A	EXP-2	AQ 03/15/10 08:57	6 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-06A	EXP-1	AQ 03/15/10 08:19	6 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-07A	GMW-0-19	AQ 03/15/10 13:07	6 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-08A	EXP-5	AQ 03/15/10 12:08	6 0 7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 3/16/10 to remove TPH/E from sample -01A and remove Se from sample -13A. : per email from Thandar. TD.

Signature	Print Name	Company	Date/Time
	Taree Dickinson	Alpha Analytical, Inc.	3/16/10 1255

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED
CA Page 2 of 2

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : GMTTC10031645
Report Due By : 5:00 PM On : 25-Mar-10

Client:
AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200

Newport Beach, CA 92663-3627

Report Attention	Phone Number	EMail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes
Sampled by : T. Rhymes

PO :
Client's COC # : none Job : KMEP Norwalk

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
4 °C	16-Mar-10	16-Mar-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date Alpha Sub TAT	Requested Tests						Sample Remarks								
				TPHE_W	TPH/P_W	VOC_W												
GMT10031645-09A	GMW-0-3	AQ	03/15/10 11:27	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate									
GMT10031645-10A	WCW-3	AQ	03/15/10 13:46	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate									
GMT10031645-11A	GMW-38	AQ	03/15/10 14:20	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate									
GMT10031645-12A	WCW-7	AQ	03/15/10 14:54	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate									
GMT10031645-13A	EB-1	AQ	03/15/10 15:00	5	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate									2 voas rec'd broken

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 3/16/10 to remove TPH/E from sample -01A and remove Se from sample -13A. : per email from Thandar. TD.

Logged in by:		Signature -		Print Name	Alpha Analytical, Inc.	Date/Time	3/16/10 1255
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NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : GMTC10031645
Report Due By : 5:00 PM On : 25-Mar-10

Client:
 AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

 Newport Beach, CA 92663-3627

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes
 EDD Required : Yes

Sampled by : T. Rhymes


PO :
 Client's COC # : none Job : KMEP Norwalk

Cooler Temp Samples Received Date Printed
 4 °C 16-Mar-10 16-Mar-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				METALS_A Q	TPHE_W	TPH/P_W	VOC_W					
GMT10031645-01A	TB-1	AQ 03/15/10 07:00	2 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					Reno TBs (2), 1/18/10
GMT10031645-02A	GMW-0-1	AQ 03/15/10 10:49	6 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-03A	EXP-3	AQ 03/15/10 09:30	6 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-04A	WCW-13	AQ 03/15/10 10:15	5 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					1 voa rec'd broken
GMT10031645-05A	EXP-2	AQ 03/15/10 08:57	6 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-06A	EXP-1	AQ 03/15/10 08:19	6 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-07A	GMW-0-19	AQ 03/15/10 13:07	6 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					
GMT10031645-08A	EXP-5	AQ 03/15/10 12:08	6 0 7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate					

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Signature	Print Name	Company	Date/Time
	Tara Jackson	Alpha Analytical, Inc.	3/16/10 12:00

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : GMTC10031645

Report Due By : 5:00 PM On : 25-Mar-10

Client:
 AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

 Newport Beach, CA 92663-3627

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : T. Rhymes

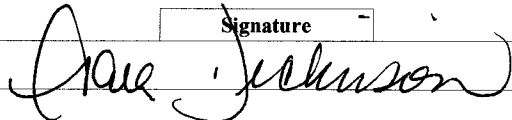
PO :
 Client's COC # : none Job : KMEP Norwalk

Cooler Temp	Samples Received	Date Printed
4 °C	16-Mar-10	16-Mar-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
				Alpha	Sub	TAT	METALS_A Q	TPHE_W	TPH/P_W	VOC_W	
GMT10031645-09A	GMW-0-3	AQ	03/15/10 11:27	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031645-10A	WCW-3	AQ	03/15/10 13:46	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031645-11A	GMW-38	AQ	03/15/10 14:20	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031645-12A	WCW-7	AQ	03/15/10 14:54	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031645-13A	EB-1	AQ	03/15/10 15:00	5	0	7	Se	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	2 voas rec'd broken

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Tare Jackson	Alpha Analytical, Inc.	3/16/10 12:00

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shioh-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

GMT10031645

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	Selenium By EPA 6020					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type											
TS-1	3/15/10	0700	AQ	2	HCL	VQA	X	X									-01
GMW-0-1		1049		6			X	X									-02
EXP-3		0930		6			X	X									-03
WCW-13		1015		6			X	X									-04
EXP-2		0957		6			X	X									-05
EXP-1		0819		6			X	X									-06
GMW-0-19		1307		6			X	X									-07
EXP-5		1208		6			X	X									-08
GMW-0-3		1127		6			X	X									-09
WCW-3	7	1346	7	6			X	X									-10

SAMPLING COMPLETED DATE 3-15-10 TIME 1500 SAMPLING PERFORMED BY T. RHYMES RESULTS NEEDED NO LATER THAN Standard

RELEASED BY TIME 1330 RECEIVED BY DATE 3/15/10 TIME 1330

RELEASED BY TIME 1700 RECEIVED BY DATE 3/15/10 TIME 1700

RELEASED BY TIME 1900 RECEIVED BY DATE 3/16/10 TIME 11:59

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BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shioh-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

GMT10031645

CHAIN OF CUSTODY

CLIENT: Kinder Morgan

SITE: DFSP Norwalk
 15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	Selenium By EPA 6020					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation Type											
GMW-39	3/15/10	1420	AQ	6	HCL VOA	X	X									-11
WCW-7	↓	1454	↓	6	HCL VOA	X	X									-12
EB-1	↓	1500	↓	7	VOA/ POLY HCL/ HNO3	X	X	X								-13

SAMPLING COMPLETED DATE 3/15/10 TIME 1500 SAMPLING PERFORMED BY T. RHYMES RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* TIME 1330 RECEIVED BY *[Signature]* DATE 3/15/10 TIME 1330

RELEASED BY *[Signature]* TIME 1700 RECEIVED BY *[Signature]* DATE 3/15/10 TIME 1700

RELEASED BY *[Signature]* TIME 1700 RECEIVED BY *[Signature]* DATE 3/16/10 TIME 11:57

