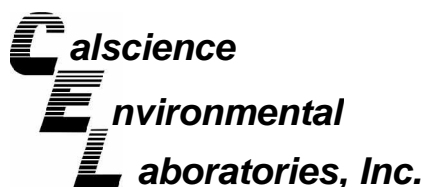


**Appendix D**  
**Laboratory Analytical Reports and**  
**Chain-of-Custody Documents –**  
**January 2011 Sentry Event**

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January 18, 2011

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

Subject: **CalScience Work Order No.: 11-01-0546**  
**Client Reference: DFSP NORWALK / 746649**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/11/2011 and analyzed in accordance with the attached chain-of-custody.

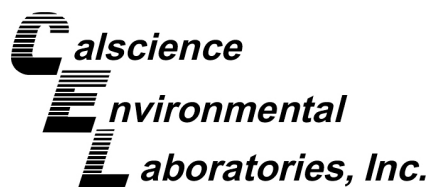
CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, 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 / 746649  
**CalScience Work Order Number:** 11-01-0546

1. EPA 8015B(M) – TPH as JP-5:

The COC associated with this SDG requested JP-5 analysis on all samples. Bottles for this analysis were not received for two samples ("TB-1" and "EB-1"). An e-mail was received from Blaine Tech on 01/12/11 confirming that JP-5 analysis was not required for these two samples.

A handwritten signature in black ink, appearing to be a stylized name.

## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-57</b>	<b>11-01-0546-1-G</b>	<b>01/10/11 09:11</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 15:40</b>	<b>110112B10</b>

<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	102	68-140	

<b>GMW-58</b>	<b>11-01-0546-2-J</b>	<b>01/10/11 14:27</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 15:59</b>	<b>110112B10</b>
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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	410	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	109	68-140	

<b>GMW-61</b>	<b>11-01-0546-3-G</b>	<b>01/10/11 15:16</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 16:17</b>	<b>110112B10</b>
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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	910	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	107	68-140	

<b>GMW-63</b>	<b>11-01-0546-4-G</b>	<b>01/10/11 10:14</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 16:34</b>	<b>110112B10</b>
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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	

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

## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-64</b>	<b>11-01-0546-5-G</b>	<b>01/10/11 10:56</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 16:53</b>	<b>110112B10</b>

<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	

<b>GMW-65</b>	<b>11-01-0546-6-G</b>	<b>01/10/11 11:47</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/14/11 02:58</b>	<b>110112B10</b>
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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	102	68-140	

<b>MW-14</b>	<b>11-01-0546-7-G</b>	<b>01/10/11 12:42</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 17:27</b>	<b>110112B10</b>
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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	

<b>MW-22 (mid)</b>	<b>11-01-0546-8-G</b>	<b>01/10/11 13:21</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>01/12/11</b>	<b>01/13/11 17:46</b>	<b>110112B10</b>
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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	120	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: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58 dup	11-01-0546-11-D	01/10/11 00:00	Aqueous	GC 27	01/12/11	01/13/11 18:03	110112B10

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	410	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	68-140	

EXP-1	11-01-0546-12-J	01/10/11 11:50	Aqueous	GC 27	01/12/11	01/13/11 18:21	110112B10
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	68-140	

EXP-2	11-01-0546-13-J	01/10/11 12:26	Aqueous	GC 27	01/12/11	01/13/11 18:56	110112B10
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L

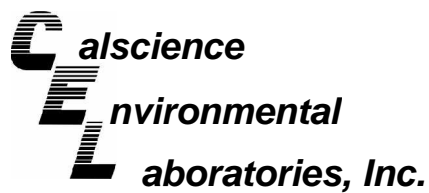
Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

EXP-3	11-01-0546-14-J	01/10/11 13:05	Aqueous	GC 27	01/12/11	01/13/11 19:15	110112B10
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	68-140	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

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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	099-12-366-74	N/A	Aqueous	GC 27	01/12/11	01/13/11 13:56	110112B10

<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: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-61</b>	<b>11-01-0546-3-E</b>	<b>01/10/11 15:16</b>	<b>Aqueous</b>	<b>GC 57</b>	<b>01/13/11</b>	<b>01/13/11 19:54</b>	<b>110113B01</b>

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	800	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	211	38-134	2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>EXP-1</b>	<b>11-01-0546-12-E</b>	<b>01/10/11 11:50</b>	<b>Aqueous</b>	<b>GC 57</b>	<b>01/13/11</b>	<b>01/13/11 20:27</b>	<b>110113B01</b>

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	132	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>EXP-2</b>	<b>11-01-0546-13-E</b>	<b>01/10/11 12:26</b>	<b>Aqueous</b>	<b>GC 22</b>	<b>01/17/11</b>	<b>01/18/11 10:00</b>	<b>110117B01</b>

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>EXP-3</b>	<b>11-01-0546-14-E</b>	<b>01/10/11 13:05</b>	<b>Aqueous</b>	<b>GC 57</b>	<b>01/13/11</b>	<b>01/13/11 21:01</b>	<b>110113B01</b>

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	143	38-134	2

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

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	099-12-247-4,803	N/A	Aqueous	GC 57	01/13/11	01/13/11 10:55	110113B01

<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	121	38-134			

Method Blank	099-12-247-4,814	N/A	Aqueous	GC 22	01/17/11	01/18/11 04:30	110117B01
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<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	81	38-134			

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

## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

Page 1 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-57	11-01-0546-1-A	01/10/11 09:11	Aqueous	GC/MS M	01/12/11	01/13/11 00:38	110112L02

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	0.32	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	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 Limits	Qual
Dibromofluoromethane	104	80-126		1,2-Dichloroethane-d4	108	80-134	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	97	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

Page 2 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	11-01-0546-2-A	01/10/11 14:27	Aqueous	GC/MS M	01/12/11	01/13/11 02:24	110112L02

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	5.8	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	2.4	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	0.33	1.0	0.20	1	J	n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	0.33	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		1,1,2,2-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	0.62	1.0	0.37	1	J	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)	0.46	0.50	0.30	1	J
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 Limits	Qual
Dibromofluoromethane	104	80-126		1,2-Dichloroethane-d4	107	80-134	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	98	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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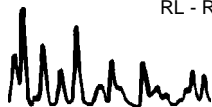
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	11-01-0546-3-A	01/10/11 15:16	Aqueous	GC/MS M	01/12/11	01/13/11 02:51	110112L02

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	190	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	1.8	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	43	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	1.3	1.0	0.28	1		Naphthalene	7.5	10	2.5	1	J
sec-Butylbenzene	6.4	1.0	0.20	1		n-Propylbenzene	13	1.0	0.79	1	
tert-Butylbenzene	0.99	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		1,1,2,2-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	0.48	0.50	0.45	1	J
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 Limits	Qual
Dibromofluoromethane	105	80-126		1,2-Dichloroethane-d4	106	80-134	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	96	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-4-A	01/10/11 10:14	Aqueous	GC/MS M	01/12/11	01/13/11 03:18	110112L02

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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	107	80-134	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	95	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-5-A	01/10/11 10:56	Aqueous	GC/MS M	01/12/11	01/13/11 03:45	110112L02

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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	106	80-134	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	95	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-6-A	01/10/11 11:47	Aqueous	GC/MS M	01/12/11	01/13/11 04:12	110112L02

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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	80-126		1,2-Dichloroethane-d4	107	80-134	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	94	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-7-A	01/10/11 12:42	Aqueous	GC/MS M	01/12/11	01/13/11 04:39	110112L02

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)	0.66	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 Limits	Qual
Dibromofluoromethane	104	80-126		1,2-Dichloroethane-d4	107	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	93	80-120	

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





## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22 (mid)	11-01-0546-8-A	01/10/11 13:21	Aqueous	GC/MS M	01/12/11	01/13/11 05:05	110112L02

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	4.8	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)	6.2	0.50	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	10	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	0.82	2.0	0.31	1	J
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 Limits	Qual
Dibromofluoromethane	105	80-126		1,2-Dichloroethane-d4	110	80-134	
Toluene-d8	98	80-120		1,4-Bromofluorobenzene	99	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-1	11-01-0546-9-A	01/10/11 07:00	Aqueous	GC/MS M	01/12/11	01/13/11 05:32	110112L02

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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126		1,2-Dichloroethane-d4	111	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	95	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	11-01-0546-10-A	01/10/11 13:35	Aqueous	GC/MS M	01/12/11	01/13/11 05:59	110112L02

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	0.56	1.0	0.22	1	J	Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	0.50	0.33	1	
Chloroform	2.7	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 Limits	Qual
Dibromofluoromethane	109	80-126		1,2-Dichloroethane-d4	110	80-134	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	95	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58 dup	11-01-0546-11-A	01/10/11 00:00	Aqueous	GC/MS M	01/12/11	01/13/11 06:26	110112L02

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	5.8	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	2.5	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	0.30	1.0	0.20	1	J	n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	0.31	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		1,1,2,2-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	0.69	1.0	0.37	1	J	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)	0.43	0.50	0.30	1	J
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 Limits	Qual
Dibromofluoromethane	108	80-126		1,2-Dichloroethane-d4	109	80-134	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	96	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-12-A	01/10/11 11:50	Aqueous	GC/MS M	01/12/11	01/13/11 06:52	110112L02

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	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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	80-126		1,2-Dichloroethane-d4	112	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	95	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-13-A	01/10/11 12:26	Aqueous	GC/MS M	01/12/11	01/13/11 07:19	110112L02

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	0.31	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	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 Limits	Qual
Dibromofluoromethane	103	80-126		1,2-Dichloroethane-d4	109	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	93	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	11-01-0546-14-A	01/10/11 13:05	Aqueous	GC/MS M	01/12/11	01/13/11 07:46	110112L02

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	0.64	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)	1.0	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 Limits	Qual
Dibromofluoromethane	108	80-126		1,2-Dichloroethane-d4	114	80-134	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	96	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	099-14-001-3,312	N/A	Aqueous	GC/MS M	01/12/11	01/13/11 00:11	110112L02

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

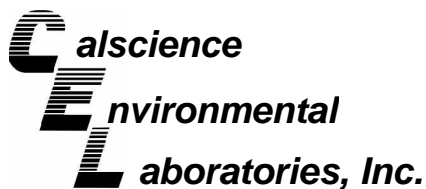
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	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		1,1,2,2-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 Limits	Qual
Dibromofluoromethane	101	80-126		1,2-Dichloroethane-d4	104	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	95	80-120	

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







## Quality Control - Spike/Spike Duplicate



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

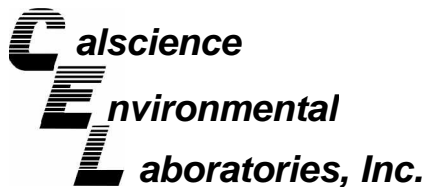
Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-0580-1	Aqueous	GC 57	01/13/11	01/13/11	110113S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	94	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

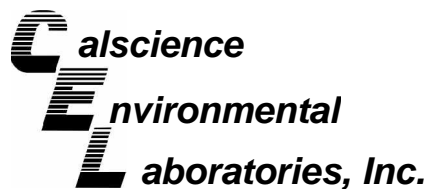
Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-0802-8	Aqueous	GC 22	01/17/11	01/18/11	110117S02

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

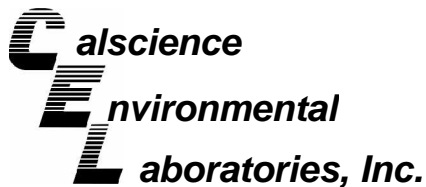
Date Received: 01/11/11  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B

