

May 01, 2009

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

Subject: **Calscience Work Order No.: 09-04-2212**
Client Reference: DFSP NORWALK GWM

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/24/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Ranjit Clarke".

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-64	09-04-2212-2-D	04/23/09 08:16	Aqueous	GC 29	04/29/09	04/29/09 21:20	090429B01

<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	85	38-134			

GMW-63	09-04-2212-3-D	04/23/09 08:49	Aqueous	GC 29	04/29/09	04/29/09 21:54	090429B01
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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	88	38-134			

GMW-62	09-04-2212-4-D	04/23/09 09:30	Aqueous	GC 29	04/29/09	04/29/09 23:01	090429B01
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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	1500	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	104	38-134			

GMW-18	09-04-2212-6-D	04/23/09 10:45	Aqueous	GC 29	04/29/09	04/29/09 23:34	090429B01
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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	880	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	109	38-134			

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

Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-12	09-04-2212-9-D	04/23/09 13:14	Aqueous	GC 29	04/29/09	04/30/09 00:08	090429B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	91	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63 DUP	09-04-2212-11-C	04/23/09 00:00	Aqueous	GC 29	04/29/09	04/30/09 00:41	090429B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-3,118	N/A	Aqueous	GC 29	04/29/09	04/29/09 14:06	090429B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	92	38-134			

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

Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-64	09-04-2212-2-G	04/23/09 08:16	Aqueous	GC 27	04/27/09	04/28/09 12:59	090427B10

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	77	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63	09-04-2212-3-G	04/23/09 08:49	Aqueous	GC 27	04/27/09	04/28/09 01:36	090427B10

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	77	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-62	09-04-2212-4-G	04/23/09 09:30	Aqueous	GC 27	04/27/09	04/28/09 01:54	090427B10

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 JP5	150	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	70	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-43	09-04-2212-5-D	04/23/09 10:10	Aqueous	GC 27	04/27/09	04/28/09 02:11	090427B10

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

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Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-18	09-04-2212-6-G	04/23/09 10:45	Aqueous	GC 27	04/27/09	04/28/09 02:29	090427B10

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 JP5	1100	100	1		ug/L

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-44	09-04-2212-7-D	04/23/09 11:22	Aqueous	GC 27	04/27/09	04/28/09 02:47	090427B10

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-19	09-04-2212-8-G	04/23/09 11:53	Aqueous	GC 27	04/27/09	04/28/09 03:05	090427B10

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	83	68-140	

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Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-12	09-04-2212-9-G	04/23/09 13:14	Aqueous	GC 27	04/27/09	04/28/09 03:23	090427B10

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 JP5	630	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	76	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16	09-04-2212-10-D	04/23/09 13:55	Aqueous	GC 27	04/27/09	04/28/09 03:40	090427B10

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63 DUP	09-04-2212-11-D	04/23/09 00:00	Aqueous	GC 27	04/27/09	04/28/09 12:40	090427B10

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-366-39	N/A	Aqueous	GC 27	04/27/09	04/27/09 21:21	090427B10

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	68-140	

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Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

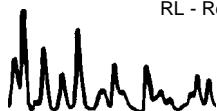
Project: DFSP NORWALK GWM

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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	09-04-2212-1-A	04/23/09 07:00	Aqueous	GC/MS LL	04/29/09	04/30/09 08:41	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	99	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	100	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

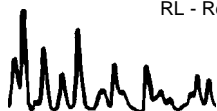
Project: DFSP NORWALK GWM

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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	09-04-2212-2-A	04/23/09 08:16	Aqueous	GC/MS LL	04/29/09	04/30/09 06:53	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	95	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	102	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

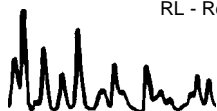
Project: DFSP NORWALK GWM

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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	09-04-2212-3-A	04/23/09 08:49	Aqueous	GC/MS LL	04/29/09	04/30/09 09:08	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	103	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

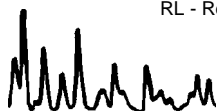
Project: DFSP NORWALK GWM

Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-62	09-04-2212-4-A	04/23/09 09:30	Aqueous	GC/MS LL	04/29/09	04/30/09 09:35	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		c-1,3-Dichloropropene	ND	2.5	5	
Benzene	370	2.5	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromobenzene	ND	5.0	5		Ethylbenzene	25	2.5	5	
Bromochloromethane	ND	5.0	5		2-Hexanone	ND	50	5	
Bromodichloromethane	ND	5.0	5		Isopropylbenzene	ND	5.0	5	
Bromoform	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
Bromomethane	ND	25	5		Methylene Chloride	ND	25	5	
2-Butanone	ND	50	5		4-Methyl-2-Pentanone	ND	50	5	
n-Butylbenzene	ND	5.0	5		Naphthalene	ND	50	5	
sec-Butylbenzene	ND	5.0	5		n-Propylbenzene	ND	5.0	5	
tert-Butylbenzene	ND	5.0	5		Styrene	ND	5.0	5	
Carbon Disulfide	ND	50	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Carbon Tetrachloride	ND	2.5	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Tetrachloroethene	ND	5.0	5	
Chloroethane	ND	25	5		Toluene	ND	2.5	5	
Chloroform	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Chloromethane	ND	25	5		1,2,4-Trichlorobenzene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		1,1,1-Trichloroethane	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromochloromethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		Trichloroethene	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,2,3-Trichloropropane	ND	25	5	
1,2-Dichlorobenzene	ND	5.0	5		1,2,4-Trimethylbenzene	8.9	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,4-Dichlorobenzene	ND	5.0	5		Vinyl Acetate	ND	50	5	
Dichlorodifluoromethane	ND	5.0	5		Vinyl Chloride	ND	2.5	5	
1,1-Dichloroethane	ND	5.0	5		p/m-Xylene	5.2	2.5	5	
1,2-Dichloroethane	ND	2.5	5		o-Xylene	ND	2.5	5	
1,1-Dichloroethene	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	2.5	5	
c-1,2-Dichloroethene	ND	5.0	5		Tert-Butyl Alcohol (TBA)	ND	50	5	
t-1,2-Dichloroethene	ND	5.0	5		Diisopropyl Ether (DIPE)	ND	10	5	
1,2-Dichloropropane	ND	5.0	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	5	
1,3-Dichloropropane	ND	5.0	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5	
2,2-Dichloropropane	ND	5.0	5		Ethanol	ND	500	5	
1,1-Dichloropropene	ND	5.0	5						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	98	75-141		
Toluene-d8	96	83-113			1,4-Bromofluorobenzene	103	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

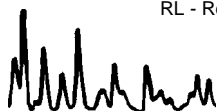
Project: DFSP NORWALK GWM

Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-18	09-04-2212-6-A	04/23/09 10:45	Aqueous	GC/MS LL	04/29/09	04/30/09 10:03	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	60	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	1.4	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	3.2	1.0	1	
Bromofom	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	1.3	1.0	1		n-Propylbenzene	1.3	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	3.9	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	3.7	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	5.0	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	3.0	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	13	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	98	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	103	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

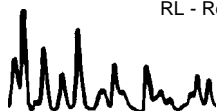
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-12	09-04-2212-9-A	04/23/09 13:14	Aqueous	GC/MS LL	04/29/09	04/30/09 10:30	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	98	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	100	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

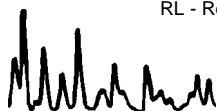
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16	09-04-2212-10-A	04/23/09 13:55	Aqueous	GC/MS LL	04/29/09	04/30/09 10:56	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	97	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	99	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