SHIPPED VIA TIME SENT COOLER #



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 03/17/10

Job: KMEP DFSP Norwalk

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: GMW-36				
Lab ID : GMT10031702-01A Selenium (Se)	ND	0.0050 mg/L	03/17/10 11:08	03/17/10
Date Sampled 03/16/10 13:33				
Client ID: GMW-0-15				
Lab ID : GMT10031702-04A Selenium (Se)	ND	0.0050 mg/L	03/17/10 11:08	03/17/10
Date Sampled 03/16/10 11:07				
Client ID: GMW-0-18				
Lab ID : GMT10031702-06A Selenium (Se)	0.0083	0.0050 mg/L	03/17/10 11:08	03/17/10
Date Sampled 03/16/10 09:46				
Client ID: EB-2				
Lab ID : GMT10031702-14A Selenium (Se)	ND	0.0050 mg/L	03/17/10 11:08	03/17/10
Date Sampled 03/16/10 14:10				

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (310) 803-7761 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

3/25/10

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 03/17/10

Job: KMEP DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID :	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
GMW-36					
Lab ID : GMT10031702-01A	TPH-E (Fuel Product)	22 *	1.0 mg/L	03/17/10 12:39	03/18/10
Date Sampled 03/16/10 13:33	Surr: Nonane	0 S50	(57-147) %REC	03/17/10 12:39	03/18/10
	TPH-P (GRO)	8.0	1.0 mg/L	03/22/10	03/22/10
	Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	03/22/10	03/22/10
	Surr: Toluene-d8	93	(70-130) %REC	03/22/10	03/22/10
	Surr: 4-Bromofluorobenzene	101	(70-130) %REC	03/22/10	03/22/10
GMW-0-2					
Lab ID : GMT10031702-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 12:39	03/17/10
Date Sampled 03/16/10 07:39	Surr: Nonane	83	(57-147) %REC	03/17/10 12:39	03/17/10
	TPH-P (GRO)	ND	0.050 mg/L	03/22/10	03/22/10
	Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	03/22/10	03/22/10
	Surr: Toluene-d8	98	(70-130) %REC	03/22/10	03/22/10
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	03/22/10	03/22/10
GMW-0-14					
Lab ID : GMT10031702-03A	TPH-E (Fuel Product)	24 *	0.50 mg/L	03/17/10 12:39	03/18/10
Date Sampled 03/16/10 12:45	Surr: Nonane	0 S50	(57-147) %REC	03/17/10 12:39	03/18/10
	TPH-P (GRO)	57	20 mg/L	03/22/10	03/22/10
	Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	03/22/10	03/22/10
	Surr: Toluene-d8	98	(70-130) %REC	03/22/10	03/22/10
	Surr: 4-Bromofluorobenzene	99	(70-130) %REC	03/22/10	03/22/10
GMW-0-15					
Lab ID : GMT10031702-04A	TPH-E (Fuel Product)	8.9 *	0.10 mg/L	03/17/10 12:39	03/17/10
Date Sampled 03/16/10 11:07	Surr: Nonane	88	(57-147) %REC	03/17/10 12:39	03/17/10
	TPH-P (GRO)	0.53	0.050 mg/L	03/22/10	03/22/10
	Surr: 1,2-Dichloroethane-d4	114	(70-130) %REC	03/22/10	03/22/10
	Surr: Toluene-d8	94	(70-130) %REC	03/22/10	03/22/10
	Surr: 4-Bromofluorobenzene	102	(70-130) %REC	03/22/10	03/22/10
GMW-0-16					
Lab ID : GMT10031702-05A	TPH-E (Fuel Product)	0.14	0.10 mg/L	03/17/10 12:39	03/17/10
Date Sampled 03/16/10 08:20	Surr: Nonane	81	(57-147) %REC	03/17/10 12:39	03/17/10
	TPH-P (GRO)	ND	0.050 mg/L	03/23/10	03/23/10
	Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	03/23/10	03/23/10
	Surr: Toluene-d8	98	(70-130) %REC	03/23/10	03/23/10
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	03/23/10	03/23/10
GMW-0-18					
Lab ID : GMT10031702-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	03/17/10 12:39	03/17/10
Date Sampled 03/16/10 09:46	Surr: Nonane	83	(57-147) %REC	03/17/10 12:39	03/17/10
	TPH-P (GRO)	ND	0.050 mg/L	03/22/10	03/22/10
	Surr: 1,2-Dichloroethane-d4	114	(70-130) %REC	03/22/10	03/22/10
	Surr: Toluene-d8	98	(70-130) %REC	03/22/10	03/22/10
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	03/22/10	03/22/10



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Client ID : GMW-39						
Lab ID :	GMT10031702-07A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 08:56	Surr: Nonane	77		(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	ND		0.050 mg/L	03/22/10 03/22/10
		Surr: 1,2-Dichloroethane-d4	112		(70-130) %REC	03/22/10 03/22/10
		Surr: Toluene-d8	98		(70-130) %REC	03/22/10 03/22/10
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	03/22/10 03/22/10
Client ID : MW-SF-1						
Lab ID :	GMT10031702-08A	TPH-E (Fuel Product)	12	*	0.10 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 10:25	Surr: Nonane	96		(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	13		5.0 mg/L	03/22/10 03/22/10
		Surr: 1,2-Dichloroethane-d4	111		(70-130) %REC	03/22/10 03/22/10
		Surr: Toluene-d8	98		(70-130) %REC	03/22/10 03/22/10
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	03/22/10 03/22/10
Client ID : PZ-5						
Lab ID :	GMT10031702-09A	TPH-E (Fuel Product)	0.89	**	0.10 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 11:43	Surr: Nonane	88		(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	1.7		0.40 mg/L	03/23/10 03/23/10
		Surr: 1,2-Dichloroethane-d4	111		(70-130) %REC	03/23/10 03/23/10
		Surr: Toluene-d8	99		(70-130) %REC	03/23/10 03/23/10
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	03/23/10 03/23/10
Client ID : DUP-1						
Lab ID :	GMT10031702-11A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 00:00	Surr: Nonane	83		(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	ND		0.050 mg/L	03/22/10 03/22/10
		Surr: 1,2-Dichloroethane-d4	112		(70-130) %REC	03/22/10 03/22/10
		Surr: Toluene-d8	98		(70-130) %REC	03/22/10 03/22/10
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	03/22/10 03/22/10
Client ID : DUP-2						
Lab ID :	GMT10031702-12A	TPH-E (Fuel Product)	0.85	**	0.10 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 00:00	Surr: Nonane	84		(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	1.7		0.40 mg/L	03/23/10 03/23/10
		Surr: 1,2-Dichloroethane-d4	110		(70-130) %REC	03/23/10 03/23/10
		Surr: Toluene-d8	98		(70-130) %REC	03/23/10 03/23/10
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	03/23/10 03/23/10
Client ID : DUP-3						
Lab ID :	GMT10031702-13A	TPH-E (Fuel Product)	20	*	0.50 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 00:00	Surr: Nonane	0	S50	(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	50		20 mg/L	03/24/10 03/24/10
		Surr: 1,2-Dichloroethane-d4	113		(70-130) %REC	03/24/10 03/24/10
		Surr: Toluene-d8	98		(70-130) %REC	03/24/10 03/24/10
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	03/24/10 03/24/10
Client ID : EB-2						
Lab ID :	GMT10031702-14A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/17/10 12:39 03/18/10
Date Sampled	03/16/10 14:10	Surr: Nonane	81		(57-147) %REC	03/17/10 12:39 03/18/10
		TPH-P (GRO)	ND		0.050 mg/L	03/22/10 03/22/10
		Surr: 1,2-Dichloroethane-d4	111		(70-130) %REC	03/22/10 03/22/10
		Surr: Toluene-d8	98		(70-130) %REC	03/22/10 03/22/10
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	03/22/10 03/22/10