Project DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-57	Aqueous	GC/MS M	01/12/11	01/13/11	110112S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	98	78-120	0	0-20	
Carbon Tetrachloride	94	99	67-139	5	0-20	
Chlorobenzene	96	99	80-120	3	0-20	
1,2-Dibromoethane	90	97	80-123	8	0-20	
1,2-Dichlorobenzene	88	91	76-120	3	0-20	
1,2-Dichloroethane	103	107	76-130	3	0-20	
1,1-Dichloroethene	97	99	70-130	2	0-27	
Ethylbenzene	99	102	73-127	3	0-20	
Toluene	97	100	72-126	2	0-20	
Trichloroethene	92	94	74-122	2	0-20	
Vinyl Chloride	87	97	65-131	11	0-24	
Methyl-t-Butyl Ether (MTBE)	96	100	69-123	4	0-20	
Tert-Butyl Alcohol (TBA)	90	95	65-131	6	0-22	
Diisopropyl Ether (DIPE)	106	109	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	103	106	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	97	102	70-124	5	0-20	
Ethanol	90	90	41-155	1	0-35	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

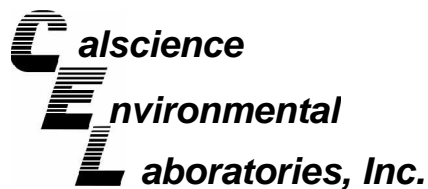
Date Received: N/A  
Work Order No: 11-01-0546  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-74	Aqueous	GC 27	01/12/11	01/13/11	110112B10

<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	100	101	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

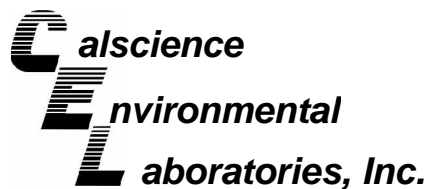
Date Received: N/A  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-4,803	Aqueous	GC 57	01/13/11	01/13/11	110113B01

<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	102	105	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

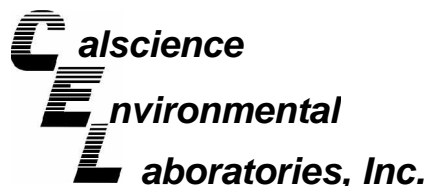
Date Received: N/A  
Work Order No: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-4,814	Aqueous	GC 22	01/17/11	01/18/11	110117B01

<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	95	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: 11-01-0546  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-3,312	Aqueous	GC/MS M	01/12/11	01/12/11	110112L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	92	101	80-120	73-127	9	0-20	
Carbon Tetrachloride	95	103	66-138	54-150	8	0-20	
Chlorobenzene	93	99	80-120	73-127	6	0-20	
1,2-Dibromoethane	91	95	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	87	93	80-120	73-127	7	0-20	
1,2-Dichloroethane	98	109	80-129	72-137	11	0-20	
1,1-Dichloroethene	93	100	71-131	61-141	7	0-20	
Ethylbenzene	96	103	80-123	73-130	7	0-20	
Toluene	96	103	79-121	72-128	7	0-20	
Trichloroethene	94	104	80-120	73-127	10	0-20	
Vinyl Chloride	88	101	70-136	59-147	14	0-20	
Methyl-t-Butyl Ether (MTBE)	92	98	72-126	63-135	7	0-22	
Tert-Butyl Alcohol (TBA)	84	96	71-125	62-134	13	0-25	
Diisopropyl Ether (DIPE)	101	110	69-129	59-139	9	0-20	
Ethyl-t-Butyl Ether (ETBE)	98	106	69-129	59-139	8	0-20	
Tert-Amyl-Methyl Ether (TAME)	95	102	67-133	56-144	8	0-20	
Ethanol	92	88	47-155	29-173	5	0-36	

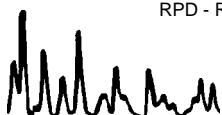
Total number of LCS compounds : 17

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

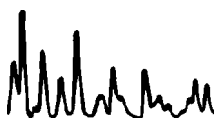


Work Order Number: 11-01-0546
 

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
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.
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.
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. All QC results are reported on a wet weight basis.





# 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: 10-11  
 Page: 2 of 2

**LABORATORY CLIENT:** Parsons  
**ADDRESS:** 100 W. Walnut St.  
**CITY:** Pasadena **STATE:** CA **ZIP:** 91127  
**TEL:** \_\_\_\_\_ **E-MAIL:** \_\_\_\_\_

**CLIENT PROJECT NAME / NUMBER:** DFSP Norwalk P.O. NO.: 746649  
**PROJECT CONTACT:** Mary Wcay  
**SAMPLER(S): (PRINT)** Sumil Patel **COELT LOG CODE:** \_\_\_\_\_ **TEMP:** \_\_\_\_\_ °C

LAB USE ONLY  LAB USE ONLY  
 COOLER RECEIPT

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	REQUESTED ANALYSES																		
			DATE	TIME			TPH (g) by (8015 EPA)	TPH (d) or (C6-C36) or (C6-C44)	TPH (SFS EPA 8015)	BTEX / MTBE (8260B) or ( )	VOCs (8260B) include BTEX, MTOE, TBA	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+					
1	GMW-57		10-11	0911	W	7	X																		
2	GMW-58			1427		10	X																		
3	GMW-61			1516		7	X																		
4	GMW-63			1014		7	X																		
5	GMW-64			1056		7	X																		
6	GMW-65			1147		7	X																		
7	MW-14			1242		7	X																		
8	MW-22(mid)			1321		7	X																		
9	TB-1			0700		3	X																		
10	EB-1			1335		3	X																		

**Relinquished by: (Signature)** [Signature] **Date:** 10-11 **Time:** 1700  
**Relinquished by: (Signature)** [Signature] **Date:** 01/11/11 **Time:** 1110  
**Relinquished by: (Signature)** [Signature] **Date:** 01/11/11 **Time:** 1325

92 of page 32 Date 08/09/97 744 898 9702



# SAMPLE ANOMALY FORM

**SAMPLES - CONTAINERS & LABELS:**

- Sample(s)/Container(s) NOT RECEIVED but listed on COC
- Sample(s)/Container(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
  - Sample ID
  - Date and/or Time Collected
  - Project Information
  - # of Container(s)
  - Analysis
- Sample container(s) compromised – Note in comments
  - Water present in sample container
  - Broken
- Sample container(s) not labeled
- Air sample container(s) 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:**

(9-10) BOTTLE FOR TPH (JPS EPA8015)  
NOT RECEIVED ; ANALYSIS  
REQUESTED ON COC .

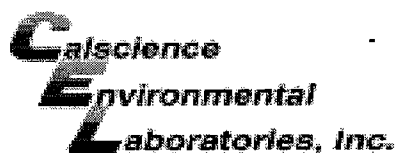
**HEADSPACE – Containers with Bubble > 6mm or 1/4 inch:**

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:       AS 01 / 11 / 11



WORK ORDER #: 11-01-0546

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: PARSONS

DATE: 01/11/11

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

Temperature 1.3 °C + 0.5°C (CF) = 1.8 °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

Initial: [Signature]

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: [Signature]

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: [Signature]

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 checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient 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"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

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

250PB  250PBn  125PB  125PBz<sub>nna</sub>  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Summa® **Other:**  \_\_\_\_\_ **Trip Blank Lot#:** 101014A **Labeled/Checked by:** [Signature]

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

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> z<sub>nna</sub>: ZnAc<sub>2</sub>+NaOH f: Field-filtered **Scanned by:** [Signature]

**Ranjit Clarke**

---

**From:** Bart Gebbie [bgebbie@blainetech.com]  
**Sent:** Wednesday, January 12, 2011 9:53 AM  
**To:** Ranjit Clarke  
**Subject:** Re: COCs: Parsons - DFSP Norwalk

Yes, not needed.

---

From: Ranjit Clarke <RClarke@calscience.com>  
To: Bart Gebbie  
Sent: Wed Jan 12 09:41:49 2011  
Subject: COCs: Parsons - DFSP Norwalk

Bart,

Both COCs have "JP-5" analysis marked off for the TB and EB samples. Usually only VOCs is requested for these samples. I assume this was simply an oversight by the sampler (especially since no JP-5 bottles were provided for these samples). Please confirm.

Thanks,

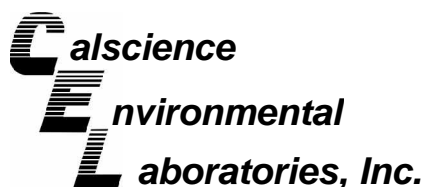
Ranjit Clarke  
Project Manager  
Calscience Environmental Laboratories, Inc.  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
Phone: 714-895-5494 x240  
Fax: 714-894-7501  
[RClarke@calscience.com](mailto:RClarke@calscience.com)

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The client or recipient of any attached analytical report is specifically prohibited from making material changes



January 18, 2011

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

Subject: **CalScience Work Order No.: 11-01-0568**  
**Client Reference: DFSP NORWALK / 746649**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/11/2011 and analyzed in accordance with the attached chain-of-custody.

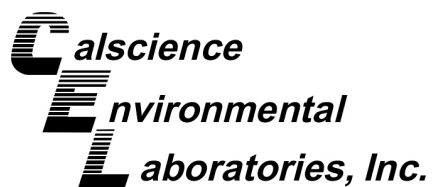
CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, 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



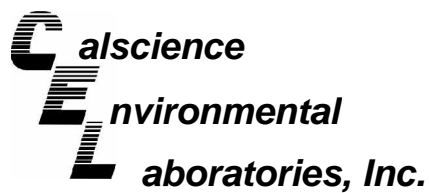
## Work Order Case Narrative

**Project Name:** DFSP NORWALK / 746649  
**CalScience Work Order Number:** 11-01-0568

1. EPA 8015B(M) – TPH as JP-5:

The COC associated with this SDG requested JP-5 analysis on all samples. Bottles for this analysis were not received for two samples ("TB-2" and "EB-2"). An e-mail was received from Blaine Tech on 01/12/11 confirming that JP-5 analysis was not required for these two samples.

A handwritten signature in black ink, appearing to be "M. J. ...", is located at the bottom left of the page.



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	11-01-0568-1-D	01/11/11 08:03	Aqueous	GC 27	01/12/11	01/13/11 20:26	110112B10

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	1600	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	68-140	

GMW-59	11-01-0568-2-D	01/11/11 08:52	Aqueous	GC 27	01/12/11	01/13/11 20:44	110112B10
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	4100	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	68-140	

GMW-60	11-01-0568-3-D	01/11/11 09:42	Aqueous	GC 27	01/12/11	01/13/11 21:02	110112B10
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	2100	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	68-140	

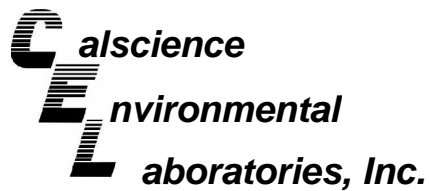
GMW-59 dup	11-01-0568-6-D	01/11/11 00:00	Aqueous	GC 27	01/12/11	01/13/11 21:20	110112B10
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	3900	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	68-140	

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





## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

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	099-12-366-74	N/A	Aqueous	GC 27	01/12/11	01/13/11 13:56	110112B10

<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: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-59</b>	<b>11-01-0568-2-J</b>	<b>01/11/11 08:52</b>	<b>Aqueous</b>	<b>GC 57</b>	<b>01/14/11</b>	<b>01/14/11 17:19</b>	<b>110114B01</b>

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	2500	200	2		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	132	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-60</b>	<b>11-01-0568-3-J</b>	<b>01/11/11 09:42</b>	<b>Aqueous</b>	<b>GC 57</b>	<b>01/14/11</b>	<b>01/14/11 17:53</b>	<b>110114B01</b>

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	3200	500	5		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	144	38-134	2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-247-4,808</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 57</b>	<b>01/14/11</b>	<b>01/14/11 11:08</b>	<b>110114B01</b>