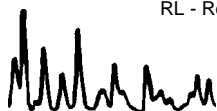
Project: DFSP NORWALK GWM

Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63 DUP	09-04-2212-11-A	04/23/09 00:00	Aqueous	GC/MS LL	04/29/09	04/30/09 11:24	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	100	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	103	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

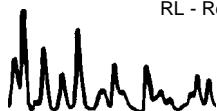
Project: DFSP NORWALK GWM

Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,343	N/A	Aqueous	GC/MS LL	04/29/09	04/30/09 02:25	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	100	82-130			1,2-Dichloroethane-d4	96	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	101	70-118		

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



Analytical Report



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

Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-43	09-04-2212-5-A	04/23/09 10:10	Aqueous	GC/MS BB	04/28/09	04/29/09 11:06	090428L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Ethylbenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	99	81-135		
Toluene-d8	96	83-119			1,4-Bromofluorobenzene	92	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-44	09-04-2212-7-A	04/23/09 11:22	Aqueous	GC/MS BB	04/28/09	04/29/09 11:38	090428L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Ethylbenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	99	81-135		
Toluene-d8	96	83-119			1,4-Bromofluorobenzene	91	74-110		

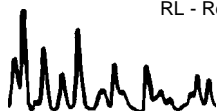
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-19	09-04-2212-8-A	04/23/09 11:53	Aqueous	GC/MS BB	04/28/09	04/29/09 12:40	090428L02

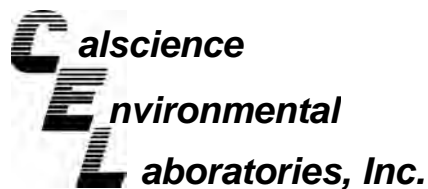
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.70	0.50	1		p/m-Xylene	ND	0.50	1	
Ethylbenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	0.67	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	102	73-145			Dibromofluoromethane	102	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	90	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-845	N/A	Aqueous	GC/MS BB	04/28/09	04/29/09 03:48	090428L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Ethylbenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	102	73-145			Dibromofluoromethane	97	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	86	74-110		

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





Quality Control - Spike/Spike Duplicate



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

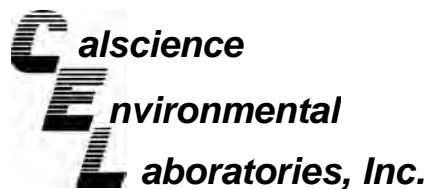
Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-1927-1	Aqueous	GC 29	04/29/09	04/29/09	090429S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	101	102	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

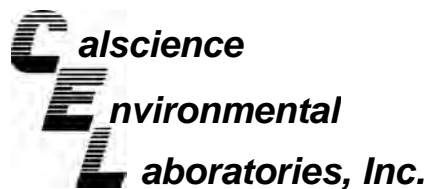
Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-64	Aqueous	GC/MS LL	04/29/09	04/30/09	090429S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	89	88-118	3	0-7	
Carbon Tetrachloride	86	83	67-145	3	0-11	
Chlorobenzene	92	91	88-118	1	0-7	
1,2-Dibromoethane	96	95	70-130	1	0-30	
1,2-Dichlorobenzene	91	89	86-116	2	0-8	
1,1-Dichloroethene	84	82	70-130	2	0-25	
Ethylbenzene	91	88	70-130	3	0-30	
Toluene	89	88	87-123	2	0-8	
Trichloroethene	83	82	79-127	0	0-10	
Vinyl Chloride	83	80	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	95	95	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	102	107	36-168	4	0-45	
Diisopropyl Ether (DIPE)	93	93	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	96	96	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	96	72-126	3	0-12	
Ethanol	125	115	53-149	8	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

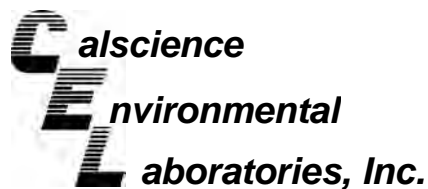
Date Received: 04/24/09
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-1939-5	Aqueous	GC/MS BB	04/28/09	04/29/09	090428S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	102	86-122	2	0-8	
Carbon Tetrachloride	100	101	78-138	1	0-9	
Chlorobenzene	99	101	90-120	2	0-9	
1,2-Dibromoethane	103	104	70-130	1	0-30	
1,2-Dichlorobenzene	100	104	89-119	4	0-10	
1,1-Dichloroethene	103	104	52-142	0	0-23	
Ethylbenzene	105	103	70-130	2	0-30	
Toluene	100	99	85-127	2	0-12	
Trichloroethene	100	99	78-126	1	0-10	
Vinyl Chloride	96	92	56-140	5	0-21	
Methyl-t-Butyl Ether (MTBE)	94	100	64-136	4	0-28	
Tert-Butyl Alcohol (TBA)	108	112	27-183	4	0-60	
Diisopropyl Ether (DIPE)	95	95	78-126	0	0-16	
Ethyl-t-Butyl Ether (ETBE)	94	96	67-133	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	95	96	63-141	2	0-21	
Ethanol	83	95	11-167	13	0-64	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

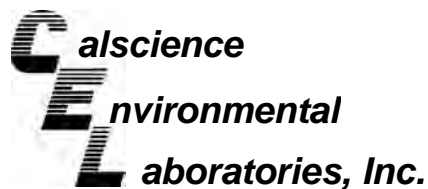
Date Received: N/A
Work Order No: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,118	Aqueous	GC 29	04/29/09	04/29/09	090429B01

<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	104	106	78-120	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

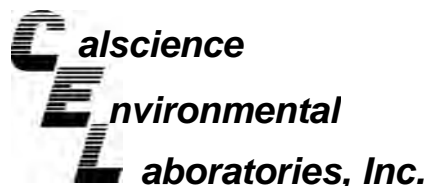
Date Received: N/A
Work Order No: 09-04-2212
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-39	Aqueous	GC 27	04/27/09	04/27/09	090427B10

<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	98	96	75-117	2	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: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,343	Aqueous	GC/MS LL	04/29/09	04/30/09	090429L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	93	87	84-120	78-126	6	0-8	
Carbon Tetrachloride	89	84	63-147	49-161	7	0-10	
Chlorobenzene	95	91	89-119	84-124	5	0-7	
1,2-Dibromoethane	101	95	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	96	88	89-119	84-124	9	0-9	ME
1,1-Dichloroethene	93	86	77-125	69-133	7	0-16	
Ethylbenzene	94	89	80-120	73-127	5	0-20	
Toluene	93	87	83-125	76-132	7	0-9	
Trichloroethene	98	91	89-119	84-124	7	0-8	
Vinyl Chloride	86	80	63-135	51-147	8	0-13	
Methyl-t-Butyl Ether (MTBE)	102	91	82-118	76-124	11	0-13	
Tert-Butyl Alcohol (TBA)	103	99	46-154	28-172	4	0-32	
Diisopropyl Ether (DIPE)	98	91	81-123	74-130	8	0-11	
Ethyl-t-Butyl Ether (ETBE)	99	93	74-122	66-130	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	95	76-124	68-132	7	0-10	
Ethanol	124	122	60-138	47-151	1	0-32	