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**Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

*Note: Reported TPH-E (Fuel Product) is composed primarily of diesel range hydrocarbons.

Gasoline Range Organics (GRO) C4-C13

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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RJ

3/25/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-01A
Client I.D. Number: GMW-36

Sampled: 03/16/10 13:33
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	140	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	420	5.0 µg/L
4 Chloroethane	ND	10 µg/L	48 Bromoform	ND	10 µg/L
5 Bromomethane	ND	40 µg/L	49 Styrene	ND	10 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	280	5.0 µg/L
7 Acetone	ND	200 µg/L	51 1,1,2,2-Tetrachloroethane	ND	10 µg/L
8 1,1-Dichloroethene	ND	10 µg/L	52 1,2,3-Trichloropropane	ND	40 µg/L
9 Tertiary Butyl Alcohol (TBA)	690	100 µg/L	53 Isopropylbenzene	ND	10 µg/L
10 Dichloromethane	ND	40 µg/L	54 Bromobenzene	ND	10 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	10 µg/L
12 Carbon disulfide	ND	50 µg/L	56 4-Chlorotoluene	ND	10 µg/L
13 trans-1,2-Dichloroethene	ND	10 µg/L	57 2-Chlorotoluene	ND	10 µg/L
14 Methyl tert-butyl ether (MTBE)	16	5.0 µg/L	58 1,3,5-Trimethylbenzene	61	10 µg/L
15 1,1-Dichloroethane	ND	10 µg/L	59 tert-Butylbenzene	ND	10 µg/L
16 Vinyl acetate	ND	1,000 µg/L	60 1,2,4-Trimethylbenzene	100	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 sec-Butylbenzene	ND	10 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 µg/L	62 1,3-Dichlorobenzene	ND	10 µg/L
19 cis-1,2-Dichloroethene	ND	10 µg/L	63 1,4-Dichlorobenzene	ND	10 µg/L
20 Bromochloromethane	ND	10 µg/L	64 4-Isopropyltoluene	ND	10 µg/L
21 Chloroform	ND	10 µg/L	65 1,2-Dichlorobenzene	ND	10 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	66 n-Butylbenzene	ND	10 µg/L
23 2,2-Dichloropropane	ND	10 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/L
24 1,2-Dichloroethane	ND	10 µg/L	68 1,2,4-Trichlorobenzene	ND	40 µg/L
25 1,1,1-Trichloroethane	ND	10 µg/L	69 Naphthalene	74	40 µg/L
26 1,1-Dichloropropene	ND	10 µg/L	70 1,2,3-Trichlorobenzene	ND	40 µg/L
27 Carbon tetrachloride	ND	10 µg/L	71 Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC
28 Benzene	830	5.0 µg/L	72 Surr: Toluene-d8	93	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
30 Dibromomethane	ND	10 µg/L			
31 1,2-Dichloropropane	ND	10 µg/L			
32 Trichloroethene	ND	10 µg/L			
33 Bromodichloromethane	ND	10 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	50 µg/L			
35 cis-1,3-Dichloropropene	ND	10 µg/L			
36 trans-1,3-Dichloropropene	ND	10 µg/L			
37 1,1,2-Trichloroethane	ND	10 µg/L			
38 Toluene	1,100	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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3/25/10

Report Date

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ANALYTICAL REPORT

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Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-02A
Client I.D. Number: GMW-0-2

Sampled: 03/16/10 07:39
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-03A
Client I.D. Number: GMW-0-14

Sampled: 03/16/10 12:45
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	1,700	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	2,600	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Styrene	ND	200 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 o-Xylene	2,100	100 µg/L
7 Acetone	ND	4,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	200 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,2,3-Trichloropropane	ND	800 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 Isopropylbenzene	ND	200 µg/L
10 Dichloromethane	ND	800 µg/L	54 Bromobenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 n-Propylbenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 4-Chlorotoluene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 2-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 1,3,5-Trimethylbenzene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 tert-Butylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 1,2,4-Trimethylbenzene	710	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 sec-Butylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	310	200 µg/L	62 1,3-Dichlorobenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,4-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 4-Isopropyltoluene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 1,2-Dichlorobenzene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 n-Butylbenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2,4-Trichlorobenzene	ND	800 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 Naphthalene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 1,2,3-Trichlorobenzene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC
28 Benzene	14,000	100 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	200 µg/L			
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	6,200	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-04A
Client I.D. Number: GMW-0-15

Sampled: 03/16/10 11:07
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	0.64	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	2.7	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	400	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	114	(70-130) %REC
28 Benzene	10	0.50 µg/L	72 Surr: Toluene-d8	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	1.9	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	1.1	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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3/25/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shio-whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-05A
Client I.D. Number: GMW-0-16

Sampled: 03/16/10 08:20
Received: 03/17/10
Extracted: 03/23/10
Analyzed: 03/23/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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3/25/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-06A
Client I.D. Number: GMW-0-18

Sampled: 03/16/10 09:46
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	0.81	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	0.96	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	550	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	4.5	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	1.0	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	114	(70-130) %REC
28 Benzene	0.60	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	1.3	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (310) 803-7761 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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PS
3/25/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-07A
Client I.D. Number: GMW-39