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	

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

## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	11-01-0568-1-A	01/11/11 08:03	Aqueous	GC/MS Q	01/12/11	01/13/11 01:58	110112L02

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	5.2	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	0.75	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	17	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	6.1	10	2.5	1	J
sec-Butylbenzene	2.1	1.0	0.20	1		n-Propylbenzene	1.6	1.0	0.79	1	
tert-Butylbenzene	0.61	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		1,1,2,2-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)	1.2	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 Limits	Qual
Dibromofluoromethane	100	80-126		1,2-Dichloroethane-d4	101	80-134	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	98	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59	11-01-0568-2-A	01/11/11 08:52	Aqueous	GC/MS Q	01/12/11	01/13/11 04:44	110112L02

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	1100	5.0	2.8	10		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	1.1	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	24	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	0.60	1.0	0.28	1	J	Naphthalene	22	10	2.5	1	
sec-Butylbenzene	2.9	1.0	0.20	1		n-Propylbenzene	16	1.0	0.79	1	
tert-Butylbenzene	0.82	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		1,1,2,2-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)	8.8	0.50	0.30	1	
c-1,2-Dichloroethene	3.5	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	23	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 Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	103	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	100	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

Page 3 of 8


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	11-01-0568-3-A	01/11/11 09:42	Aqueous	GC/MS Q	01/12/11	01/13/11 05:12	110112L02

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	870	2.5	1.4	5		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	12	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	92	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	4.5	1.0	0.28	1		Naphthalene	130	10	2.5	1	
sec-Butylbenzene	12	1.0	0.20	1		n-Propylbenzene	94	1.0	0.79	1	
tert-Butylbenzene	1.8	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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	97	80-134	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	103	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-2	11-01-0568-4-A	01/11/11 07:00	Aqueous	GC/MS Q	01/12/11	01/13/11 01:02	110112L02

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	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	101	80-134	
Toluene-d8	98	80-120		1,4-Bromofluorobenzene	97	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	11-01-0568-5-A	01/11/11 09:55	Aqueous	GC/MS Q	01/12/11	01/13/11 01:30	110112L02

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	2.3	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 Limits	Qual
Dibromofluoromethane	101	80-126		1,2-Dichloroethane-d4	97	80-134	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	97	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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 dup	11-01-0568-6-A	01/11/11 00:00	Aqueous	GC/MS Q	01/12/11	01/13/11 06:07	110112L02

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	1100	5.0	2.8	10		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	25	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	1.0	1.0	0.28	1		Naphthalene	22	10	2.5	1	
sec-Butylbenzene	3.1	1.0	0.20	1		n-Propylbenzene	17	1.0	0.79	1	
tert-Butylbenzene	0.88	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		1,1,2,2-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)	8.3	0.50	0.30	1	
c-1,2-Dichloroethene	3.4	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	19	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 Limits	Qual
Dibromofluoromethane	100	80-126		1,2-Dichloroethane-d4	97	80-134	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	101	80-120	

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





## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

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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	099-14-001-3,316	N/A	Aqueous	GC/MS Q	01/12/11	01/13/11 00:34	110112L02

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	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		1,1,2,2-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 Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	96	80-134	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	95	80-120	

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



## Analytical Report



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

Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK / 746649

Page 8 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-3,324	N/A	Aqueous	GC/MS JJ	01/13/11	01/13/11 15:11	110113L01

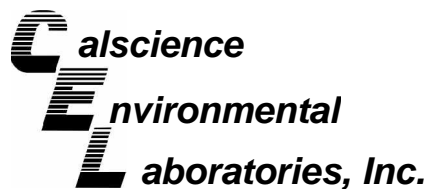
Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	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		1,1,2,2-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 Limits	Qual
Dibromofluoromethane	100	80-126		1,2-Dichloroethane-d4	97	80-134	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	99	80-120	

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





## Quality Control - Spike/Spike Duplicate



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

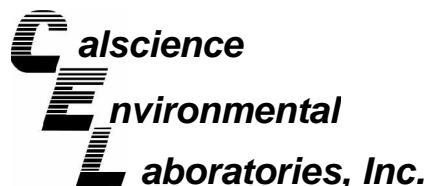
Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-0677-1	Aqueous	GC 57	01/14/11	01/14/11	110114S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	91	68-122	8	0-18	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

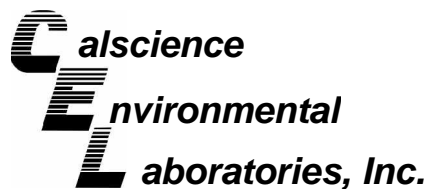
Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B

Project DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-47	Aqueous	GC/MS Q	01/12/11	01/13/11	110112S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	78-120	0	0-20	
Carbon Tetrachloride	99	101	67-139	2	0-20	
Chlorobenzene	101	99	80-120	2	0-20	
1,2-Dibromoethane	102	102	80-123	0	0-20	
1,2-Dichlorobenzene	102	100	76-120	2	0-20	
1,2-Dichloroethane	117	116	76-130	1	0-20	
1,1-Dichloroethene	100	104	70-130	3	0-27	
Ethylbenzene	101	100	73-127	1	0-20	
Toluene	104	103	72-126	1	0-20	
Trichloroethene	97	95	74-122	2	0-20	
Vinyl Chloride	100	102	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	99	98	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	108	117	65-131	8	0-22	
Diisopropyl Ether (DIPE)	95	96	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	99	100	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	99	100	70-124	0	0-20	
Ethanol	123	120	41-155	3	0-35	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

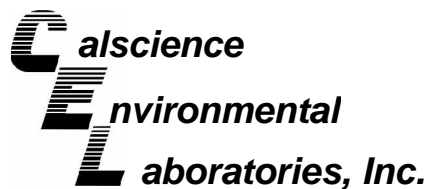
Date Received: 01/11/11  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B

Project DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-0644-2	Aqueous	GC/MS JJ	01/13/11	01/13/11	110113S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	95	78-120	0	0-20	
Carbon Tetrachloride	95	93	67-139	2	0-20	
Chlorobenzene	94	93	80-120	1	0-20	
1,2-Dibromoethane	94	95	80-123	1	0-20	
1,2-Dichlorobenzene	93	95	76-120	3	0-20	
1,2-Dichloroethane	92	93	76-130	1	0-20	
1,1-Dichloroethene	94	93	70-130	1	0-27	
Ethylbenzene	96	96	73-127	0	0-20	
Toluene	99	97	72-126	1	0-20	
Trichloroethene	92	91	74-122	2	0-20	
Vinyl Chloride	85	81	65-131	4	0-24	
Methyl-t-Butyl Ether (MTBE)	85	86	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	96	96	65-131	0	0-22	
Diisopropyl Ether (DIPE)	91	91	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	88	87	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	91	92	70-124	1	0-20	
Ethanol	70	66	41-155	5	0-35	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

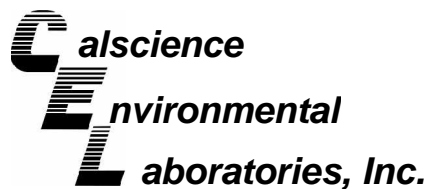
Date Received: N/A  
Work Order No: 11-01-0568  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-74	Aqueous	GC 27	01/12/11	01/13/11	110112B10

<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	100	101	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

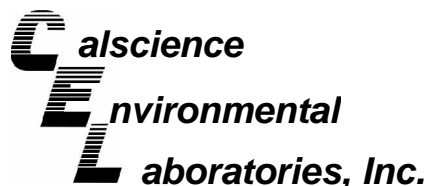
Date Received: N/A  
Work Order No: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-4,808	Aqueous	GC 57	01/14/11	01/14/11	110114B01

<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	103	95	78-120	8	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: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-3,316	Aqueous	GC/MS Q	01/12/11	01/12/11	110112L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	100	80-120	73-127	4	0-20	
Carbon Tetrachloride	100	100	66-138	54-150	0	0-20	
Chlorobenzene	97	101	80-120	73-127	4	0-20	
1,2-Dibromoethane	102	105	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	99	99	80-120	73-127	0	0-20	
1,2-Dichloroethane	114	116	80-129	72-137	2	0-20	
1,1-Dichloroethene	101	103	71-131	61-141	2	0-20	
Ethylbenzene	97	100	80-123	73-130	3	0-20	
Toluene	98	102	79-121	72-128	4	0-20	
Trichloroethene	99	104	80-120	73-127	5	0-20	
Vinyl Chloride	102	105	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	99	101	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	109	113	71-125	62-134	3	0-25	
Diisopropyl Ether (DIPE)	95	96	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	100	101	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	98	100	67-133	56-144	2	0-20	
Ethanol	138	118	47-155	29-173	15	0-36	

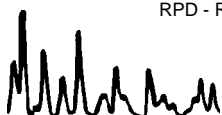
Total number of LCS compounds : 17

Total number of ME compounds : 0

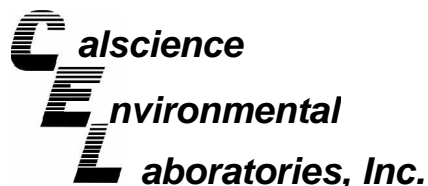
Total number of ME compounds allowed : 1

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: 11-01-0568  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP NORWALK / 746649

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
<b>099-14-001-3,324</b>	<b>Aqueous</b>	<b>GC/MS JJ</b>	<b>01/13/11</b>	<b>01/13/11</b>	<b>110113L01</b>		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	93	91	80-120	73-127	2	0-20	
Carbon Tetrachloride	94	93	66-138	54-150	2	0-20	
Chlorobenzene	90	91	80-120	73-127	1	0-20	
1,2-Dibromoethane	89	90	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	94	92	80-120	73-127	2	0-20	
1,2-Dichloroethane	90	90	80-129	72-137	1	0-20	
1,1-Dichloroethene	93	93	71-131	61-141	0	0-20	
Ethylbenzene	94	95	80-123	73-130	1	0-20	
Toluene	97	95	79-121	72-128	2	0-20	
Trichloroethene	92	92	80-120	73-127	0	0-20	
Vinyl Chloride	85	78	70-136	59-147	9	0-20	
Methyl-t-Butyl Ether (MTBE)	89	89	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	90	88	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	92	91	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	91	91	69-129	59-139	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	92	93	67-133	56-144	1	0-20	
Ethanol	70	67	47-155	29-173	4	0-36	

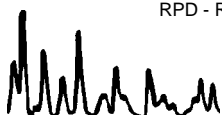
Total number of LCS compounds : 17

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

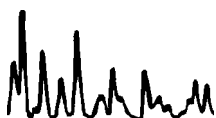


Work Order Number: 11-01-0568
 

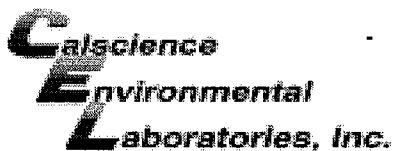
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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data 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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
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.
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.
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.







WORK ORDER #: 11-01-0568

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons

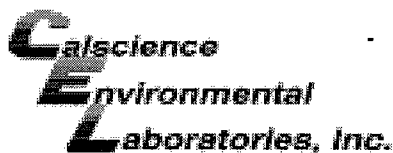
DATE: 01/11/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 2.5°C + 0.5°C (CF) = 3.0°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 Initial: YL

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

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...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours...
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#: 10103A Labeled/Checked by: bc
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: YL
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: YL



WORK ORDER #: 11-01-0568

## SAMPLE ANOMALY FORM

**SAMPLES - CONTAINERS & LABELS:**

- Sample(s)/Container(s) NOT RECEIVED but listed on COC
- Sample(s)/Container(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
  - Sample ID
  - Date and/or Time Collected
  - Project Information
  - # of Container(s)
  - Analysis
- Sample container(s) compromised – Note in comments
  - Water present in sample container
  - Broken
- Sample container(s) not labeled
- Air sample container(s) 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:**

(-4), (-5) received 3 vials w/HCL  
no JPS (EPA 8015) bottle  
received.