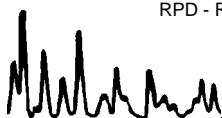
Total number of LCS compounds : 16

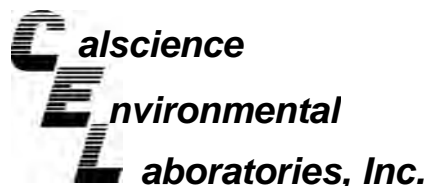
Total number of ME compounds : 1

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: 09-04-2212
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-845	Aqueous	GC/MS BB	04/28/09	04/29/09	090428L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	103	104	87-117	82-122	1	0-7	
Carbon Tetrachloride	100	105	78-132	69-141	5	0-8	
Chlorobenzene	101	105	88-118	83-123	4	0-8	
1,2-Dibromoethane	103	95	80-120	73-127	8	0-20	
1,2-Dichlorobenzene	103	105	88-118	83-123	2	0-8	
1,1-Dichloroethene	104	109	71-131	61-141	4	0-14	
Ethylbenzene	104	108	80-120	73-127	3	0-20	
Toluene	102	101	85-127	78-134	1	0-7	
Trichloroethene	108	105	85-121	79-127	2	0-11	
Vinyl Chloride	96	97	64-136	52-148	0	0-10	
Methyl-t-Butyl Ether (MTBE)	98	102	67-133	56-144	4	0-16	
Tert-Butyl Alcohol (TBA)	103	102	34-154	14-174	2	0-19	
Diisopropyl Ether (DIPE)	98	100	80-122	73-129	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	97	101	73-127	64-136	3	0-11	
Tert-Amyl-Methyl Ether (TAME)	97	97	69-135	58-146	1	0-12	
Ethanol	92	103	34-124	19-139	11	0-44	

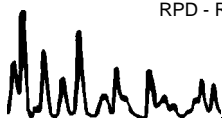
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-04-2212

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



SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons

DATE: 04/24/09

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

Temperature 3.7 °C - 0.2 °C (CF) = 3.5 °C Blank Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

Sample _____ No (Not Intact) Not Present Initial: T.N

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

CONTAINER TYPE:

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

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

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

250PB 250PBn 125PB 125PBzna 100PB 100PBna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** T.N

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** W.S.C

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ zna: ZnAc₂+NaOH f: Field-filtered **Scanned by:** T.N

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

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

Comments:

(-8) RECEIVED 3 EXTRA VIALS
 (-11) COLLECTION DATE PER LABELS IS 04/23/09.

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 RSK or CO ₂ or DO Received

Comments: _____

*Transferred at Client's request.

Initial / Date TN 04/24/09

Ranjit Clarke

From: Lucas, Mary [Mary.Lucas@parsons.com]
Sent: Monday, April 27, 2009 9:38 AM
To: Ranjit Clarke
Cc: Dzung Tran
Subject: RE: DFSP NORWALK GWM (04/23/09)

This was an oversight, please analyze for VOCs.
Thanks.

From: Ranjit Clarke [mailto:RClarke@calscience.com]
Sent: Friday, April 24, 2009 4:16 PM
To: Lucas, Mary; Zicker, Cindy; Walters, Joseph
Subject: COC: DFSP NORWALK GWM (04/23/09)

Attached is the COC for the samples collected on 04/23/09. No VOCs analysis has been selected for the Trip Blank. Is this correct or was this just an oversight?

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

The difference is service

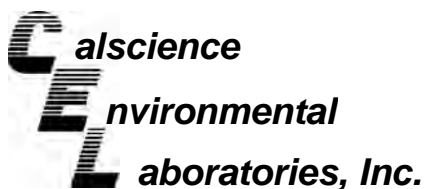
<<09-04-2212.PDF>>

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May 04, 2009

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

Subject: **Calscience Work Order No.: 09-04-2304**
Client Reference: DFSP NORWALK GWM

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/25/2009 and analyzed in accordance with the attached chain-of-custody.

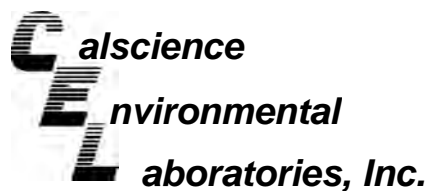
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Ranjit Clarke". The signature is written in a cursive, flowing style.

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	09-04-2304-2-D	04/24/09 07:00	Aqueous	GC 29	05/01/09	05/01/09 17:22	090501B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	88	38-134			

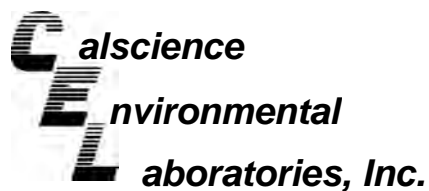
GW-14	09-04-2304-8-D	04/24/09 11:37	Aqueous	GC 29	05/01/09	05/01/09 19:03	090501B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	690	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	120	38-134			

Method Blank	099-12-247-3,127	N/A	Aqueous	GC 29	05/01/09	05/01/09 15:41	090501B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	91	38-134			

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	09-04-2304-2-G	04/24/09 07:00	Aqueous	GC 27	04/28/09	04/30/09 03:00	090428B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	86	68-140			

GW-03	09-04-2304-3-D	04/24/09 07:43	Aqueous	GC 27	04/28/09	04/30/09 03:18	090428B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	82	68-140			

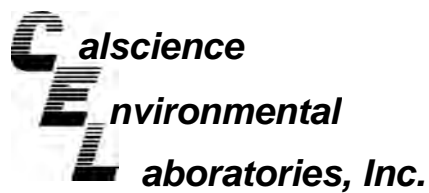
MW-11	09-04-2304-4-D	04/24/09 08:21	Aqueous	GC 27	04/28/09	04/30/09 03:36	090428B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	520	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	77	68-140			

GMW-40	09-04-2304-5-D	04/24/09 09:33	Aqueous	GC 27	04/28/09	04/30/09 03:54	090428B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	88	68-140			

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TF-21	09-04-2304-6-D	04/24/09 10:13	Aqueous	GC 27	04/28/09	04/30/09 04:12	090428B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	350	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	76	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-35	09-04-2304-7-G	04/24/09 10:53	Aqueous	GC 27	04/28/09	04/30/09 04:30	090428B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	520	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	83	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	09-04-2304-8-G	04/24/09 11:37	Aqueous	GC 27	04/28/09	04/30/09 04:48	090428B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	1600	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	85	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TF-16	09-04-2304-9-D	04/24/09 12:20	Aqueous	GC 27	04/28/09	04/30/09 05:06	090428B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	2200	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	70	68-140			

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

Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-32	09-04-2304-10-D	04/24/09 13:13	Aqueous	GC 27	04/28/09	04/30/09 05:24	090428B09

<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	83	68-140			

Method Blank	099-12-366-42	N/A	Aqueous	GC 27	04/28/09	04/30/09 02:05	090428B09
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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	78	68-140			

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

Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

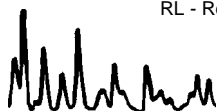
Project: DFSP NORWALK GWM

Page 1 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-1	09-04-2304-1-A	04/24/09 07:00	Aqueous	GC/MS QQ	04/29/09	04/30/09 03:33	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	101	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

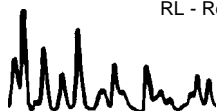
Project: DFSP NORWALK GWM

Page 2 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-13	09-04-2304-2-A	04/24/09 07:00	Aqueous	GC/MS QQ	04/29/09	04/30/09 03:58	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	14	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	11	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	2.1	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	108	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	105	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

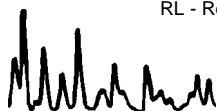
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-03	09-04-2304-3-A	04/24/09 07:43	Aqueous	GC/MS QQ	04/29/09	04/30/09 07:21	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	17	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	86	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	101	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