Sampled: 03/16/10 08:56
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	130	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	5.0 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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[Signature]
3/25/10

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-08A
Client I.D. Number: MW-SF-1

Sampled: 03/16/10 10:25
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	120	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	26	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Styrene	ND	50 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 o-Xylene	29	25 µg/L
7 Acetone	ND	1,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	50 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,2,3-Trichloropropane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 Isopropylbenzene	ND	50 µg/L
10 Dichloromethane	ND	200 µg/L	54 Bromobenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 n-Propylbenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 4-Chlorotoluene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 2-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	650	25 µg/L	58 1,3,5-Trimethylbenzene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 tert-Butylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 1,2,4-Trimethylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 sec-Butylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 1,3-Dichlorobenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,4-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 4-Isopropyltoluene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 1,2-Dichlorobenzene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 n-Butylbenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2,4-Trichlorobenzene	ND	200 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 Naphthalene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 1,2,3-Trichlorobenzene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC
28 Benzene	5,900	25 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	50 µg/L			
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	56	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

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RSJ

3/25/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-09A
Client I.D. Number: PZ-5

Sampled: 03/16/10 11:43
Received: 03/17/10
Extracted: 03/23/10
Analyzed: 03/23/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	4.0 µg/L	45 Chlorobenzene	ND	4.0 µg/L
2 Chloromethane	ND	16 µg/L	46 Ethylbenzene	33	2.0 µg/L
3 Vinyl chloride	ND	4.0 µg/L	47 m,p-Xylene	ND	2.0 µg/L
4 Chloroethane	ND	4.0 µg/L	48 Bromoform	ND	4.0 µg/L
5 Bromomethane	ND	16 µg/L	49 Styrene	ND	4.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	9.4	2.0 µg/L
7 Acetone	ND	80 µg/L	51 1,1,2,2-Tetrachloroethane	ND	4.0 µg/L
8 1,1-Dichloroethane	ND	4.0 µg/L	52 1,2,3-Trichloropropane	ND	16 µg/L
9 Tertiary Butyl Alcohol (TBA)	58,000	400 µg/L	53 Isopropylbenzene	ND	4.0 µg/L
10 Dichloromethane	ND	16 µg/L	54 Bromobenzene	ND	4.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	4.0 µg/L
12 Carbon disulfide	ND	20 µg/L	56 4-Chlorotoluene	ND	4.0 µg/L
13 trans-1,2-Dichloroethane	ND	4.0 µg/L	57 2-Chlorotoluene	ND	4.0 µg/L
14 Methyl tert-butyl ether (MTBE)	350	2.0 µg/L	58 1,3,5-Trimethylbenzene	5.6	4.0 µg/L
15 1,1-Dichloroethane	ND	4.0 µg/L	59 tert-Butylbenzene	ND	4.0 µg/L
16 Vinyl acetate	ND	400 µg/L	60 1,2,4-Trimethylbenzene	25	4.0 µg/L
17 2-Butanone (MEK)	ND	80 µg/L	61 sec-Butylbenzene	ND	4.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	4.0 µg/L	62 1,3-Dichlorobenzene	ND	4.0 µg/L
19 cis-1,2-Dichloroethane	ND	4.0 µg/L	63 1,4-Dichlorobenzene	ND	4.0 µg/L
20 Bromochloromethane	ND	4.0 µg/L	64 4-Isopropyltoluene	ND	4.0 µg/L
21 Chloroform	ND	4.0 µg/L	65 1,2-Dichlorobenzene	ND	4.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	4.0 µg/L	66 n-Butylbenzene	ND	4.0 µg/L
23 2,2-Dichloropropane	ND	4.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	24 µg/L
24 1,2-Dichloroethane	ND	4.0 µg/L	68 1,2,4-Trichlorobenzene	ND	16 µg/L
25 1,1,1-Trichloroethane	ND	4.0 µg/L	69 Naphthalene	28	16 µg/L
26 1,1-Dichloropropene	ND	4.0 µg/L	70 1,2,3-Trichlorobenzene	ND	16 µg/L
27 Carbon tetrachloride	ND	4.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC
28 Benzene	370	2.0 µg/L	72 Surr: Toluene-d8	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	4.0 µg/L	73 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
30 Dibromomethane	ND	4.0 µg/L			
31 1,2-Dichloropropane	ND	4.0 µg/L			
32 Trichloroethane	ND	4.0 µg/L			
33 Bromodichloromethane	ND	4.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	20 µg/L			
35 cis-1,3-Dichloropropene	ND	4.0 µg/L			
36 trans-1,3-Dichloropropene	ND	4.0 µg/L			
37 1,1,2-Trichloroethane	ND	4.0 µg/L			
38 Toluene	2.1	2.0 µg/L			
39 1,3-Dichloropropane	ND	4.0 µg/L			
40 2-Hexanone	ND	40 µg/L			
41 Dibromochloromethane	ND	4.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	8.0 µg/L			
43 Tetrachloroethene	ND	4.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	4.0 µg/L			

*This analyte was analyzed separately on 3/22/10 in order to achieve lower reporting limits for the other analytes.

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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3/25/10

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-10A
Client I.D. Number: TB-2

Sampled: 03/16/10 07:00
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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JJG
3/25/10

Report Date

Page 1 of 1



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-11A
Client I.D. Number: DUP-1

Sampled: 03/16/10 00:00
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	0.68	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	0.80	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	450	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	3.6	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC
28 Benzene	0.50	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	1.1	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]
3/25/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMED DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-12A
Client I.D. Number: DUP-2