**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
4	B, C	3							

Comments: \_\_\_\_\_

\*Transferred at Client's request.

Initial / Date:   v.l  01/11/11

## Ranjit Clarke

---

**From:** Bart Gebbie [bgebbie@blainetech.com]  
**Sent:** Wednesday, January 12, 2011 9:53 AM  
**To:** Ranjit Clarke  
**Subject:** Re: COCs: Parsons - DFSP Norwalk

Yes, not needed.

---

From: Ranjit Clarke <RClarke@calscience.com>  
To: Bart Gebbie  
Sent: Wed Jan 12 09:41:49 2011  
Subject: COCs: Parsons - DFSP Norwalk

Bart,

Both COCs have "JP-5" analysis marked off for the TB and EB samples. Usually only VOCs is requested for these samples. I assume this was simply an oversight by the sampler (especially since no JP-5 bottles were provided for these samples). Please confirm.

Thanks,

Ranjit Clarke  
Project Manager  
Calscience Environmental Laboratories, Inc.  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
Phone: 714-895-5494 x240  
Fax: 714-894-7501  
[RClarke@calscience.com](mailto:RClarke@calscience.com)



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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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 01/13/11

Job: KMEP DFSP 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 :	<b>EXP-1</b>				
Lab ID :	CHH11011304-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/10/11 11:50	Surr: Nonane	98	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	01/14/11
		Surr: Toluene-d8	104	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	01/14/11
Client ID :	<b>EXP-2</b>				
Lab ID :	CHH11011304-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/10/11 12:26	Surr: Nonane	99	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	114	(70-130) %REC	01/14/11
		Surr: Toluene-d8	94	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	01/14/11
Client ID :	<b>EXP-3</b>				
Lab ID :	CHH11011304-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/10/11 13:05	Surr: Nonane	103	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	01/14/11
		Surr: Toluene-d8	100	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	01/14/11
Client ID :	<b>EXP-5</b>				
Lab ID :	CHH11011304-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/10/11 13:51	Surr: Nonane	79	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC	01/14/11
		Surr: Toluene-d8	98	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	01/14/11
Client ID :	<b>WCW-13</b>				
Lab ID :	CHH11011304-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/10/11 14:34	Surr: Nonane	100	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	01/14/11
		Surr: Toluene-d8	102	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	107	(70-130) %REC	01/14/11
Client ID :	<b>EB-1</b>				
Lab ID :	CHH11011304-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/10/11 15:00	Surr: Nonane	101	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	108	(70-130) %REC	01/14/11
		Surr: Toluene-d8	102	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	01/14/11



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---

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 • (714) 386-2901 / info@alpha-analytical.com

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*PS*

1/20/11

**Report Date**





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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-01A  
Client I.D. Number: TB-1

Sampled: 01/10/11 07:00  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	105	(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	104	(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*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-02A  
Client I.D. Number: EXP-1

Sampled: 01/10/11 11:50  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	104	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	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	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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1/20/11

Report Date

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-03A  
Client I.D. Number: EXP-2

Sampled: 01/10/11 12:26  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	114	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	94	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	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	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*

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Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-04A  
Client I.D. Number: EXP-3

Sampled: 01/10/11 13:05  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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)	0.95	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	0.73	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	107	(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	103	(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 • (714) 386-2901 / info@alpha-analytical.com

1/20/11

Report Date

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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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-05A  
Client I.D. Number: EXP-5

Sampled: 01/10/11 13:51  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	108	(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	103	(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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1/20/11

Report Date

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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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-06A  
Client I.D. Number: WCW-13

Sampled: 01/10/11 14:34  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	107	(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*

1/20/11

Report Date



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011304-07A  
Client I.D. Number: EB-1

Sampled: 01/10/11 15:00  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	108	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	101	(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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1/20/11

Report Date

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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

## VOC Sample Preservation Report

**Work Order:** CHH11011304

**Job:** KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11011304-01A	TB-1	Aqueous	2
11011304-02A	EXP-1	Aqueous	2
11011304-03A	EXP-2	Aqueous	2
11011304-04A	EXP-3	Aqueous	2
11011304-05A	EXP-5	Aqueous	2
11011304-06A	WCW-13	Aqueous	2
11011304-07A	EB-1	Aqueous	2

1/20/11  
**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:  
18-Jan-2011

## QC Summary Report

Work Order:  
11011304

### Method Blank

File ID: 7A01141106.D

Sample ID: MBLK-25806

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.136		0.15		91	57	147			

### Laboratory Control Spike

File ID: 7A01141107.D

Sample ID: LCS-25806

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.46	0.05	2.5		98	67	130			
Surr: Nonane	0.156		0.15		104	57	147			

### Sample Matrix Spike

File ID: 7A01141109.D

Sample ID: 11011306-02AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.01	0.05	2.5	0	120	49	150			
Surr: Nonane	0.181		0.15		121	57	147			

### Sample Matrix Spike Duplicate

File ID: 7A01141110.D

Sample ID: 11011306-02AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.7	0.05	2.5	0	108	49	150	3.012	10.9(38)	
Surr: Nonane	0.188		0.15		125	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:  
18-Jan-2011

## QC Summary Report

Work Order:  
11011304

### Method Blank

Type MBLK		Test Code: EPA Method SW8015								
File ID: C:\HPCHEM\MS07\DATA\110114\11011406.D		Batch ID: MS07W0114B			Analysis Date: 01/14/2011 08:49					
Sample ID: MBLK MS07W0114B	Units: mg/L	Run ID: MSD_07_110114A			Prep Date: 01/14/2011 08:49					
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	0.0103		0.01		103	70	130			
Surr: Toluene-d8	0.00993		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

### Laboratory Control Spike

Type LCS		Test Code: EPA Method SW8015								
File ID: C:\HPCHEM\MS07\DATA\110114\11011404.D		Batch ID: MS07W0114B			Analysis Date: 01/14/2011 08:01					
Sample ID: GLCS MS07W0114B	Units: mg/L	Run ID: MSD_07_110114A			Prep Date: 01/14/2011 08:01					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.377	0.05	0.4		94	70	130			
Surr: 1,2-Dichloroethane-d4	0.00989		0.01		99	70	130			
Surr: Toluene-d8	0.00934		0.01		93	70	130			
Surr: 4-Bromofluorobenzene	0.0103		0.01		103	70	130			

### Sample Matrix Spike

Type MS		Test Code: EPA Method SW8015								
File ID: C:\HPCHEM\MS07\DATA\110114\11011411.D		Batch ID: MS07W0114B			Analysis Date: 01/14/2011 10:48					
Sample ID: 11011304-02AGS	Units: mg/L	Run ID: MSD_07_110114A			Prep Date: 01/14/2011 10:48					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.08	0.25	2	0	104	58	135			
Surr: 1,2-Dichloroethane-d4	0.0526		0.05		105	70	130			
Surr: Toluene-d8	0.0461		0.05		92	70	130			
Surr: 4-Bromofluorobenzene	0.0514		0.05		103	70	130			

### Sample Matrix Spike Duplicate

Type MSD		Test Code: EPA Method SW8015								
File ID: C:\HPCHEM\MS07\DATA\110114\11011412.D		Batch ID: MS07W0114B			Analysis Date: 01/14/2011 11:12					
Sample ID: 11011304-02AGSD	Units: mg/L	Run ID: MSD_07_110114A			Prep Date: 01/14/2011 11:12					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.88	0.25	2	0	94	58	135	2.085	10.5(20)	
Surr: 1,2-Dichloroethane-d4	0.0486		0.05		97	70	130			
Surr: Toluene-d8	0.0499		0.05		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.0516		0.05		103	70	130			

### Comments:

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Date:  
18-Jan-2011

## QC Summary Report

Work Order:  
11011304

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	10.3	10	103	70	130	
Surr: Toluene-d8	9.93	10	99	70	130	
Surr: 4-Bromofluorobenzene	10.5	10	105	70	130	

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\110114\11011403.D

Batch ID: MS07W0114A

Analysis Date: 01/14/2011 07:37

Sample ID: LCS MS07W0114A

Units: µg/L

Run ID: MSD\_07\_110114A

Prep Date: 01/14/2011 07:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.97	1	10		99.7	80	120			
Methyl tert-butyl ether (MTBE)	7.74	0.5	10		77	62	136			
Benzene	10.3	0.5	10		103	70	130			
Trichloroethene	9.8	1	10		98	70	130			
Toluene	9.92	0.5	10		99	80	120			
Chlorobenzene	9.3	1	10		93	70	130			
Ethylbenzene	9.64	0.5	10		96	80	120			
m,p-Xylene	9.7	0.5	10		97	70	130			
o-Xylene	10.8	0.5	10		108	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.76		10		98	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\110114\11011409.D

Batch ID: MS07W0114A

Analysis Date: 01/14/2011 10:01

Sample ID: 11011304-02AMS

Units: µg/L

Run ID: MSD\_07\_110114A

Prep Date: 01/14/2011 10:01

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	56.8	2.5	50	0	114	60	130			
Methyl tert-butyl ether (MTBE)	44.8	1.3	50	0	90	56	141			
Benzene	54	1.3	50	0	108	67	130			
Trichloroethene	48.9	2.5	50	0	98	69	130			
Toluene	47	1.3	50	0	94	66	130			
Chlorobenzene	44.7	2.5	50	0	89	70	130			
Ethylbenzene	46	1.3	50	0	92	68	130			
m,p-Xylene	46.2	1.3	50	0	92	64	130			
o-Xylene	52.7	1.3	50	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	53.8		50		108	70	130			
Surr: Toluene-d8	46.2		50		92	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\110114\11011410.D

Batch ID: MS07W0114A

Analysis Date: 01/14/2011 10:25

Sample ID: 11011304-02AMSD

Units: µg/L

Run ID: MSD\_07\_110114A

Prep Date: 01/14/2011 10:25

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	58.4	2.5	50	0	117	60	130	56.82	2.7(20)	
Methyl tert-butyl ether (MTBE)	46.1	1.3	50	0	92	56	141	44.82	2.9(20)	
Benzene	55.5	1.3	50	0	111	67	130	54.04	2.6(20)	
Trichloroethene	51	2.5	50	0	102	69	130	48.89	4.2(20)	
Toluene	49.3	1.3	50	0	99	66	130	46.95	4.9(20)	
Chlorobenzene	46.8	2.5	50	0	94	70	130	44.67	4.6(20)	
Ethylbenzene	48.1	1.3	50	0	96	68	130	45.95	4.5(20)	
m,p-Xylene	48.5	1.3	50	0	97	64	130	46.24	4.8(20)	
o-Xylene	54.5	1.3	50	0	109	70	130	52.67	3.5(20)	
Surr: 1,2-Dichloroethane-d4	54.1		50		108	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	48.6		50		97	70	130			



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**Date:**

18-Jan-2011

## QC Summary Report

**Work Order:**

11011304

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**Comments:**

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# 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 : CHHL11011304**  
**Report Due By : 5:00 PM On : 21-Jan-2011**

**Client:**  
 CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention	Phone Number	EMail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : No

Sampled by : T. Rhymes

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

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
2 °C	13-Jan-2011	13-Jan-2011