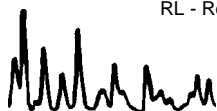
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	09-04-2304-4-A	04/24/09 08:21	Aqueous	GC/MS QQ	04/29/09	04/30/09 07:47	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	4.9	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	1.6	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	8.7	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	116	82-130			1,2-Dichloroethane-d4	93	75-141		
Toluene-d8	108	83-113			1,4-Bromofluorobenzene	101	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

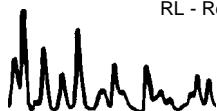
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-40	09-04-2304-5-A	04/24/09 09:33	Aqueous	GC/MS QQ	04/29/09	04/30/09 08:12	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	86	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	96	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

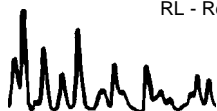
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TF-21	09-04-2304-6-A	04/24/09 10:13	Aqueous	GC/MS QQ	04/29/09	04/30/09 08:37	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	40	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	8.5	1.0	1	
Bromofom	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	2.3	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	18	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	85	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	98	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

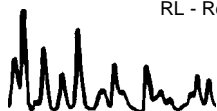
Project: DFSP NORWALK GWM

Page 7 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-14	09-04-2304-8-A	04/24/09 11:37	Aqueous	GC/MS QQ	04/29/09	04/30/09 09:03	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	66	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	0.99	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	7.5	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	11	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	4.8	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	0.64	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	13	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	14	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	86	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	98	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

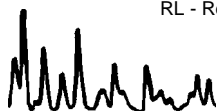
Project: DFSP NORWALK GWM

Page 8 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TF-16	09-04-2304-9-B	04/24/09 12:20	Aqueous	GC/MS QQ	04/30/09	04/30/09 15:15	090430L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	24	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	3.3	1.0	1	
Bromofom	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	1.6	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	4.1	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	11	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	99	82-130			1,2-Dichloroethane-d4	87	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

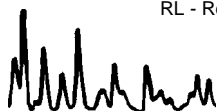
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-32	09-04-2304-10-A	04/24/09 13:13	Aqueous	GC/MS QQ	04/29/09	04/30/09 09:53	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	96	82-130			1,2-Dichloroethane-d4	83	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	96	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

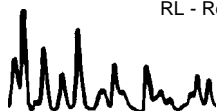
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,352	N/A	Aqueous	GC/MS QQ	04/29/09	04/30/09 02:42	090429L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoforn	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	108	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	103	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

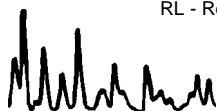
Project: DFSP NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,353	N/A	Aqueous	GC/MS QQ	04/30/09	04/30/09 14:49	090430L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoforn	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	98	82-130			1,2-Dichloroethane-d4	86	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	95	70-118		

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



Analytical Report



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: DFSP NORWALK GWM

Page 1 of 1

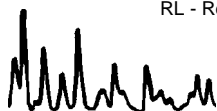
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-35	09-04-2304-7-C	04/24/09 10:53	Aqueous	GC/MS Q	04/30/09	04/30/09 18:16	090430L01

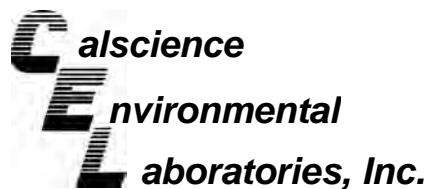
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	63	5.0	10		p/m-Xylene	ND	5.0	10	
Ethylbenzene	ND	5.0	10		o-Xylene	ND	5.0	10	
Toluene	ND	5.0	10		Methyl-t-Butyl Ether (MTBE)	210	5.0	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
1,2-Dichloroethane-d4	105	73-145			Dibromofluoromethane	106	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	100	74-110		

Method Blank	099-12-703-848	N/A	Aqueous	GC/MS Q	04/30/09	04/30/09 15:09	090430L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Ethylbenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
1,2-Dichloroethane-d4	110	73-145			Dibromofluoromethane	107	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	92	74-110		

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





Quality Control - Spike/Spike Duplicate



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

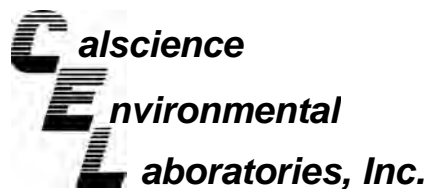
Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW-13	Aqueous	GC 29	05/01/09	05/01/09	090501S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	105	105	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

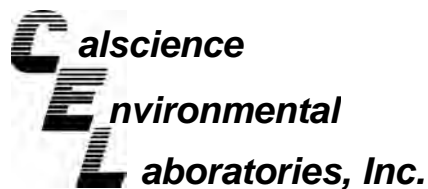
Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW-13	Aqueous	GC/MS QQ	04/29/09	04/30/09	090429S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	98	88-118	1	0-7	
Carbon Tetrachloride	101	101	67-145	0	0-11	
Chlorobenzene	96	97	88-118	1	0-7	
1,2-Dibromoethane	102	104	70-130	2	0-30	
1,2-Dichlorobenzene	96	96	86-116	0	0-8	
1,1-Dichloroethene	90	85	70-130	6	0-25	
Ethylbenzene	97	96	70-130	1	0-30	
Toluene	98	99	87-123	1	0-8	
Trichloroethene	95	96	79-127	1	0-10	
Vinyl Chloride	88	87	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	105	104	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	101	104	36-168	3	0-45	
Diisopropyl Ether (DIPE)	108	110	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	108	107	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	107	72-126	3	0-12	
Ethanol	92	90	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B

Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
TF-16	Aqueous	GC/MS QQ	04/30/09	04/30/09	090430S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	99	88-118	0	0-7	
Carbon Tetrachloride	88	88	67-145	0	0-11	
Chlorobenzene	99	99	88-118	1	0-7	
1,2-Dibromoethane	104	104	70-130	0	0-30	
1,2-Dichlorobenzene	97	97	86-116	0	0-8	
1,1-Dichloroethene	97	101	70-130	4	0-25	
Ethylbenzene	99	99	70-130	0	0-30	
Toluene	100	102	87-123	2	0-8	
Trichloroethene	93	95	79-127	2	0-10	
Vinyl Chloride	101	99	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	100	102	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	100	90	36-168	10	0-45	
Diisopropyl Ether (DIPE)	117	117	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	109	110	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	103	72-126	3	0-12	
Ethanol	118	83	53-149	34	0-31	4

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

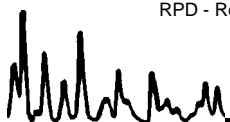
Date Received: 04/25/09
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B

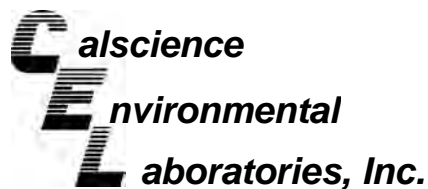
Project DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-1902-3	Aqueous	GC/MS Q	04/30/09	04/30/09	090430S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	95	86-122	2	0-8	
Toluene	95	96	85-127	2	0-12	
Ethylbenzene	101	102	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	88	97	64-136	10	0-28	
Tert-Butyl Alcohol (TBA)	98	100	27-183	2	0-60	
Diisopropyl Ether (DIPE)	101	91	78-126	10	0-16	
Ethyl-t-Butyl Ether (ETBE)	89	93	67-133	4	0-21	
Tert-Amyl-Methyl Ether (TAME)	91	95	63-141	5	0-21	
Ethanol	108	90	11-167	18	0-64	
1,1-Dichloroethene	89	93	52-142	4	0-23	
1,2-Dibromoethane	96	99	70-130	3	0-30	
1,2-Dichlorobenzene	97	97	89-119	0	0-10	
Carbon Tetrachloride	97	100	78-138	3	0-9	
Chlorobenzene	96	98	90-120	2	0-9	
Trichloroethene	89	92	78-126	3	0-10	
Vinyl Chloride	86	89	56-140	3	0-21	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