Sampled: 03/16/10 00:00
Received: 03/17/10
Extracted: 03/23/10
Analyzed: 03/23/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	4.0 µg/L	45 Chlorobenzene	ND	4.0 µg/L
2 Chloromethane	ND	16 µg/L	46 Ethylbenzene	33	2.0 µg/L
3 Vinyl chloride	ND	4.0 µg/L	47 m,p-Xylene	ND	2.0 µg/L
4 Chloroethane	ND	4.0 µg/L	48 Bromoform	ND	4.0 µg/L
5 Bromomethane	ND	16 µg/L	49 Styrene	ND	4.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	9.7	2.0 µg/L
7 Acetone	ND	80 µg/L	51 1,1,2,2-Tetrachloroethane	ND	4.0 µg/L
8 1,1-Dichloroethene	ND	4.0 µg/L	52 1,2,3-Trichloropropane	ND	16 µg/L
9 Tertiary Butyl Alcohol (TBA)	60,000	400 µg/L	53 Isopropylbenzene	ND	4.0 µg/L
10 Dichloromethane	ND	16 µg/L	54 Bromobenzene	ND	4.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	4.0 µg/L
12 Carbon disulfide	ND	20 µg/L	56 4-Chlorotoluene	ND	4.0 µg/L
13 trans-1,2-Dichloroethene	ND	4.0 µg/L	57 2-Chlorotoluene	ND	4.0 µg/L
14 Methyl tert-butyl ether (MTBE)	340	2.0 µg/L	58 1,3,5-Trimethylbenzene	5.6	4.0 µg/L
15 1,1-Dichloroethane	ND	4.0 µg/L	59 tert-Butylbenzene	ND	4.0 µg/L
16 Vinyl acetate	ND	400 µg/L	60 1,2,4-Trimethylbenzene	25	4.0 µg/L
17 2-Butanone (MEK)	ND	80 µg/L	61 sec-Butylbenzene	ND	4.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	4.0 µg/L	62 1,3-Dichlorobenzene	ND	4.0 µg/L
19 cis-1,2-Dichloroethene	ND	4.0 µg/L	63 1,4-Dichlorobenzene	ND	4.0 µg/L
20 Bromochloromethane	ND	4.0 µg/L	64 4-Isopropyltoluene	ND	4.0 µg/L
21 Chloroform	ND	4.0 µg/L	65 1,2-Dichlorobenzene	ND	4.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	4.0 µg/L	66 n-Butylbenzene	ND	4.0 µg/L
23 2,2-Dichloropropane	ND	4.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	24 µg/L
24 1,2-Dichloroethane	ND	4.0 µg/L	68 1,2,4-Trichlorobenzene	ND	16 µg/L
25 1,1,1-Trichloroethane	ND	4.0 µg/L	69 Naphthalene	28	16 µg/L
26 1,1-Dichloropropene	ND	4.0 µg/L	70 1,2,3-Trichlorobenzene	ND	16 µg/L
27 Carbon tetrachloride	ND	4.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC
28 Benzene	360	2.0 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	4.0 µg/L	73 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
30 Dibromomethane	ND	4.0 µg/L			
31 1,2-Dichloropropane	ND	4.0 µg/L			
32 Trichloroethene	ND	4.0 µg/L			
33 Bromodichloromethane	ND	4.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	20 µg/L			
35 cis-1,3-Dichloropropene	ND	4.0 µg/L			
36 trans-1,3-Dichloropropene	ND	4.0 µg/L			
37 1,1,2-Trichloroethane	ND	4.0 µg/L			
38 Toluene	ND	2.0 µg/L			
39 1,3-Dichloropropane	ND	4.0 µg/L			
40 2-Hexanone	ND	40 µg/L			
41 Dibromochloromethane	ND	4.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	8.0 µg/L			
43 Tetrachloroethene	ND	4.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	4.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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3/25/10

Report Date

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-13A
Client I.D. Number: DUP-3

Sampled: 03/16/10 00:00
Received: 03/17/10
Extracted: 03/24/10
Analyzed: 03/24/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	1,600	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	2,400	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Styrene	ND	200 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 o-Xylene	1,900	100 µg/L
7 Acetone	4,000	µg/L	51 1,1,2,2-Tetrachloroethane	ND	200 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,2,3-Trichloropropane	ND	800 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 Isopropylbenzene	ND	200 µg/L
10 Dichloromethane	ND	800 µg/L	54 Bromobenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 n-Propylbenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 4-Chlorotoluene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 2-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 1,3,5-Trimethylbenzene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 tert-Butylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 1,2,4-Trimethylbenzene	610	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 sec-Butylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	270	µg/L	62 1,3-Dichlorobenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,4-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 4-Isopropyltoluene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 1,2-Dichlorobenzene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 n-Butylbenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2,4-Trichlorobenzene	ND	800 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 Naphthalene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 1,2,3-Trichlorobenzene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC
28 Benzene	12,000	µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	200 µg/L			
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	5,700	µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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3/25/10

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP DFSP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT10031702-14A
Client I.D. Number: EB-2

Sampled: 03/16/10 14:10
Received: 03/17/10
Extracted: 03/22/10
Analyzed: 03/22/10

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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3/25/10

Report Date

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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VOC Sample Preservation Report

Work Order: GMT10031702

Job: KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
10031702-01A	GMW-36	Aqueous	2
10031702-02A	GMW-0-2	Aqueous	2
10031702-03A	GMW-0-14	Aqueous	2
10031702-04A	GMW-0-15	Aqueous	2
10031702-05A	GMW-0-16	Aqueous	2
10031702-06A	GMW-0-18	Aqueous	2
10031702-07A	GMW-39	Aqueous	2
10031702-08A	MW-SF-1	Aqueous	2
10031702-09A	PZ-5	Aqueous	2
10031702-10A	TB-2	Aqueous	2
10031702-11A	DUP-1	Aqueous	2
10031702-12A	DUP-2	Aqueous	2
10031702-13A	DUP-3	Aqueous	2
10031702-14A	EB-2	Aqueous	2

3/25/10
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
23-Mar-10

QC Summary Report

Work Order:
10031702

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 031710.B\021SMPL.D\

Batch ID: 23762

Analysis Date: 03/17/2010 15:36

Sample ID: MB-23762

Units : mg/L

Run ID: ICP/MS_100317A

Prep Date: 03/17/2010 11:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Selenium (Se)	ND	0.005								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 031710.B\022_LCS.D\

Batch ID: 23762

Analysis Date: 03/17/2010 15:41

Sample ID: LCS-23762

Units : mg/L

Run ID: ICP/MS_100317A

Prep Date: 03/17/2010 11:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Selenium (Se)	0.228	0.005	0.25		91	85	118			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 031710.B\027SMPL.D\

Batch ID: 23762

Analysis Date: 03/17/2010 16:09

Sample ID: 10031702-01AMS

Units : mg/L

Run ID: ICP/MS_100317A

Prep Date: 03/17/2010 11:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Selenium (Se)	0.233	0.005	0.25	0	93	70	131			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 031710.B\028SMPL.D\

Batch ID: 23762

Analysis Date: 03/17/2010 16:15

Sample ID: 10031702-01AMSD

Units : mg/L

Run ID: ICP/MS_100317A

Prep Date: 03/17/2010 11:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Selenium (Se)	0.212	0.005	0.25	0	85	70	131	0.2329	9.6(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B / E**