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W						
CHH11011304-01A	TB-1	AQ	01/10/11 07:00	2	0	6			TPHE(0.10) +Vinyl acetate						Reno Trip Blank 12/21/10
CHH11011304-02A	EXP-1	AQ	01/10/11 11:50	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011304-03A	EXP-2	AQ	01/10/11 12:26	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011304-04A	EXP-3	AQ	01/10/11 13:05	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011304-05A	EXP-5	AQ	01/10/11 13:51	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011304-06A	WCW-13	AQ	01/10/11 14:34	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011304-07A	EB-1	AQ	01/10/11 15:00	8	0	6	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
<i>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	1/13/11 12:48

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 1

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

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AQ= Water	#	Preservation	Type												
TB-1	1.10.11	5750	AQ	2	HCl	VSA		X										CHH11011304
EXP-1		1150		8				X	X									-01
EXP-2		1226		8				X	X									-02
EXP-3		1305		8				X	X									-03
EXP-5		1351		8				X	X									-04
WCW-13		1434		8				X	X									-05
EB-1		1500		8				X	X									-06
																		-07

SAMPLING COMPLETED | DATE 1.10.11 | TIME 1520 | SAMPLING PERFORMED BY T. R. THUMES | RESULTS NEEDED NO LATER THAN Standard

RELEASED BY | TIME 1600 | RECEIVED BY | DATE 1.10.11 | TIME 1600

RELEASED BY | TIME 1600 | RECEIVED BY | DATE 1.12.11 | TIME 1600

RELEASED BY | TIME 1600 | RECEIVED BY | DATE 1.13.11 | TIME 1248

SHIPPED VIA | TIME SENT | COOLER #



# 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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 01/13/11

Job: KMEP DFSP Norwalk

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

Client ID	Lab ID	Date Sampled	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : <b>TB-1</b>	Lab ID : CHH11011305-01A	Date Sampled 01/11/11 07:00	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11	01/14/11
			Surr: Nonane	88	(57-147) %REC	01/14/11	01/14/11
			TPH-P (GRO)	ND	0.050 mg/L	01/18/11	01/18/11
			Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/18/11	01/18/11
			Surr: Toluene-d8	102	(70-130) %REC	01/18/11	01/18/11
			Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/18/11	01/18/11
Client ID : <b>EB-2</b>	Lab ID : CHH11011305-02A	Date Sampled 01/11/11 14:30	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11	01/14/11
			Surr: Nonane	94	(57-147) %REC	01/14/11	01/14/11
			TPH-P (GRO)	ND	0.050 mg/L	01/18/11	01/18/11
			Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/18/11	01/18/11
			Surr: Toluene-d8	101	(70-130) %REC	01/18/11	01/18/11
			Surr: 4-Bromofluorobenzene	101	(70-130) %REC	01/18/11	01/18/11
Client ID : <b>GMW-39</b>	Lab ID : CHH11011305-03A	Date Sampled 01/11/11 14:05	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11	01/14/11
			Surr: Nonane	102	(57-147) %REC	01/14/11	01/14/11
			TPH-P (GRO)	ND	0.050 mg/L	01/18/11	01/18/11
			Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	01/18/11	01/18/11
			Surr: Toluene-d8	104	(70-130) %REC	01/18/11	01/18/11
			Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/18/11	01/18/11
Client ID : <b>GMW-38</b>	Lab ID : CHH11011305-04A	Date Sampled 01/11/11 13:22	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11	01/14/11
			Surr: Nonane	106	(57-147) %REC	01/14/11	01/14/11
			TPH-P (GRO)	ND	0.050 mg/L	01/18/11	01/18/11
			Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/18/11	01/18/11
			Surr: Toluene-d8	102	(70-130) %REC	01/18/11	01/18/11
			Surr: 4-Bromofluorobenzene	102	(70-130) %REC	01/18/11	01/18/11
Client ID : <b>GMW-O-19</b>	Lab ID : CHH11011305-05A	Date Sampled 01/11/11 12:16	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11	01/14/11
			Surr: Nonane	98	(57-147) %REC	01/14/11	01/14/11
			TPH-P (GRO)	ND	0.050 mg/L	01/18/11	01/18/11
			Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	01/18/11	01/18/11
			Surr: Toluene-d8	101	(70-130) %REC	01/18/11	01/18/11
			Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/18/11	01/18/11
Client ID : <b>GMW-O-16</b>	Lab ID : CHH11011305-06A	Date Sampled 01/11/11 11:44	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11	01/14/11
			Surr: Nonane	90	(57-147) %REC	01/14/11	01/14/11
			TPH-P (GRO)	ND	0.050 mg/L	01/18/11	01/18/11
			Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	01/18/11	01/18/11
			Surr: Toluene-d8	102	(70-130) %REC	01/18/11	01/18/11
			Surr: 4-Bromofluorobenzene	100	(70-130) %REC	01/18/11	01/18/11





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Client ID :	<b>GMW-O-14</b>						
Lab ID :	CHH11011305-07A	TPH-E (Fuel Product)	11	**	0.10 mg/L	01/14/11	01/14/11
Date Sampled	01/11/11 11:04	Surr: Nonane	0	S50	(57-147) %REC	01/14/11	01/14/11
		TPH-P (GRO)	49		10 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	97		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	01/18/11	01/18/11
Client ID :	<b>DUP-1</b>						
Lab ID :	CHH11011305-08A	TPH-E (Fuel Product)	14	**	0.10 mg/L	01/14/11	01/14/11
Date Sampled	01/11/11 00:00	Surr: Nonane	0	S50	(57-147) %REC	01/14/11	01/14/11
		TPH-P (GRO)	54		10 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	97		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	01/18/11	01/18/11
Client ID :	<b>GMW-O-3</b>						
Lab ID :	CHH11011305-09A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/14/11	01/14/11
Date Sampled	01/11/11 10:27	Surr: Nonane	102		(57-147) %REC	01/14/11	01/14/11
		TPH-P (GRO)	ND		0.050 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	102		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	01/18/11	01/18/11
Client ID :	<b>GMW-O-2</b>						
Lab ID :	CHH11011305-10A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/14/11	01/14/11
Date Sampled	01/11/11 09:49	Surr: Nonane	105		(57-147) %REC	01/14/11	01/14/11
		TPH-P (GRO)	ND		0.050 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	101		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	01/18/11	01/18/11
Client ID :	<b>GMW-O-1</b>						
Lab ID :	CHH11011305-11A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/14/11	01/14/11
Date Sampled	01/11/11 09:16	Surr: Nonane	107		(57-147) %REC	01/14/11	01/14/11
		TPH-P (GRO)	ND		0.050 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	101		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	01/18/11	01/18/11
Client ID :	<b>WCW-7</b>						
Lab ID :	CHH11011305-12A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/14/11	01/15/11
Date Sampled	01/11/11 08:38	Surr: Nonane	107		(57-147) %REC	01/14/11	01/15/11
		TPH-P (GRO)	ND		0.050 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	103		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	01/18/11	01/18/11
Client ID :	<b>WCW-3</b>						
Lab ID :	CHH11011305-13A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/14/11	01/15/11
Date Sampled	01/11/11 07:56	Surr: Nonane	100		(57-147) %REC	01/14/11	01/15/11
		TPH-P (GRO)	ND		0.050 mg/L	01/18/11	01/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	01/18/11	01/18/11
		Surr: Toluene-d8	102		(70-130) %REC	01/18/11	01/18/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	01/18/11	01/18/11



# Alpha Analytical, Inc.

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

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\*\*Note: Reported TPH-E (Fuel Product) may contain undifferentiated 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 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 • (714) 386-2901 / [info@alpha-analytical.com](mailto:info@alpha-analytical.com)

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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.

1/20/11

**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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-01A  
Client I.D. Number: TB-1

Sampled: 01/11/11 07:00  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### Volatiles 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	96	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(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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1/20/11

Report Date

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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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-02A  
Client I.D. Number: EB-2

Sampled: 01/11/11 14:30  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	96	(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	101	(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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1/20/11

Report Date

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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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-03A  
Client I.D. Number: GMW-39

Sampled: 01/11/11 14:05  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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)	68	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	97	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(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  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*JAG*  
1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-04A  
Client I.D. Number: GMW-38

Sampled: 01/11/11 13:22  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	96	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	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	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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1/20/11

Report Date

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# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-05A  
Client I.D. Number: GMW-O-19

Sampled: 01/11/11 12:16  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	98	(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	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 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 • (714) 386-2901 / 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*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-06A  
Client I.D. Number: GMW-O-16

Sampled: 01/11/11 11:44  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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)	0.94	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	98	(70-130) %REC
28 Benzene	0.52	0.50 µg/L	72 Surr: Toluene-d8	102	(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 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 • (714) 386-2901 / info@alpha-analytical.com

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

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1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-07A  
Client I.D. Number: GMW-O-14

Sampled: 01/11/11 11:04  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	1,400	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	2,700	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Styrene	ND	100 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 o-Xylene	1,800	50 µg/L
7 Acetone	2,000	µg/L	51 1,1,2,2-Tetrachloroethane	ND	100 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,2,3-Trichloropropane	ND	400 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 Isopropylbenzene	ND	100 µg/L
10 Dichloromethane	ND	400 µg/L	54 Bromobenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 n-Propylbenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 4-Chlorotoluene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 2-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	50 µg/L	58 1,3,5-Trimethylbenzene	140	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 tert-Butylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 1,2,4-Trimethylbenzene	690	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 sec-Butylbenzene	ND	100 µg/L
18 Di-isopropyl Ether (DIPE)	190	µg/L	62 1,3-Dichlorobenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,4-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 4-Isopropyltoluene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 1,2-Dichlorobenzene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 n-Butylbenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
24 1,2-Dichloroethane	120	µg/L	68 1,2,4-Trichlorobenzene	ND	400 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 Naphthalene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 1,2,3-Trichlorobenzene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
28 Benzene	12,000	µg/L	72 Surr: Toluene-d8	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	100 µg/L			
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	5,500	µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 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  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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*PS*  
1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-08A  
Client I.D. Number: DUP-1

Sampled: 01/11/11 00:00  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	1,500	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	3,000	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Styrene	ND	100 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 o-Xylene	2,000	50 µg/L
7 Acetone	2,000	µg/L	51 1,1,2,2-Tetrachloroethane	ND	100 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,2,3-Trichloropropane	ND	400 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 Isopropylbenzene	ND	100 µg/L
10 Dichloromethane	ND	400 µg/L	54 Bromobenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 n-Propylbenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 4-Chlorotoluene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 2-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	50 µg/L	58 1,3,5-Trimethylbenzene	150	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 tert-Butylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 1,2,4-Trimethylbenzene	760	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 sec-Butylbenzene	ND	100 µg/L
18 Di-isopropyl Ether (DIPE)	200	µg/L	62 1,3-Dichlorobenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,4-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 4-Isopropyltoluene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 1,2-Dichlorobenzene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 n-Butylbenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
24 1,2-Dichloroethane	120	µg/L	68 1,2,4-Trichlorobenzene	ND	400 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 Naphthalene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 1,2,3-Trichlorobenzene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
28 Benzene	13,000	µg/L	72 Surr: Toluene-d8	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	100 µg/L			
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	6,000	µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	1,000 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

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

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-09A  
Client I.D. Number: GMW-O-3

Sampled: 01/11/11 10:27  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	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	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(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  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / 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.