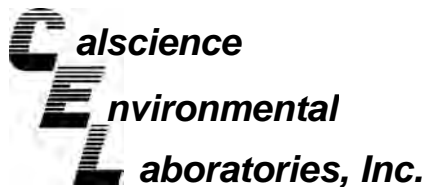
Date Received: N/A
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,127	Aqueous	GC 29	05/01/09	05/01/09	090501B01

<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	105	106	78-120	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

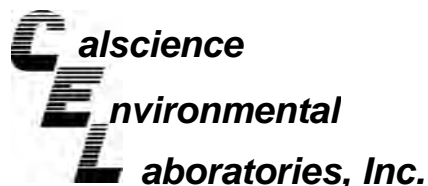
Date Received: N/A
Work Order No: 09-04-2304
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-42	Aqueous	GC 27	04/28/09	04/30/09	090428B09

<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	91	96	75-117	5	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: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,352	Aqueous	GC/MS QQ	04/29/09	04/30/09	090429L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	97	84-120	78-126	3	0-8	
Carbon Tetrachloride	104	103	63-147	49-161	0	0-10	
Chlorobenzene	101	100	89-119	84-124	1	0-7	
1,2-Dibromoethane	105	109	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	99	98	89-119	84-124	1	0-9	
1,1-Dichloroethene	97	88	77-125	69-133	10	0-16	
Ethylbenzene	100	100	80-120	73-127	0	0-20	
Toluene	101	98	83-125	76-132	3	0-9	
Trichloroethene	111	104	89-119	84-124	6	0-8	
Vinyl Chloride	91	92	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	107	105	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	96	98	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	111	109	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	110	111	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	109	76-124	68-132	0	0-10	
Ethanol	88	82	60-138	47-151	7	0-32	

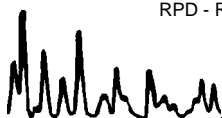
Total number of LCS compounds : 16

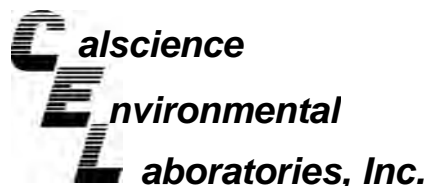
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,353	Aqueous	GC/MS QQ	04/30/09	04/30/09	090430L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	103	106	84-120	78-126	2	0-8	
Carbon Tetrachloride	88	89	63-147	49-161	1	0-10	
Chlorobenzene	99	99	89-119	84-124	0	0-7	
1,2-Dibromoethane	107	105	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	100	89-119	84-124	2	0-9	
1,1-Dichloroethene	99	98	77-125	69-133	1	0-16	
Ethylbenzene	98	98	80-120	73-127	1	0-20	
Toluene	100	102	83-125	76-132	2	0-9	
Trichloroethene	97	100	89-119	84-124	3	0-8	
Vinyl Chloride	96	101	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	104	106	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	90	94	46-154	28-172	4	0-32	
Diisopropyl Ether (DIPE)	119	121	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	112	113	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	104	76-124	68-132	1	0-10	
Ethanol	92	82	60-138	47-151	11	0-32	

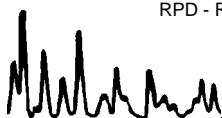
Total number of LCS compounds : 16

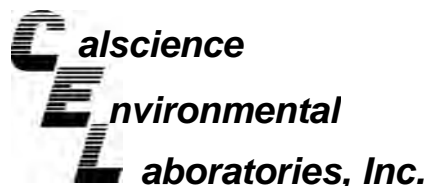
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 09-04-2304
Preparation: EPA 5030B
Method: EPA 8260B

Project: DFSP NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-848	Aqueous	GC/MS Q	04/30/09	04/30/09	090430L01		
<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	91	91	87-117	82-122	0	0-7	
Carbon Tetrachloride	96	98	78-132	69-141	2	0-8	
Chlorobenzene	96	95	88-118	83-123	2	0-8	
1,2-Dibromoethane	92	92	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	93	93	88-118	83-123	0	0-8	
1,1-Dichloroethene	87	90	71-131	61-141	3	0-14	
Ethylbenzene	101	100	80-120	73-127	1	0-20	
Toluene	93	92	85-127	78-134	1	0-7	
Trichloroethene	93	94	85-121	79-127	1	0-11	
Vinyl Chloride	87	87	64-136	52-148	1	0-10	
Methyl-t-Butyl Ether (MTBE)	84	86	67-133	56-144	3	0-16	
Tert-Butyl Alcohol (TBA)	98	94	34-154	14-174	4	0-19	
Diisopropyl Ether (DIPE)	96	88	80-122	73-129	8	0-8	
Ethyl-t-Butyl Ether (ETBE)	90	87	73-127	64-136	4	0-11	
Tert-Amyl-Methyl Ether (TAME)	88	88	69-135	58-146	0	0-12	
Ethanol	94	100	34-124	19-139	6	0-44	

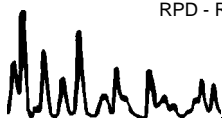
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Glossary of Terms and Qualifiers



Work Order Number: 09-04-2304

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





Calscience Environmental Laboratories, Inc.
 SoCal Laboratory
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 (714) 895-5494

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

CHAIN OF CUSTODY RECORD
 Date 4/24/2009
 Page 1 of 1

LABORATORY CLIENT: **PARSONS**
 ADDRESS: **100 W. WALNUT ST.**
 CITY: **PASADENA** STATE: **CA** ZIP: **91124**
 TEL: **(626) 440 6032** EMAIL: **MARY.LUCAS@PARSONS.COM**
 TURNAROUND TIME: SAME DAY 24 HR 48 HR 72 HR STANDARD
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF

CLIENT PROJECT NAME / NUMBER: **DFSP NORWALK GWM**
 PROJECT CONTACT: **MARY LUCAS**
 SAMPLER(S): (PRINT NAME) **MARY LUCAS (BY NAME)**
 (PRINT TECH) **MARY LUCAS (BY TECH)**
 COELT LOG CODE:
 P.O. NO.: _____
 LAB USE ONLY: **0** **4** - **2** **3** **0** **4**
 COOLER RECEIPT: _____
 TEMP: _____ °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ()	BTEX / MTBE (8260B) or ()	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/74X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3+]
			DATE	TIME																	
1	TRP-1		4/24	0702	WR	2	X														
2	GMW-15			0700	WG	7															
3	GMW-03			0713	WG	4															
4	MW-11			0801	WG	4															
5	GMW-10			0933	WG	4															
6	TF-21			1015	WG	4															
7	GMW-35			1053	WG	4															
8	GMW-14			1137	WG	7	X														
9	TF-16			1220	WG	4															
10	GMW-32 GMW-32A 15			1813	WG	4															

Relinquished by: (Signature) [Signature] Date: 4/25/09 Time: 1402
 Relinquished by: (Signature) [Signature] Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 04/25/09

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

Temperature ≥ .9 °C - 0.2 °C (CF) = ≥ .7 °C Blank Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

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

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"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

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

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

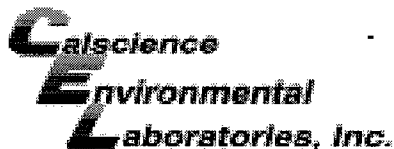
500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_{z_{na}} 100PB 100PB_{na2} _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** WJC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** YL

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



SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

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

(-7) received 7 containers
7 vials + 500 AGJ

(-2) to (+) all vial without
preservative not. for
TPH G, 8260 B.