File ID: **7A03151063.D**

Batch ID: **23767**

Analysis Date: **03/17/2010 15:20**

Sample ID: **MBLK-23767**

Units : **mg/L**

Run ID: **FID_7_100317A**

Prep Date: **03/17/2010 12:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.128		0.15		85	57	147			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B / E**

File ID: **7A03151064.D**

Batch ID: **23767**

Analysis Date: **03/17/2010 15:46**

Sample ID: **LCS-23767**

Units : **mg/L**

Run ID: **FID_7_100317A**

Prep Date: **03/17/2010 12:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.48	0.05	2.5		99	67	130			
Surr: Nonane	0.123		0.15		82	57	147			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B / E**

File ID: **7A03151067.D**

Batch ID: **23767**

Analysis Date: **03/17/2010 17:04**

Sample ID: **10031742-02AMS**

Units : **mg/L**

Run ID: **FID_7_100317A**

Prep Date: **03/17/2010 12:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.02	0.05	2.5	0.214	112	49	150			
Surr: Nonane	0.158		0.15		105	57	147			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B / E**

File ID: **7A03151068.D**

Batch ID: **23767**

Analysis Date: **03/17/2010 17:30**

Sample ID: **10031742-02AMSD**

Units : **mg/L**

Run ID: **FID_7_100317A**

Prep Date: **03/17/2010 12:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.66	0.05	2.5	0.214	98	49	150	3.019	12.6(38)	
Surr: Nonane	0.122		0.15		81	57	147			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0108		0.01		108	70	130			
Surr: Toluene-d8	0.00977		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.0104		0.01		104	70	130			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.426	0.05	0.4		107	70	130			
Surr: 1,2-Dichloroethane-d4	0.0109		0.01		109	70	130			
Surr: Toluene-d8	0.00955		0.01		96	70	130			
Surr: 4-Bromofluorobenzene	0.0104		0.01		104	70	130			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2	0.25	2	0	99.8	58	135			
Surr: 1,2-Dichloroethane-d4	0.0583		0.05		117	70	130			
Surr: Toluene-d8	0.0468		0.05		94	70	130			
Surr: 4-Bromofluorobenzene	0.0509		0.05		102	70	130			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.25	0.25	2	0	113	58	135	1.995	12.1(20)	
Surr: 1,2-Dichloroethane-d4	0.0572		0.05		114	70	130			
Surr: Toluene-d8	0.0469		0.05		94	70	130			
Surr: 4-Bromofluorobenzene	0.0511		0.05		102	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\100323\10032310.D

Batch ID: **MS07W0323B**

Analysis Date: **03/23/2010 11:30**

Sample ID: **MBLK MS07W0323B**

Units: **mg/L**

Run ID: **MSD_07_100323B**

Prep Date: **03/23/2010 11:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0109		0.01		109	70	130			
Surr: Toluene-d8	0.00971		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00999		0.01		99.9	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\100323\10032304.D

Batch ID: **MS07W0323B**

Analysis Date: **03/23/2010 08:51**

Sample ID: **GLCS MS07W0323B**

Units: **mg/L**

Run ID: **MSD_07_100323B**

Prep Date: **03/23/2010 08:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.411	0.05	0.4		103	70	130			
Surr: 1,2-Dichloroethane-d4	0.0111		0.01		111	70	130			
Surr: Toluene-d8	0.00944		0.01		94	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\100323\10032317.D

Batch ID: **MS07W0323B**

Analysis Date: **03/23/2010 14:08**

Sample ID: **10031907-02AGS**

Units: **mg/L**

Run ID: **MSD_07_100323B**

Prep Date: **03/23/2010 14:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2	0.25	2	0	100	58	135			
Surr: 1,2-Dichloroethane-d4	0.0556		0.05		111	70	130			
Surr: Toluene-d8	0.0477		0.05		95	70	130			
Surr: 4-Bromofluorobenzene	0.0502		0.05		100	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\100323\10032318.D

Batch ID: **MS07W0323B**

Analysis Date: **03/23/2010 14:31**

Sample ID: **10031907-02AGSD**

Units: **mg/L**

Run ID: **MSD_07_100323B**

Prep Date: **03/23/2010 14:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.13	0.25	2	0	107	58	135	2.005	6.2(20)	
Surr: 1,2-Dichloroethane-d4	0.0543		0.05		109	70	130			
Surr: Toluene-d8	0.0475		0.05		95	70	130			
Surr: 4-Bromofluorobenzene	0.05		0.05		99.9	70	130			

Comments:

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Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

n-Butylbenzene	ND	1								
1,2-Dibromo-3-chloropropane (DBCP)	ND	5								
1,2,4-Trichlorobenzene	ND	2								
Naphthalene	ND	10								
1,2,3-Trichlorobenzene	ND	2								
Surr: 1,2-Dichloroethane-d4	10.8		10		108	70	130			
Surr: Toluene-d8	9.77		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\100322\10032213.D

Batch ID: MS07W0322A

Analysis Date: 03/22/2010 13:24

Sample ID: LCS MS07W0322A

Units: µg/L

Run ID: MSD_07_100322A

Prep Date: 03/22/2010 13:24

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10	1	10		100	80	120			
Methyl tert-butyl ether (MTBE)	12	0.5	10		120	62	136			
Benzene	11.5	0.5	10		115	70	130			
Trichloroethene	11.3	1	10		113	70	130			
Toluene	10.1	0.5	10		101	80	120			
Chlorobenzene	10.2	1	10		102	70	130			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	10	0.5	10		100	70	130			
o-Xylene	11.2	0.5	10		112	70	130			
Surr: 1,2-Dichloroethane-d4	11.1		10		111	70	130			
Surr: Toluene-d8	9.73		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.3		10		103	70	130			

Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\100322\10032218.D

Batch ID: MS07W0322A

Analysis Date: 03/22/2010 15:19

Sample ID: 10031702-05AMS

Units: µg/L

Run ID: MSD_07_100322A

Prep Date: 03/22/2010 15:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	33.6	2.5	50	0	67	60	130			
Methyl tert-butyl ether (MTBE)	49.2	1.3	50	0.57	97	56	141			
Benzene	47.7	1.3	50	0	95	67	130			
Trichloroethene	45.2	2.5	50	0	90	69	130			
Toluene	40.8	1.3	50	0	82	66	130			
Chlorobenzene	41.9	2.5	50	0	84	70	130			
Ethylbenzene	42.1	1.3	50	0	84	68	130			
m,p-Xylene	40.7	1.3	50	0	81	64	130			
o-Xylene	45.6	1.3	50	0	91	70	130			
Surr: 1,2-Dichloroethane-d4	56.9		50		114	70	130			
Surr: Toluene-d8	47.3		50		95	70	130			
Surr: 4-Bromofluorobenzene	49.6		50		99	70	130			

Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\100322\10032219.D

Batch ID: MS07W0322A

Analysis Date: 03/22/2010 15:42

Sample ID: 10031702-05AMSD

Units: µg/L

Run ID: MSD_07_100322A

Prep Date: 03/22/2010 15:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	38.5	2.5	50	0	77	60	130	33.63	13.5(20)	
Methyl tert-butyl ether (MTBE)	56.4	1.3	50	0.57	112	56	141	49.17	13.8(20)	
Benzene	51.5	1.3	50	0	103	67	130	47.71	7.6(20)	
Trichloroethene	49.4	2.5	50	0	99	69	130	45.21	8.8(20)	
Toluene	44.4	1.3	50	0	89	66	130	40.75	8.6(20)	
Chlorobenzene	45.9	2.5	50	0	92	70	130	41.93	9.1(20)	
Ethylbenzene	46	1.3	50	0	92	68	130	42.08	8.9(20)	
m,p-Xylene	44.3	1.3	50	0	89	64	130	40.67	8.6(20)	
o-Xylene	50.1	1.3	50	0	100	70	130	45.62	9.3(20)	
Surr: 1,2-Dichloroethane-d4	57.7		50		115	70	130			
Surr: Toluene-d8	47.8		50		96	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.5	70	130			



Alpha Analytical, Inc.

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Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

n-Butylbenzene	ND	1								
1,2-Dibromo-3-chloropropane (DBCP)	ND	5								
1,2,4-Trichlorobenzene	ND	2								
Naphthalene	ND	10								
1,2,3-Trichlorobenzene	ND	2								
Surr: 1,2-Dichloroethane-d4	10.9		10		109	70	130			
Surr: Toluene-d8	9.71		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.99		10		99.9	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\100323\10032307.D

Batch ID: MS07W0323A

Analysis Date: 03/23/2010 10:23

Sample ID: LCS MS07W0323A

Units: µg/L

Run ID: MSD_07_100323B

Prep Date: 03/23/2010 10:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.57	1	10		96	80	120			
Methyl tert-butyl ether (MTBE)	11.6	0.5	10		116	62	136			
Benzene	11.1	0.5	10		111	70	130			
Trichloroethene	11	1	10		110	70	130			
Toluene	9.87	0.5	10		99	80	120			
Chlorobenzene	10	1	10		100	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	9.92	0.5	10		99	70	130			
o-Xylene	11.1	0.5	10		111	70	130			
Surr: 1,2-Dichloroethane-d4	11.1		10		111	70	130			
Surr: Toluene-d8	9.72		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\100323\10032315.D

Batch ID: MS07W0323A

Analysis Date: 03/23/2010 13:23

Sample ID: 10031907-02AMS

Units: µg/L

Run ID: MSD_07_100323B

Prep Date: 03/23/2010 13:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	53.5	2.5	50	0	107	60	130			
Methyl tert-butyl ether (MTBE)	51.9	1.3	50	0	104	56	141			
Benzene	52.2	1.3	50	0	104	67	130			
Trichloroethene	51.3	2.5	50	0	103	69	130			
Toluene	45.4	1.3	50	0	91	66	130			
Chlorobenzene	46.8	2.5	50	0	94	70	130			
Ethylbenzene	47	1.3	50	0	94	68	130			
m,p-Xylene	46	1.3	50	0	92	64	130			
o-Xylene	51.3	1.3	50	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	56.3		50		113	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	48.8		50		98	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\100323\10032316.D

Batch ID: MS07W0323A

Analysis Date: 03/23/2010 13:45

Sample ID: 10031907-02AMSD

Units: µg/L

Run ID: MSD_07_100323B

Prep Date: 03/23/2010 13:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.9	2.5	50	0	98	60	130	53.51	9.0(20)	
Methyl tert-butyl ether (MTBE)	55.9	1.3	50	0	112	56	141	51.91	7.3(20)	
Benzene	53.8	1.3	50	0	108	67	130	52.18	3.0(20)	
Trichloroethene	52.9	2.5	50	0	106	69	130	51.3	3.0(20)	
Toluene	47	1.3	50	0	94	66	130	45.4	3.4(20)	
Chlorobenzene	48	2.5	50	0	96	70	130	46.75	2.6(20)	
Ethylbenzene	48.5	1.3	50	0	97	68	130	47.04	3.0(20)	
m,p-Xylene	47.3	1.3	50	0	95	64	130	46.02	2.7(20)	
o-Xylene	52.4	1.3	50	0	105	70	130	51.29	2.2(20)	
Surr: 1,2-Dichloroethane-d4	56.5		50		113	70	130			
Surr: Toluene-d8	48.1		50		96	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			



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Date:
24-Mar-2010

QC Summary Report

Work Order:
10031702

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED
Page: 1 of 2

CA

WorkOrder : GMTC10031702

Report Due By : 5:00 PM On : 26-Mar-2010

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

Client:
AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200

Newport Beach, CA 92663-3627

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : T. Rhymes

PO :
Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp Samples Received Date Printed
4 °C 17-Mar-2010 18-Mar-2010

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
				Alpha	Sub	TAT	METALS_A Q	TPHE_W	TPH/P_W	VOC_W	
GMT10031702-01A	GMW-36	AQ	03/16/10 13:33	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-02A	GMW-0-2	AQ	03/16/10 07:39	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-03A	GMW-0-14	AQ	03/16/10 12:45	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-04A	GMW-0-15	AQ	03/16/10 11:07	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-05A	GMW-0-16	AQ	03/16/10 08:20	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-06A	GMW-0-18	AQ	03/16/10 09:46	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-07A	GMW-39	AQ	03/16/10 08:56	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-08A	MW-SF-1	AQ	03/16/10 10:25	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Logged in total selenium per previous workorders. Amended 3/18/10 @ 7:48: Per email from Thandar : sample -10A (TB-2) needs VOCs and oxygenates only therefore deleted TPH/P/FP from sample -10A. EA

Signature	Print Name	Company	Date/Time
	Elizabeth Adcox	Alpha Analytical, Inc.	3-18-10 7:53