*[Signature]*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMFP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-10A  
Client I.D. Number: GMW-O-2

Sampled: 01/11/11 09:49  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	100	(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	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 Hinckman*

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*[Signature]*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-11A  
Client I.D. Number: GMW-O-1

Sampled: 01/11/11 09:16  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	100	(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	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 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 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*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-12A  
Client I.D. Number: WCW-7

Sampled: 01/11/11 08:38  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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)	1.4	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)	3.3	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	25	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	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(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 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]*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011305-13A  
Client I.D. Number: WCW-3

Sampled: 01/11/11 07:56  
Received: 01/13/11  
Extracted: 01/18/11  
Analyzed: 01/18/11

### 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	3.3	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	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	101	(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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1/20/11

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: CHH11011305

Job: KMEP DFSP Norwalk

---

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11011305-01A	TB-1	Aqueous	2
11011305-02A	EB-2	Aqueous	2
11011305-03A	GMW-39	Aqueous	2
11011305-04A	GMW-38	Aqueous	2
11011305-05A	GMW-O-19	Aqueous	2
11011305-06A	GMW-O-16	Aqueous	2
11011305-07A	GMW-O-14	Aqueous	4
11011305-08A	DUP-1	Aqueous	2
11011305-09A	GMW-O-3	Aqueous	5
11011305-10A	GMW-O-2	Aqueous	2
11011305-11A	GMW-O-1	Aqueous	2
11011305-12A	WCW-7	Aqueous	2
11011305-13A	WCW-3	Aqueous	2

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1/20/11  
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:  
19-Jan-11

## QC Summary Report

Work Order:  
11011305

### Method Blank

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

File ID: **2A01141106.D**

Batch ID: **25812**

Analysis Date: **01/14/2011 16:00**

Sample ID: **MBLK-25812**

Units : **mg/L**

Run ID: **FID\_1\_110114A**

Prep Date: **01/14/2011 13:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.148		0.15		99	57	147			

### Laboratory Control Spike

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

File ID: **2A01141107.D**

Batch ID: **25812**

Analysis Date: **01/14/2011 16:25**

Sample ID: **LCS-25812**

Units : **mg/L**

Run ID: **FID\_1\_110114A**

Prep Date: **01/14/2011 13:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.55	0.05	2.5		102	67	130			
Surr: Nonane	0.157		0.15		105	57	147			

### Sample Matrix Spike

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

File ID: **2A01141110.D**

Batch ID: **25812**

Analysis Date: **01/14/2011 17:42**

Sample ID: **11011305-02AMSD**

Units : **mg/L**

Run ID: **FID\_1\_110114A**

Prep Date: **01/14/2011 13:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.9	0.05	2.5	0	116	49	150			
Surr: Nonane	0.163		0.15		109	57	147			

### Sample Matrix Spike Duplicate

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

File ID: **2A01141111.D**

Batch ID: **25812**

Analysis Date: **01/14/2011 18:08**

Sample ID: **11011305-02AMSD**

Units : **mg/L**

Run ID: **FID\_1\_110114A**

Prep Date: **01/14/2011 13:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.08	0.05	2.5	0	123	49	150	2.902	5.9(38)	
Surr: Nonane	0.164		0.15		109	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:  
19-Jan-11

## QC Summary Report

Work Order:  
11011305

### Method Blank

Method Blank		Type	Test Code: EPA Method SW8015							
File ID: 11011811.D		MBLK	Batch ID: MS15W0118B				Analysis Date: 01/18/2011 10:10			
Sample ID:	MBLK MS15W0118B	Units : mg/L	Run ID: MSD_15_110118A			Prep Date: 01/18/2011 10:10				
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	0.00915		0.01		92	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

### Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015							
File ID: 11011808.D		LCS	Batch ID: MS15W0118B				Analysis Date: 01/18/2011 08:55			
Sample ID:	GLCS MS15W0118B	Units : mg/L	Run ID: MSD_15_110118A			Prep Date: 01/18/2011 08:55				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.397	0.05	0.4		99	70	130			
Surr: 1,2-Dichloroethane-d4	0.00949		0.01		95	70	130			
Surr: Toluene-d8	0.0097		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00993		0.01		99	70	130			

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015							
File ID: 11011817.D		MS	Batch ID: MS15W0118B				Analysis Date: 01/18/2011 12:19			
Sample ID:	11011305-03AGS	Units : mg/L	Run ID: MSD_15_110118A			Prep Date: 01/18/2011 12:19				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.89	0.25	2	0	94	58	135			
Surr: 1,2-Dichloroethane-d4	0.0493		0.05		99	70	130			
Surr: Toluene-d8	0.049		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0521		0.05		104	70	130			

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015							
File ID: 11011818.D		MSD	Batch ID: MS15W0118B				Analysis Date: 01/18/2011 12:41			
Sample ID:	11011305-03AGSD	Units : mg/L	Run ID: MSD_15_110118A			Prep Date: 01/18/2011 12:41				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.89	0.25	2	0	94	58	135	1.889	0.0(20)	
Surr: 1,2-Dichloroethane-d4	0.0486		0.05		97	70	130			
Surr: Toluene-d8	0.0489		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0501		0.05		100	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.

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

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

Date:  
19-Jan-11

## QC Summary Report

Work Order:  
11011305

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	9.15		10	92	70	130
Surr: Toluene-d8	10.2		10	102	70	130
Surr: 4-Bromofluorobenzene	10.2		10	102	70	130

### Laboratory Control Spike

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

File ID: **11011807.D**

Batch ID: **MS15W0118A**

Analysis Date: **01/18/2011 08:34**

Sample ID: **LCS MS15W0118A**

Units : **µg/L**

Run ID: **MSD\_15\_110118A**

Prep Date: **01/18/2011 08:34**

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)	8.7	0.5	10		87	62	136			
Benzene	10	0.5	10		100	70	130			
Trichloroethene	10.2	1	10		102	70	130			
Toluene	9.85	0.5	10		99	80	120			
Chlorobenzene	9.75	1	10		98	70	130			
Ethylbenzene	10	0.5	10		100	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10	0.5	10		100	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10		91	70	130			
Surr: Toluene-d8	9.79		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

### Sample Matrix Spike

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

File ID: **11011815.D**

Batch ID: **MS15W0118A**

Analysis Date: **01/18/2011 11:36**

Sample ID: **11011305-03AMS**

Units : **µg/L**

Run ID: **MSD\_15\_110118A**

Prep Date: **01/18/2011 11:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50	2.5	50	0	100	60	130			
Methyl tert-butyl ether (MTBE)	47.3	1.3	50	0	95	56	141			
Benzene	48.8	1.3	50	0	98	67	130			
Trichloroethene	48.5	2.5	50	0	97	69	130			
Toluene	47.7	1.3	50	0	95	66	130			
Chlorobenzene	47.2	2.5	50	0	94	70	130			
Ethylbenzene	48.1	1.3	50	0	96	68	130			
m,p-Xylene	49.6	1.3	50	0	99	64	130			
o-Xylene	48.2	1.3	50	0	96	70	130			
Surr: 1,2-Dichloroethane-d4	47.2		50		94	70	130			
Surr: Toluene-d8	50		50		100	70	130			
Surr: 4-Bromofluorobenzene	51.5		50		103	70	130			

### Sample Matrix Spike Duplicate

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

File ID: **11011816.D**

Batch ID: **MS15W0118A**

Analysis Date: **01/18/2011 11:58**

Sample ID: **11011305-03AMSD**

Units : **µg/L**

Run ID: **MSD\_15\_110118A**

Prep Date: **01/18/2011 11:58**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	51.8	2.5	50	0	104	60	130	50.03	3.4(20)	
Methyl tert-butyl ether (MTBE)	48.8	1.3	50	0	98	56	141	47.31	3.1(20)	
Benzene	50.1	1.3	50	0	100	67	130	48.8	2.7(20)	
Trichloroethene	50.5	2.5	50	0	101	69	130	48.47	4.1(20)	
Toluene	49.1	1.3	50	0	98	66	130	47.73	2.9(20)	
Chlorobenzene	48.7	2.5	50	0	97	70	130	47.15	3.3(20)	
Ethylbenzene	50.2	1.3	50	0	100	68	130	48.07	4.4(20)	
m,p-Xylene	51.5	1.3	50	0	103	64	130	49.6	3.8(20)	
o-Xylene	49.9	1.3	50	0	99.8	70	130	48.18	3.5(20)	
Surr: 1,2-Dichloroethane-d4	48		50		96	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	51		50		102	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:**  
19-Jan-11

## QC Summary Report

**Work Order:**  
11011305

**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.

# 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 : CHHL11011305**  
**Report Due By : 5:00 PM On : 21-Jan-2011**

**Client:**  
 CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention	Phone Number	E Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : No

Sampled by : T. Rhymes

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

Cooler Temp	Samples Received	Date Printed
3 °C	13-Jan-2011	13-Jan-2011

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha	No. of Bottles Sub	TAT	Requested Tests			Sample Remarks
						TPHE_W	TPHE_P_W	VOC_W	
CHH11011305-01A	TB-1	AQ 01/11/11 07:00	2	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	Reno Trip Blank 12/21/10
CHH11011305-02A	EB-2	AQ 01/11/11 14:30	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
CHH11011305-03A	GMW-39	AQ 01/11/11 14:05	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
CHH11011305-04A	GMW-38	AQ 01/11/11 13:22	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
CHH11011305-05A	GMW-O-19	AQ 01/11/11 12:16	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
CHH11011305-06A	GMW-O-16	AQ 01/11/11 11:44	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
CHH11011305-07A	GMW-O-14	AQ 01/11/11 11:04	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	
CHH11011305-08A	DUP-1	AQ 01/11/11 00:00	8	0	6	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
<i>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	1/13/11 1150

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 : CHHL11011305**  
**Report Due By : 5:00 PM On : 21-Jan-2011**

**Client:**  
 CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : No

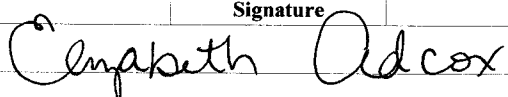
Sampled by : T. Rhymes

**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
3 °C	13-Jan-2011	13-Jan-2011

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W						
CHH11011305-09A	GMW-O-3	AQ	01/11/11 10:27	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
CHH11011305-10A	GMW-O-2	AQ	01/11/11 09:49	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
CHH11011305-11A	GMW-O-1	AQ	01/11/11 09:16	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
CHH11011305-12A	WCW-7	AQ	01/11/11 08:38	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
CHH11011305-13A	WCW-3	AQ	01/11/11 07:56	8	0	6	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 by:	Signature	Print Name	Company	Date/Time
		Elizabeth Adcox	Alpha Analytical, Inc.	1-13-11 1150

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:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

### CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

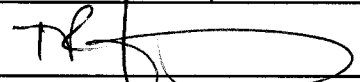

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

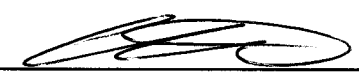
SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AQ= Water	#	Preservation	Type												
TB-1	1-11-11	0700	AQ	2	HCl	VOL	X	X										01
EB-2		1430		3			X	X										02
GMW-39		1405					X	X										03
GMW-38		1322					X	X										04
GMW-0-19		1216					X	X										05
GMW-0-16		1144					X	X										06
GMW-0-14		1104					X	X										07
DUP-1		-					X	X										08
GMW-0-3		1027					X	X										09
GMW-0-2		0949					X	X										10

CHH 11011305

SAMPLING COMPLETED DATE: 1-11-11 TIME: 1500 SAMPLING PERFORMED BY: T. RHYMES RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY:  TIME: 1545 RECEIVED BY:  DATE: 1-11-11 TIME: 1545

RELEASED BY:  TIME: 1600 RECEIVED BY:  DATE: 1-12-11 TIME: 1600

RELEASED BY:  TIME: 1600 RECEIVED BY:  DATE: 1-13-11 TIME: 1150

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:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

TPHg, TPHfp (EPA 8015M)

VOC's & Oxygenates (EPA 8260B)

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)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #	
				#	Preservation	Type													
GMW-01	1-11-11	0910	AQ	3	HCl	VOP	X	X											-11
WCW-7	↓	0938	↓	↓	↓	↓	X	X											-12
WCW-3	↓	0756	↓	↓	↓	↓	X	X											-13