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 RSK or CO ₂ or DO Received

Comments: _____

*Transferred at Client's request.

Initial / Date W.S.C 4-25-09



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

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

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : EB-1	TPH-E (Fuel Product)	ND	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-01A	Surr: Nonane	131	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	105	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	04/20/09	04/24/09
Client ID : GMW-3	TPH-E (Fuel Product)	ND	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-02A	Surr: Nonane	129	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	105	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/20/09	04/24/09
Client ID : PZ-10	TPH-E (Fuel Product)	2.6 *	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-03A	Surr: Nonane	124	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	0.56	0.20 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	102	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/20/09	04/24/09
Client ID : GMW-1	TPH-E (Fuel Product)	2.4 *	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-04A	Surr: Nonane	130	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	0.60	0.20 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	100	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/20/09	04/24/09
Client ID : GWR-1	TPH-E (Fuel Product)	1.7 *	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-05A	Surr: Nonane	122	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	5.1	3.0 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	104	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/20/09	04/24/09
Client ID : DUP-1	TPH-E (Fuel Product)	2.5 *	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-06A	Surr: Nonane	133	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	0.73	0.20 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	103	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/20/09	04/24/09
Client ID : PW-3	TPH-E (Fuel Product)	ND	0.10 mg/L	04/20/09	04/23/09
Lab ID : GMT09042105-07A	Surr: Nonane	130	(57-147) %REC	04/20/09	04/23/09
	TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	04/20/09	04/24/09
	Surr: Toluene-d8	104	(70-130) %REC	04/20/09	04/24/09
	Surr: 4-Bromofluorobenzene	92	(70-130) %REC	04/20/09	04/24/09



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Client ID :	HL-2	TPH-E (Fuel Product)	ND	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-08A	Surr: Nonane	124	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	107	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/20/09	04/24/09
Client ID :	MW-SF-1	TPH-E (Fuel Product)	11 *	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-09A	Surr: Nonane	130	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	16	10 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	101	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/20/09	04/24/09
Client ID :	EB-2	TPH-E (Fuel Product)	ND	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-11A	Surr: Nonane	127	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	103	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	04/20/09	04/24/09
Client ID :	GMW-2	TPH-E (Fuel Product)	0.10 *	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-12A	Surr: Nonane	133	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	106	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/20/09	04/24/09
Client ID :	HL-3	TPH-E (Fuel Product)	0.13 *	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-13A	Surr: Nonane	132	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	104	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/20/09	04/24/09
Client ID :	PW-1	TPH-E (Fuel Product)	ND	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-14A	Surr: Nonane	133	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	107	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/20/09	04/24/09
Client ID :	GMW-27	TPH-E (Fuel Product)	0.13 *	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-15A	Surr: Nonane	118	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	0.10	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	103	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/20/09	04/24/09
Client ID :	MW-19 (MID)	TPH-E (Fuel Product)	0.12 *	0.10 mg/L	04/20/09	04/23/09
Lab ID :	GMT09042105-16A	Surr: Nonane	124	(57-147) %REC	04/20/09	04/23/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	104	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/20/09	04/24/09
Client ID :	MW-7	TPH-E (Fuel Product)	0.11 *	0.10 mg/L	04/20/09	04/24/09
Lab ID :	GMT09042105-17A	Surr: Nonane	128	(57-147) %REC	04/20/09	04/24/09
		TPH-P (GRO)	ND	0.050 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	107	(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/20/09	04/24/09



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Client ID :	MW-21 (MID)	TPH-E (Fuel Product)	0.53	*	0.10 mg/L	04/20/09	04/24/09
Lab ID :	GMT09042105-18A	Surr: Nonane	123		(57-147) %REC	04/20/09	04/24/09
		TPH-P (GRO)	ND	O	0.10 mg/L	04/20/09	04/24/09
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	04/20/09	04/24/09
		Surr: Toluene-d8	105		(70-130) %REC	04/20/09	04/24/09
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	04/20/09	04/24/09

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

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

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 / info@alpha-analytical.com

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.

4/29/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-01A
Client I.D. Number: EB-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	94	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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

4/29/09

Report Date



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-02A
Client I.D. Number: GMW-3

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	92	(70-130) %REC
28 Benzene	0.63	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	94	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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Report Date

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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-03A
Client I.D. Number: PZ-10

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	3.2	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	2.5	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)	38	20 µg/L	53 Isopropylbenzene	17	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	21	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)	12	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	6.8	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	5.2	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	5.2	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	93	(70-130) %REC
28 Benzene	26	1.0 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	93	(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	8.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

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4/29/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
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Newport Beach, CA 926633627
Job#: KMEP Norwalk

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

Alpha Analytical Number: GMT09042105-04A
Client I.D. Number: GMW-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	25	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	12	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	3.7	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)	ND	20 µg/L	53 Isopropylbenzene	8.4	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	8.4	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	15	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	3.7	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	97	(70-130) %REC
28 Benzene	63	1.0 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	93	(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	1.2	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	8.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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4/28/09

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
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Job#: KMPE Norwalk

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

Alpha Analytical Number: GMT09042105-05A
Client I.D. Number: GWR-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	30 µg/L	45 Chlorobenzene	ND	30 µg/L
2 Chloromethane	ND	120 µg/L	46 Ethylbenzene	48	15 µg/L
3 Vinyl chloride	ND	30 µg/L	47 m,p-Xylene	ND	15 µg/L
4 Chloroethane	ND	30 µg/L	48 Bromoform	ND	30 µg/L
5 Bromomethane	ND	120 µg/L	49 Styrene	ND	30 µg/L
6 Trichlorofluoromethane	ND	30 µg/L	50 o-Xylene	ND	15 µg/L
7 Acetone	ND	600 µg/L	51 1,1,2,2-Tetrachloroethane	ND	30 µg/L
8 1,1-Dichloroethene	ND	30 µg/L	52 1,2,3-Trichloropropane	ND	120 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	300 µg/L	53 Isopropylbenzene	30	30 µg/L
10 Dichloromethane	ND	120 µg/L	54 Bromobenzene	ND	30 µg/L
11 Freon-113	ND	30 µg/L	55 n-Propylbenzene	62	30 µg/L
12 Carbon disulfide	ND	150 µg/L	56 4-Chlorotoluene	ND	30 µg/L
13 trans-1,2-Dichloroethene	ND	30 µg/L	57 2-Chlorotoluene	ND	30 µg/L
14 Methyl tert-butyl ether (MTBE)	31	15 µg/L	58 1,3,5-Trimethylbenzene	ND	30 µg/L
15 1,1-Dichloroethane	ND	30 µg/L	59 tert-Butylbenzene	ND	30 µg/L
16 Vinyl acetate	ND	3,000 µg/L	60 1,2,4-Trimethylbenzene	ND	30 µg/L
17 2-Butanone (MEK)	ND	600 µg/L	61 sec-Butylbenzene	ND	30 µg/L
18 Di-isopropyl Ether (DIPE)	30	30 µg/L	62 1,3-Dichlorobenzene	ND	30 µg/L
19 cis-1,2-Dichloroethene	ND	30 µg/L	63 1,4-Dichlorobenzene	ND	30 µg/L
20 Bromochloromethane	ND	30 µg/L	64 4-Isopropyltoluene	ND	30 µg/L
21 Chloroform	ND	30 µg/L	65 1,2-Dichlorobenzene	ND	30 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	30 µg/L	66 n-Butylbenzene	ND	30 µg/L
23 2,2-Dichloropropane	ND	30 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	180 µg/L
24 1,2-Dichloroethane	ND	30 µg/L	68 1,2,4-Trichlorobenzene	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	30 µg/L	69 Naphthalene	ND	120 µg/L
26 1,1-Dichloropropene	ND	30 µg/L	70 1,2,3-Trichlorobenzene	ND	120 µg/L
27 Carbon tetrachloride	ND	30 µg/L	71 Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC
28 Benzene	3,000	15 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	30 µg/L	73 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
30 Dibromomethane	ND	30 µg/L			
31 1,2-Dichloropropane	ND	30 µg/L			
32 Trichloroethene	ND	30 µg/L			
33 Bromodichloromethane	ND	30 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	150 µg/L			
35 cis-1,3-Dichloropropene	ND	30 µg/L			
36 trans-1,3-Dichloropropene	ND	30 µg/L			
37 1,1,2-Trichloroethane	ND	30 µg/L			
38 Toluene	ND	15 µg/L			
39 1,3-Dichloropropane	ND	30 µg/L			
40 2-Hexanone	ND	300 µg/L			
41 Dibromochloromethane	ND	30 µg/L			
42 1,2-Dibromoethane (EDB)	ND	120 µg/L			
43 Tetrachloroethene	ND	30 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	30 µg/L			