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED
Page: 2 of 2

CA

WorkOrder : GMTC10031702

Report Due By : 5:00 PM On : 26-Mar-2010

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

Client:
 AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

 Newport Beach, CA 92663-3627

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : T. Rhymes

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 4 °C 17-Mar-2010 18-Mar-2010

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
				Alpha	Sub	TAT	METALS_A Q	TPH/E_W	TPH/P_W	VOC_W	
GMT10031702-09A	PZ-5	AQ	03/16/10 11:43	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031702-10A	TB-2	AQ	03/16/10 07:00	2	0	7				TPHE(0.10) +Vinyl acetate	Reno Trip Blank 1/18/10
GMT10031702-11A	DUP-1	AQ	03/16/10 00:00	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031702-12A	DUP-2	AQ	03/16/10 00:00	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031702-13A	DUP-3	AQ	03/16/10 00:00	6	0	7		TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT10031702-14A	EB-2	AQ	03/16/10 14:10	7	0	7	Se	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Logged in total selenium per previous workorders. Amended 3/18/10 @ 7:48: Per email from Thandar : sample -10A (TB-2) needs VOCs and oxygenates only therefore deleted TPH/P/FP from sample -10A. EA

Signature	Print Name	Company	Date/Time
	Elizabeth Adcox	Alpha Analytical, Inc.	3-18-10 7:53

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : GMTC10031702
Report Due By : 5:00 PM On : 26-Mar-2010

Client:
 AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes

Sampled by : T. Rhymes

Newport Beach, CA 92663-3627

PO :

Cooler Temp	Samples Received	Date Printed
4 °C	17-Mar-2010	17-Mar-2010

Client's COC # : none Job : KMEP DFSP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
				Alpha	Sub	TAT	METALS_A Q	TPHE_W	TPH/P_W	VOC_W	
GMT10031702-01A	GMW-36	AQ	03/16/10 13:33	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-02A	GMW-0-2	AQ	03/16/10 07:39	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-03A	GMW-0-14	AQ	03/16/10 12:45	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-04A	GMW-0-15	AQ	03/16/10 11:07	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-05A	GMW-0-16	AQ	03/16/10 08:20	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-06A	GMW-0-18	AQ	03/16/10 09:46	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-07A	GMW-39	AQ	03/16/10 08:56	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-08A	MW-SF-1	AQ	03/16/10 10:25	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Logged in total selenium per previous workorders. :

Signature	Print Name	Company	Date/Time
	Elizabeth Adcox	Alpha Analytical, Inc.	3-17-10 10:18

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CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : GMTC10031702
Report Due By : 5:00 PM On : 26-Mar-2010

Client:
 AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

 Newport Beach, CA 92663-3627

Report Attention	Phone Number	EEmail Address
Shiow-Whei Chou	(949) 642-0245 x	shiow-whei.chou@amec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

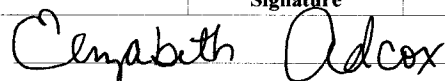
Sampled by : T. Rhymes

PO :
 Client's COC # : none Job : KMEP DFSP Norwalk
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 4 °C 17-Mar-2010 17-Mar-2010

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
				Alpha	Sub	TAT	METALS_A Q	TPHE_W	TPH/P_W	VOC_W	
GMT10031702-09A	PZ-5	AQ	03/16/10 11:43	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-10A	TB-2	AQ	03/16/10 07:00	2	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	Reno Trip Blank 1/18/10
GMT10031702-11A	DUP-1	AQ	03/16/10 00:00	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-12A	DUP-2	AQ	03/16/10 00:00	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-13A	DUP-3	AQ	03/16/10 00:00	6	0	7		TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
GMT10031702-14A	EB-2	AQ	03/16/10 14:10	7	0	7	Se	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Logged in total selenium per previous workorders. :

Signature	Print Name	Company	Date/Time
	Elizabeth Adcox	Alpha Analytical, Inc.	3-17-10 10:18

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shioh-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	Selenium By EPA 6020						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation												
GMW-36	3-16-10	1333	AQ	7	HCL / HNO3	VOA / Poly	X	X	X								GMT10031702-01
GMW-0-2		0739		6	HCL	VOA	X	X									-02
GMW-0-14		1245		6	HCL	VOA	X	X									-03
GMW-0-15		1107		7	HCL / HNO3	VOA / Poly	X	X	X								-04
GMW-0-16		0820		6	HCL	VOA	X	X									-05
GMW-0-18		0946		7	HCL / HNO3	VOA / Poly	X	X	X								-06
GMW-39		0856		6	HCL	VOA	X	X									-07
MN-SF-1		1025		6	HCL	VOA	X	X									-08
PZ-5		1143		6	HCL	VOA	X	X									-09
TB-2		0700		2	HCL	VOA	X	X									-10

SAMPLING COMPLETED DATE 3/16/10 TIME 1410 SAMPLING PERFORMED BY T. RHYMES RESULTS NEEDED NO LATER THAN Standard

RELEASED BY TRK TIME 11020 RECEIVED BY (SO) SM DATE 3/16/10 TIME 11020

RELEASED BY (SO) SM TIME 11020 RECEIVED BY Anthony Stark DATE 3/16/10 TIME 1620

RELEASED BY Anthony Stark 3/16/10 TIME 1620 RECEIVED BY Campbell Oldcox DATE 3-17-10 TIME 10:18

SHIPPED VIA TIME SENT COOLER #

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shioh-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT **Kinder Morgan**

SITE **DFSP Norwalk**

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	Selenium By EPA 6020					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #	
				#	Preservation												Type
DUP-1	3/16/10		AQ	6	HCL	VOA	X	X									-11
DUP-2				6	HCL	VOA	X	X									-12
DUP-3				6	HCL	VOA	X	X									-13
EB-2		1410		7	HCL/ HNO3	VOA/ POLY	X	X	X								-14

SAMPLING COMPLETED DATE 3/16/10 TIME 1410 SAMPLING PERFORMED BY T-RHUMES

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *[Signature]* TIME 1020 RECEIVED BY *[Signature]* DATE 3/16/10 TIME 1620

RELEASED BY *[Signature]* TIME 1020 RECEIVED BY *Anthony Stalk* DATE 3/16/10 TIME 1620

RELEASED BY *Anthony Stalk* DATE 3/16/10 TIME 1620 RECEIVED BY *Elizabeth Adcox* DATE 3-17-10 TIME 10:18

SHIPPED VIA TIME SENT COOLER #