SAMPLING COMPLETED: DATE 1-11-11 TIME 1500  
 SAMPLING PERFORMED BY: T. RHYMES

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY: [Signature] TIME 1545 RECEIVED BY: [Signature] DATE 1-11-11 TIME 1545

RELEASED BY: [Signature] TIME 1600 RECEIVED BY: [Signature] DATE 1-12-11 TIME 1600

RELEASED BY: [Signature] TIME 1600 RECEIVED BY: Elizabeth Adcox DATE 1-13-11 TIME 1150

SHIPPED VIA: TIME SENT COOLER #



# 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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 01/13/11

Job: KMEP DFSP 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 :	<b>EB-3</b>				
Lab ID :	CHH11011306-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/14/11
Date Sampled	01/12/11 12:15	Surr: Nonane	98	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND	0.050 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	114	(70-130) %REC	01/14/11
		Surr: Toluene-d8	96	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	01/14/11
Client ID :	<b>GMW-36</b>				
Lab ID :	CHH11011306-03A	TPH-E (Fuel Product)	130 **	2.0 mg/L	01/14/11
Date Sampled	01/12/11 11:37	Surr: Nonane	0 S50	(57-147) %REC	01/14/11
		TPH-P (GRO)	320	20 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	109	(70-130) %REC	01/14/11
		Surr: Toluene-d8	92	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/14/11
Client ID :	<b>GMW-O-15</b>				
Lab ID :	CHH11011306-04A	TPH-E (Fuel Product)	15 **	1.0 mg/L	01/14/11
Date Sampled	01/12/11 10:42	Surr: Nonane	0 S50	(57-147) %REC	01/14/11
		TPH-P (GRO)	12	2.0 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	01/14/11
		Surr: Toluene-d8	97	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	01/14/11
Client ID :	<b>PZ-5</b>				
Lab ID :	CHH11011306-05A	TPH-E (Fuel Product)	1.2 **	0.10 mg/L	01/14/11
Date Sampled	01/12/11 09:58	Surr: Nonane	103	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND V	4.0 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	01/14/11
		Surr: Toluene-d8	99	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	01/14/11
Client ID :	<b>DUP-3</b>				
Lab ID :	CHH11011306-06A	TPH-E (Fuel Product)	1.2 **	0.10 mg/L	01/14/11
Date Sampled	01/12/11 00:00	Surr: Nonane	107	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND V	4.0 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	01/14/11
		Surr: Toluene-d8	95	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/14/11
Client ID :	<b>GMW-O-18</b>				
Lab ID :	CHH11011306-07A	TPH-E (Fuel Product)	0.13 *	0.10 mg/L	01/14/11
Date Sampled	01/12/11 09:21	Surr: Nonane	103	(57-147) %REC	01/14/11
		TPH-P (GRO)	ND V	3.0 mg/L	01/14/11
		Surr: 1,2-Dichloroethane-d4	117	(70-130) %REC	01/14/11
		Surr: Toluene-d8	94	(70-130) %REC	01/14/11
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	01/14/11



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Client ID:	<b>MW-SF-4</b>					
Lab ID:	CHH11011306-08A	TPH-E (Fuel Product)	18	*	1.0 mg/L	01/14/11 01/15/11
Date Sampled	01/12/11 08:35	Surr: Nonane	142		(57-147) %REC	01/14/11 01/15/11
		TPH-P (GRO)	20		10 mg/L	01/14/11 01/14/11
		Surr: 1,2-Dichloroethane-d4	118		(70-130) %REC	01/14/11 01/14/11
		Surr: Toluene-d8	95		(70-130) %REC	01/14/11 01/14/11
		Surr: 4-Bromofluorobenzene	103		(70-130) %REC	01/14/11 01/14/11
Client ID:	<b>DUP-2</b>					
Lab ID:	CHH11011306-09A	TPH-E (Fuel Product)	21	*	1.0 mg/L	01/14/11 01/15/11
Date Sampled	01/12/11 00:00	Surr: Nonane	0	S50	(57-147) %REC	01/14/11 01/15/11
		TPH-P (GRO)	19		10 mg/L	01/14/11 01/14/11
		Surr: 1,2-Dichloroethane-d4	117		(70-130) %REC	01/14/11 01/14/11
		Surr: Toluene-d8	95		(70-130) %REC	01/14/11 01/14/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	01/14/11 01/14/11
Client ID:	<b>MW-SF-1</b>					
Lab ID:	CHH11011306-10A	TPH-E (Fuel Product)	15	*	1.0 mg/L	01/14/11 01/15/11
Date Sampled	01/12/11 07:56	Surr: Nonane	0	S50	(57-147) %REC	01/14/11 01/15/11
		TPH-P (GRO)	15		10 mg/L	01/14/11 01/14/11
		Surr: 1,2-Dichloroethane-d4	115		(70-130) %REC	01/14/11 01/14/11
		Surr: Toluene-d8	95		(70-130) %REC	01/14/11 01/14/11
		Surr: 4-Bromofluorobenzene	105		(70-130) %REC	01/14/11 01/14/11

\*\*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.

V = Reporting Limits were increased due to high concentrations of target analytes.

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 • (714) 386-2901 / 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.

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-01A  
Client I.D. Number: TB-3

Sampled: 01/12/11 07:00  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	103	(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	104	(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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1/20/11

Report Date

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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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-02A  
Client I.D. Number: EB-3

Sampled: 01/12/11 12:15  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	114	(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	106	(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  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / 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*  
1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-03A  
Client I.D. Number: GMW-36

Sampled: 01/12/11 11:37  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	1,400	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	9,200	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	4,100	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	210	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	650	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	6,800	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	12,000	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 sec-Butylbenzene	290	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	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	250	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	370	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	4,000	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	109	(70-130) %REC
28 Benzene	4,600	100 µg/L	72 Surr: Toluene-d8	92	(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	2,900	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 L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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1/20/11

Report Date



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMED DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-04A  
Client I.D. Number: GMW-O-15

Sampled: 01/12/11 10:42  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	280	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	700	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Styrene	ND	20 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 o-Xylene	330	10 µg/L
7 Acetone	ND	400 µg/L	51 1,1,2,2-Tetrachloroethane	ND	20 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,2,3-Trichloropropane	ND	80 µg/L
9 Tertiary Butyl Alcohol (TBA)	12,000	200 µg/L	53 Isopropylbenzene	ND	20 µg/L
10 Dichloromethane	ND	80 µg/L	54 Bromobenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 n-Propylbenzene	31	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 4-Chlorotoluene	ND	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 2-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	430	10 µg/L	58 1,3,5-Trimethylbenzene	130	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 tert-Butylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 1,2,4-Trimethylbenzene	500	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 sec-Butylbenzene	ND	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 1,3-Dichlorobenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,4-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 4-Isopropyltoluene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 1,2-Dichlorobenzene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 n-Butylbenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2,4-Trichlorobenzene	ND	80 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 Naphthalene	170	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 1,2,3-Trichlorobenzene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC
28 Benzene	1,300	10 µg/L	72 Surr: Toluene-d8	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
30 Dibromomethane	ND	20 µg/L			
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	49	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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1/20/11

Report Date

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

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-05A  
Client I.D. Number: PZ-5

Sampled: 01/12/11 09:58  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

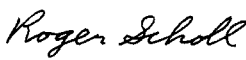

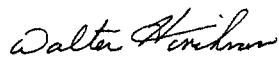
### Volatile Organics by GC/MS EPA Method SW8260B

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	ND	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	ND	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	ND	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)	38,000	400 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)	130	5.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	ND	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	ND	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	118	(70-130) %REC
28 Benzene	1,500	5.0 µg/L	72 Surr: Toluene-d8	96	(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	ND	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			

\*This analyte was analyzed separately 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

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-06A  
Client I.D. Number: DUP-3

Sampled: 01/12/11 00:00  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### 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	ND	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	ND	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	ND	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)	40,000	400 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)	130	5.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	ND	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	ND	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	118	(70-130) %REC
28 Benzene	1,500	5.0 µg/L	72 Surr: Toluene-d8	95	(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	ND	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			

\*This analyte was analyzed separately 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

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 • (714) 386-2901 / 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.

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-07A  
Client I.D. Number: GMW-O-18

Sampled: 01/12/11 09:21  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

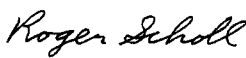


### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Styrene	ND	2.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	1.0 µg/L
7 Acetone	ND	40 µg/L	51 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,2,3-Trichloropropane	ND	8.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	29,000	300 µg/L	53 Isopropylbenzene	ND	2.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Bromobenzene	ND	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 4-Chlorotoluene	ND	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 2-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	58 1,3,5-Trimethylbenzene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 tert-Butylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 1,2,4-Trimethylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 1,3-Dichlorobenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,4-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 4-Isopropyltoluene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 1,2-Dichlorobenzene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 n-Butylbenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2,4-Trichlorobenzene	ND	8.0 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 1,2,3-Trichlorobenzene	ND	8.0 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	116	(70-130) %REC
28 Benzene	ND	1.0 µg/L	72 Surr: Toluene-d8	96	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L			
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

\*This analyte was analyzed separately 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




  
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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 1/20/11  
**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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-08A  
Client I.D. Number: MW-SF-4

Sampled: 01/12/11 08:35  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	350	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	280	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Styrene	ND	100 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 o-Xylene	ND	50 µg/L
7 Acetone	ND	2,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	100 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,2,3-Trichloropropane	ND	400 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 Isopropylbenzene	ND	100 µg/L
10 Dichloromethane	ND	400 µg/L	54 Bromobenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 n-Propylbenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 4-Chlorotoluene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 2-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	350	50 µg/L	58 1,3,5-Trimethylbenzene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 tert-Butylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 1,2,4-Trimethylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 sec-Butylbenzene	ND	100 µg/L
18 Di-isopropyl Ether (DIPE)	100	100 µg/L	62 1,3-Dichlorobenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,4-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 4-Isopropyltoluene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 1,2-Dichlorobenzene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 n-Butylbenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2,4-Trichlorobenzene	ND	400 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 Naphthalene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 1,2,3-Trichlorobenzene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 Surr: 1,2-Dichloroethane-d4	118	(70-130) %REC
28 Benzene	8,500	50 µg/L	72 Surr: Toluene-d8	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	103	(70-130) %REC
30 Dibromomethane	ND	100 µg/L			
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	ND	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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1/20/11

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.