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

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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



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ANALYTICAL REPORT

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Job#: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
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Alpha Analytical Number: GMT09042105-06A
Client I.D. Number: DUP-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	39	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	16	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	5.0	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)	23	20 µg/L	53 Isopropylbenzene	11	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	15	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	22	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	3.7	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	13	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	96	(70-130) %REC
28 Benzene	72	1.0 µg/L	72 Surr: Toluene-d8	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	93	(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	1.4	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	8.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

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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4/29/09

Report Date



Alpha Analytical, Inc.

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

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

ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-07A
Client I.D. Number: PW-3

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	0.64	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	95	(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	92	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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

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4/29/09

Report Date



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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-08A
Client I.D. Number: HL-2

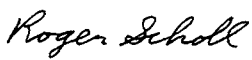

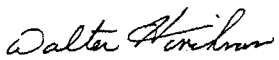
Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	94	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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4/29/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-09A
Client I.D. Number: MW-SF-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	340	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	170	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	91	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)	340	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	94	(70-130) %REC
28 Benzene	7,500	50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	91	(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	210	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	400 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.

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

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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4/29/09

Report Date



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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-10A
Client I.D. Number: TB-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	92	(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	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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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

4/29/09

Report Date



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-11A
Client I.D. Number: EB-2

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	89	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Report Date



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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-12A
Client I.D. Number: GMW-2



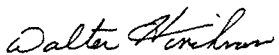
Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	93	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	94	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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4/29/09

Report Date



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-13A
Client I.D. Number: HL-3

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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)	1.2	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	95	(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	90	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Page 1 of 1



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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-14A
Client I.D. Number: PW-1

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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	93	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	94	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
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Newport Beach, CA 926633627
Job#: KMEP Norwalk

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

Alpha Analytical Number: GMT09042105-15A
Client I.D. Number: GMW-27

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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)	450	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	4.2	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)	10	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	1.8	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	90	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

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 / info@alpha-analytical.com

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4/29/09

Report Date



Alpha Analytical, Inc.

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

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

ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-16A
Client I.D. Number: MW-19 (MID)

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

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)	66	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)	0.81	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)	9.8	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	3.8	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	87	(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	90	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected

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

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4/29/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-17A
Client I.D. Number: MW-7

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.60	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)	2.9	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	2.1	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	87	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

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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4/29/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-18A
Client I.D. Number: MW-21 (MID)

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

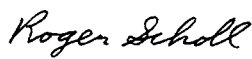

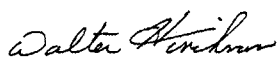
Volatile Organics by GC/MS EPA Method SW8260B

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	4.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	1.0 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	4.0 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	20 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	4.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	25	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	5.0 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)	1.9	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	100 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	20 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	2.3	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	6.0 µg/L
24 1,2-Dichloroethane	2.3	1.0 µg/L	68 1,2,4-Trichlorobenzene	ND	4.0 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	4.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	91	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	1.0 µg/L			
36 trans-1,3-Dichloropropene	ND	1.0 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	10 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

Some Reporting Limits were increased due to sample foaming.

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

ND = Not Detected




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4/29/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09042105-19A
Client I.D. Number: TB-2

Sampled: 04/20/09
Received: 04/21/09
Analyzed: 04/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	89	(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	94	(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			

*Note: 2,2-Dichloropropane failed the method CV criteria at 67.4%, with a criterion of 68-153%.

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 / info@alpha-analytical.com

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.

4/29/09

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: GMT09042105

Project: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09042105-01A	EB-1	Aqueous	2
09042105-02A	GMW-3	Aqueous	2
09042105-03A	PZ-10	Aqueous	2
09042105-04A	GMW-1	Aqueous	2
09042105-05A	GWR-1	Aqueous	2
09042105-06A	DUP-1	Aqueous	2
09042105-07A	PW-3	Aqueous	2
09042105-08A	HL-2	Aqueous	2
09042105-09A	MW-SF-1	Aqueous	2
09042105-10A	TB-1	Aqueous	2
09042105-11A	EB-2	Aqueous	2
09042105-12A	GMW-2	Aqueous	2
09042105-13A	HL-3	Aqueous	2
09042105-14A	PW-1	Aqueous	2
09042105-15A	GMW-27	Aqueous	2
09042105-16A	MW-19 (MID)	Aqueous	2
09042105-17A	MW-7	Aqueous	2
09042105-18A	MW-21 (MID)	Aqueous	2
09042105-19A	TB-2	Aqueous	2

4/29/09
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:
27-Apr-09

QC Summary Report

Work Order:
09042105

Method Blank

Method Blank		Type	Test Code: EPA Method SW8015 / E							
File ID:			Batch ID: 21854				Analysis Date: 04/23/2009 13:31			
Sample ID:	MBLK-21854	Units : mg/L	Run ID: FID_1_090422A				Prep Date: 04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	126		100		126	57	147			

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015 / E							
File ID:			Batch ID: 21854				Analysis Date: 04/23/2009 13:06			
Sample ID:	LCS-21854	Units : mg/L	Run ID: FID_1_090422A				Prep Date: 04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.34	0.5	2.5		93	67	130			
Surr: Nonane	125		100		125	57	147			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015 / E							
File ID:			Batch ID: 21854				Analysis Date: 04/23/2009 14:46			
Sample ID:	09042151-02AMS	Units : mg/L	Run ID: FID_1_090422A				Prep Date: 04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.63	0.5	2.5	0.42	88	49	150			
Surr: Nonane	126		100		126	57	147			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015 / E							
File ID:			Batch ID: 21854				Analysis Date: 04/23/2009 15:11			
Sample ID:	09042151-02AMSD	Units : mg/L	Run ID: FID_1_090422A				Prep Date: 04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.31	0.5	2.5	0.42	76	49	150	2.629	12.8(38)	
Surr: Nonane	128		100		128	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:
27-Apr-09