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

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-09A  
Client I.D. Number: DUP-2

Sampled: 01/12/11 00:00  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	320	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	260	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Styrene	ND	100 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 o-Xylene	ND	50 µg/L
7 Acetone	ND	2,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	100 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,2,3-Trichloropropane	ND	400 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 Isopropylbenzene	ND	100 µg/L
10 Dichloromethane	ND	400 µg/L	54 Bromobenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 n-Propylbenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 4-Chlorotoluene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 2-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	310	50 µg/L	58 1,3,5-Trimethylbenzene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 tert-Butylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 1,2,4-Trimethylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 sec-Butylbenzene	ND	100 µg/L
18 Di-isopropyl Ether (DIPE)	110	100 µg/L	62 1,3-Dichlorobenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,4-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 4-Isopropyltoluene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 1,2-Dichlorobenzene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 n-Butylbenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2,4-Trichlorobenzene	ND	400 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 Naphthalene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 1,2,3-Trichlorobenzene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 Surr: 1,2-Dichloroethane-d4	117	(70-130) %REC
28 Benzene	8,400	50 µg/L	72 Surr: Toluene-d8	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
30 Dibromomethane	ND	100 µg/L			
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	ND	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 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  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*PS*

1/20/11

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

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11011306-10A  
Client I.D. Number: MW-SF-1

Sampled: 01/12/11 07:56  
Received: 01/13/11  
Extracted: 01/14/11  
Analyzed: 01/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	ND	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	ND	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Styrene	ND	100 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 o-Xylene	ND	50 µg/L
7 Acetone	ND	2,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	100 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,2,3-Trichloropropane	ND	400 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 Isopropylbenzene	ND	100 µg/L
10 Dichloromethane	ND	400 µg/L	54 Bromobenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 n-Propylbenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 4-Chlorotoluene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 2-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	650	50 µg/L	58 1,3,5-Trimethylbenzene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 tert-Butylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 1,2,4-Trimethylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 sec-Butylbenzene	ND	100 µg/L
18 Di-isopropyl Ether (DIPE)	ND	100 µg/L	62 1,3-Dichlorobenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,4-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 4-Isopropyltoluene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 1,2-Dichlorobenzene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 n-Butylbenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2,4-Trichlorobenzene	ND	400 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 Naphthalene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 1,2,3-Trichlorobenzene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC
28 Benzene	8,500	50 µg/L	72 Surr: Toluene-d8	95	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	105	(70-130) %REC
30 Dibromomethane	ND	100 µg/L			
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	ND	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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1/20/11

Report Date



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## VOC Sample Preservation Report

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**Work Order:** CHH11011306

**Job:** KMEP DFSP Norwalk

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
11011306-01A	TB-3	Aqueous	2
11011306-02A	EB-3	Aqueous	2
11011306-03A	GMW-36	Aqueous	6
11011306-04A	GMW-O-15	Aqueous	2
11011306-05A	PZ-5	Aqueous	2
11011306-06A	DUP-3	Aqueous	2
11011306-07A	GMW-O-18	Aqueous	2
11011306-08A	MW-SF-4	Aqueous	4
11011306-09A	DUP-2	Aqueous	5
11011306-10A	MW-SF-1	Aqueous	6

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**1/20/11**  
**Report Date**

*Page 1 of 1*



# Alpha Analytical, Inc.

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Date:  
19-Jan-11

## QC Summary Report

Work Order:  
11011306

### Method Blank

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

File ID: **7A01141106.D**

Batch ID: **25806**

Analysis Date: **01/14/2011 14:34**

Sample ID: **MBLK-25806**

Units : **mg/L**

Run ID: **FID\_7\_110114A**

Prep Date: **01/14/2011 09:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.136		0.15		91	57	147			

### Laboratory Control Spike

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

File ID: **7A01141107.D**

Batch ID: **25806**

Analysis Date: **01/14/2011 15:01**

Sample ID: **LCS-25806**

Units : **mg/L**

Run ID: **FID\_7\_110114A**

Prep Date: **01/14/2011 09:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.46	0.05	2.5		98	67	130			
Surr: Nonane	0.156		0.15		104	57	147			

### Sample Matrix Spike

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

File ID: **7A01141109.D**

Batch ID: **25806**

Analysis Date: **01/14/2011 15:54**

Sample ID: **11011306-02AMS**

Units : **mg/L**

Run ID: **FID\_7\_110114A**

Prep Date: **01/14/2011 09:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.01	0.05	2.5	0	120	49	150			
Surr: Nonane	0.181		0.15		121	57	147			

### Sample Matrix Spike Duplicate

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

File ID: **7A01141110.D**

Batch ID: **25806**

Analysis Date: **01/14/2011 16:21**

Sample ID: **11011306-02AMSD**

Units : **mg/L**

Run ID: **FID\_7\_110114A**

Prep Date: **01/14/2011 09:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.7	0.05	2.5	0	108	49	150	3.012	10.9(38)	
Surr: Nonane	0.188		0.15		125	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.



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Date:  
19-Jan-11

## QC Summary Report

Work Order:  
11011306

### Method Blank

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011406.D

Batch ID: **MS07W0114B**

Analysis Date: **01/14/2011 08:49**

Sample ID: **MBLK MS07W0114B**

Units : **mg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 08:49**

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	0.0103		0.01		103	70	130			
Surr: Toluene-d8	0.00993		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

### Laboratory Control Spike

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011404.D

Batch ID: **MS07W0114B**

Analysis Date: **01/14/2011 08:01**

Sample ID: **GLCS MS07W0114B**

Units : **mg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 08:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.377	0.05	0.4		94	70	130			
Surr: 1,2-Dichloroethane-d4	0.00989		0.01		99	70	130			
Surr: Toluene-d8	0.00934		0.01		93	70	130			
Surr: 4-Bromofluorobenzene	0.0103		0.01		103	70	130			

### Sample Matrix Spike

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011411.D

Batch ID: **MS07W0114B**

Analysis Date: **01/14/2011 10:48**

Sample ID: **11011304-02AGS**

Units : **mg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 10:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.08	0.25	2	0	104	58	135			
Surr: 1,2-Dichloroethane-d4	0.0526		0.05		105	70	130			
Surr: Toluene-d8	0.0461		0.05		92	70	130			
Surr: 4-Bromofluorobenzene	0.0514		0.05		103	70	130			

### Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011412.D

Batch ID: **MS07W0114B**

Analysis Date: **01/14/2011 11:12**

Sample ID: **11011304-02AGSD**

Units : **mg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 11:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.88	0.25	2	0	94	58	135	2.085	10.5(20)	
Surr: 1,2-Dichloroethane-d4	0.0486		0.05		97	70	130			
Surr: Toluene-d8	0.0499		0.05		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.0516		0.05		103	70	130			

### Comments:

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# Alpha Analytical, Inc.

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Date:  
19-Jan-11

## QC Summary Report

Work Order:  
11011306

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	10.3		10	103	70	130	
Surr: Toluene-d8	9.93		10	99	70	130	
Surr: 4-Bromofluorobenzene	10.5		10	105	70	130	

### Laboratory Control Spike

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011403.D

Batch ID: **MS07W0114A**

Analysis Date: **01/14/2011 07:37**

Sample ID: **LCS MS07W0114A**

Units: **µg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 07:37**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.97	1	10		99.7	80	120			
Methyl tert-butyl ether (MTBE)	7.74	0.5	10		77	62	136			
Benzene	10.3	0.5	10		103	70	130			
Trichloroethene	9.8	1	10		98	70	130			
Toluene	9.92	0.5	10		99	80	120			
Chlorobenzene	9.3	1	10		93	70	130			
Ethylbenzene	9.64	0.5	10		96	80	120			
m,p-Xylene	9.7	0.5	10		97	70	130			
o-Xylene	10.8	0.5	10		108	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.76		10		98	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

### Sample Matrix Spike

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011409.D

Batch ID: **MS07W0114A**

Analysis Date: **01/14/2011 10:01**

Sample ID: **11011304-02AMS**

Units: **µg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 10:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	56.8	2.5	50	0	114	60	130			
Methyl tert-butyl ether (MTBE)	44.8	1.3	50	0	90	56	141			
Benzene	54	1.3	50	0	108	67	130			
Trichloroethene	48.9	2.5	50	0	98	69	130			
Toluene	47	1.3	50	0	94	66	130			
Chlorobenzene	44.7	2.5	50	0	89	70	130			
Ethylbenzene	46	1.3	50	0	92	68	130			
m,p-Xylene	46.2	1.3	50	0	92	64	130			
o-Xylene	52.7	1.3	50	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	53.8		50		108	70	130			
Surr: Toluene-d8	46.2		50		92	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

### Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS07\DATA\110114\11011410.D

Batch ID: **MS07W0114A**

Analysis Date: **01/14/2011 10:25**

Sample ID: **11011304-02AMSD**

Units: **µg/L**

Run ID: **MSD\_07\_110114A**

Prep Date: **01/14/2011 10:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	58.4	2.5	50	0	117	60	130	56.82	2.7(20)	
Methyl tert-butyl ether (MTBE)	46.1	1.3	50	0	92	56	141	44.82	2.9(20)	
Benzene	55.5	1.3	50	0	111	67	130	54.04	2.6(20)	
Trichloroethene	51	2.5	50	0	102	69	130	48.89	4.2(20)	
Toluene	49.3	1.3	50	0	99	66	130	46.95	4.9(20)	
Chlorobenzene	46.8	2.5	50	0	94	70	130	44.67	4.6(20)	
Ethylbenzene	48.1	1.3	50	0	96	68	130	45.95	4.5(20)	
m,p-Xylene	48.5	1.3	50	0	97	64	130	46.24	4.8(20)	
o-Xylene	54.5	1.3	50	0	109	70	130	52.67	3.5(20)	
Surr: 1,2-Dichloroethane-d4	54.1		50		108	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	48.6		50		97	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:**  
*19-Jan-11*

## QC Summary Report

**Work Order:**  
11011306

**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.

# 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 : CHHL11011306**  
**Report Due By : 5:00 PM On : 21-Jan-2011**

**Client:**  
 CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : No

Sampled by : T. Rhymes

PO :  
 Client's COC # : none Job : KMEP DFSP Norwalk  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
2 °C	13-Jan-2011	13-Jan-2011

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W						
CHH11011306-01A	TB-3	AQ	01/12/11 07:00	2	0	6				TPHE(0.10) +Vinyl acetate					2 Reno Trip Blanks (1) 11/27/09 (1) 12/21/10
CHH11011306-02A	EB-3	AQ	01/12/11 12:15	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011306-03A	GMW-36	AQ	01/12/11 11:37	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011306-04A	GMW-O-15	AQ	01/12/11 10:42	7	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						1 HCl voa received broken.
CHH11011306-05A	PZ-5	AQ	01/12/11 09:58	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011306-06A	DUP-3	AQ	01/12/11 00:00	7	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						1 HCl voa received broken.
CHH11011306-07A	GMW-O-18	AQ	01/12/11 09:21	8	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11011306-08A	MW-SF-4	AQ	01/12/11 08:35	8	0	6	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. Samples -04A, -06A, and -10A: 1 HCl voa received broken. :

Signature	Print Name	Company	Date/Time
Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	1-13-11 1159

Logged in by:

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

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11011306

Report Due By : 5:00 PM On : 21-Jan-2011

**Client:**  
 CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention	Phone Number	E-Mail Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : No

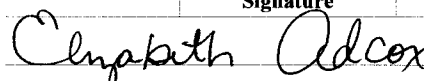
Sampled by : T. Rhymes

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  
 2 °C                      13-Jan-2011                      13-Jan-2011

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W							
CHH11011306-09A	DUP-2	AQ	01/12/11 00:00	8	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate							
CHH11011306-10A	MW-SF-1	AQ	01/12/11 07:56	7	0	6	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate							1 HCl voa received 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. Samples -04A, -06A, and -10A: 1 HCl voa received broken. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Elizabeth Adcox	Alpha Analytical, Inc.	1-13-11 1159

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 1

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

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT  
 Kinder Morgan

SITE  
 DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)													
			AQ= Water	#	Preservation	Type															
TB-3	1.12.11	0700	AQ	2	HCl	VDA	X	X													
EB-3		1215		00			X	X													
GMW-36		1137					X	X													
GMW-0-15		1042					X	X													
PL-5		0953					X	X													
DLP-3		-					X	X													
GMW-0-13		0921					X	X													
AW-SF-4		0935					X	X													
DLP-2		-					X	X													
AW-SF-1		0756					X	X													

ADD'L INFORMATION STATUS CONDITION **CHH11011306**  
 LAB SAMPLE #

.01  
.02  
.03  
.04  
.05  
.06  
.07  
.08  
.09  
.10

SAMPLING COMPLETED DATE 1.12.11 TIME 1300  
 SAMPLING PERFORMED BY T. RHYMES

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY	TIME 1345	RECEIVED BY	DATE 1.12.11	TIME 1345
RELEASED BY	TIME 1600	RECEIVED BY	DATE 1.12.11	TIME 1600
RELEASED BY	TIME 1600	RECEIVED BY	DATE 1.13.11	TIME 1159
SHIPPED VIA	TIME SENT	COOLER #		