QC Summary Report

Work Order:
09042105

Method Blank

Method Blank		Type	Test Code: EPA Method SW8015B							
File ID: 09042341.D		MBLK	Batch ID: MS15W0423D				Analysis Date: 04/23/2009 23:15			
Sample ID:	MBLK MS15W0423D	Units : mg/L	Run ID: MSD_15_090423B				Prep Date: 04/23/2009			
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	0.00924		0.01		92	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0096		0.01		96	70	130			

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B							
File ID: 09042335.D		LCS	Batch ID: MS15W0423D				Analysis Date: 04/23/2009 21:01			
Sample ID:	GLCS MS15W0423D	Units : mg/L	Run ID: MSD_15_090423B				Prep Date: 04/23/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.356	0.05	0.4		89	70	130			
Surr: 1,2-Dichloroethane-d4	0.00961		0.01		96	70	130			
Surr: Toluene-d8	0.00981		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.00923		0.01		92	70	130			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B							
File ID: 09042344.D		MS	Batch ID: MS15W0423D				Analysis Date: 04/24/2009 00:22			
Sample ID:	09042105-16AGS	Units : mg/L	Run ID: MSD_15_090423B				Prep Date: 04/24/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.76	0.25	2	0	88	58	135			
Surr: 1,2-Dichloroethane-d4	0.0478		0.05		96	70	130			
Surr: Toluene-d8	0.0496		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0464		0.05		93	70	130			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B							
File ID: 09042345.D		MSD	Batch ID: MS15W0423D				Analysis Date: 04/24/2009 00:44			
Sample ID:	09042105-16AGSD	Units : mg/L	Run ID: MSD_15_090423B				Prep Date: 04/24/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.82	0.25	2	0	91	58	135	1.762	3.0(20)	
Surr: 1,2-Dichloroethane-d4	0.048		0.05		96	70	130			
Surr: Toluene-d8	0.0492		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0464		0.05		93	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:
27-Apr-09

QC Summary Report

Work Order:
09042105

Method Blank

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

File ID: **09042341.D**

Batch ID: **MS15W0423C**

Analysis Date: **04/23/2009 23:15**

Sample ID: **MBLK MS15W0423C**

Units : **µg/L**

Run ID: **MSD_15_090423B**

Prep Date: **04/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND		1							
Chloromethane	ND		2							
Vinyl chloride	ND		0.5							
Chloroethane	ND		1							
Bromomethane	ND		2							
Trichlorofluoromethane	ND		10							
Acetone	ND		10							
1,1-Dichloroethene	ND		1							
Tertiary Butyl Alcohol (TBA)	ND		10							
Dichloromethane	ND		5							
Freon-113	ND		10							
Carbon disulfide	ND		2.5							
trans-1,2-Dichloroethene	ND		1							
Methyl tert-butyl ether (MTBE)	ND		0.5							
1,1-Dichloroethane	ND		1							
Vinyl acetate	ND		50							
2-Butanone (MEK)	ND		10							
Di-isopropyl Ether (DIPE)	ND		1							
cis-1,2-Dichloroethene	ND		1							
Bromochloromethane	ND		1							
Chloroform	ND		1							
Ethyl Tertiary Butyl Ether (ETBE)	ND		1							
2,2-Dichloropropane	ND		1							
1,2-Dichloroethane	ND		0.5							
1,1,1-Trichloroethane	ND		1							
1,1-Dichloropropene	ND		1							
Carbon tetrachloride	ND		1							
Benzene	ND		0.5							
Tertiary Amyl Methyl Ether (TAME)	ND		1							
Dibromomethane	ND		1							
1,2-Dichloropropane	ND		1							
Trichloroethene	ND		1							
Bromodichloromethane	ND		1							
4-Methyl-2-pentanone (MIBK)	ND		10							
cis-1,3-Dichloropropene	ND		0.5							
trans-1,3-Dichloropropene	ND		0.5							
1,1,2-Trichloroethane	ND		1							
Toluene	ND		0.5							
1,3-Dichloropropane	ND		1							
2-Hexanone	ND		5							
Dibromochloromethane	ND		1							
1,2-Dibromoethane (EDB)	ND		2							
Tetrachloroethene	ND		1							
1,1,1,2-Tetrachloroethane	ND		1							
Chlorobenzene	ND		1							
Ethylbenzene	ND		0.5							
m,p-Xylene	ND		0.5							
Bromoform	ND		1							
Styrene	ND		1							
o-Xylene	ND		0.5							
1,1,2,2-Tetrachloroethane	ND		1							
1,2,3-Trichloropropane	ND		2							
Isopropylbenzene	ND		1							
Bromobenzene	ND		1							
n-Propylbenzene	ND		1							
4-Chlorotoluene	ND		1							
2-Chlorotoluene	ND		1							
1,3,5-Trimethylbenzene	ND		1							
tert-Butylbenzene	ND		1							
1,2,4-Trimethylbenzene	ND		1							
sec-Butylbenzene	ND		1							
1,3-Dichlorobenzene	ND		1							
1,4-Dichlorobenzene	ND		1							
4-Isopropyltoluene	ND		1							
1,2-Dichlorobenzene	ND		1							



Alpha Analytical, Inc.

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Date: 27-Apr-09 **QC Summary Report** Work Order: 09042105

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	9.24		10		92	70	130		
Surr: Toluene-d8	10.1		10		101	70	130		
Surr: 4-Bromofluorobenzene	9.6		10		96	70	130		

Laboratory Control Spike

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

File ID: **09042337.D**

Batch ID: **MS15W0423C**

Analysis Date: **04/23/2009 21:45**

Sample ID: **LCS MS15W0423C**

Units: **µg/L**

Run ID: **MSD_15_090423B**

Prep Date: **04/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	11.3	1	10		113	80	120			
Methyl tert-butyl ether (MTBE)	8.04	0.5	10		80	62	136			
Benzene	9.61	0.5	10		96	70	130			
Trichloroethene	12.2	1	10		122	70	130			
Toluene	10.2	0.5	10		102	80	120			
Chlorobenzene	9.76	1	10		98	70	130			
Ethylbenzene	10	0.5	10		100	80	120			
m,p-Xylene	10.6	0.5	10		106	70	130			
o-Xylene	10.1	0.5	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	8.54		10		85	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Sample Matrix Spike

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

File ID: **09042342.D**

Batch ID: **MS15W0423C**

Analysis Date: **04/23/2009 23:37**

Sample ID: **09042105-16AMS**

Units: **µg/L**

Run ID: **MSD_15_090423B**

Prep Date: **04/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	52.3	2.5	50		0	105	60	130		
Methyl tert-butyl ether (MTBE)	40.4	1.3	50	0.81	79	56	141			
Benzene	44.4	1.3	50		0	89	67	130		
Trichloroethene	51.6	2.5	50		0	103	69	130		
Toluene	47.5	1.3	50		0	95	66	130		
Chlorobenzene	46	2.5	50		0	92	70	130		
Ethylbenzene	46.6	1.3	50		0	93	68	130		
m,p-Xylene	48.5	1.3	50		0	97	64	130		
o-Xylene	47.3	1.3	50		0	95	70	130		
Surr: 1,2-Dichloroethane-d4	43.9		50			88	70	130		
Surr: Toluene-d8	50.1		50			100	70	130		
Surr: 4-Bromofluorobenzene	49		50			98	70	130		

Sample Matrix Spike Duplicate

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

File ID: **09042343.D**

Batch ID: **MS15W0423C**

Analysis Date: **04/23/2009 23:59**

Sample ID: **09042105-16AMSD**

Units: **µg/L**

Run ID: **MSD_15_090423B**

Prep Date: **04/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	54.4	2.5	50		0	109	60	130	52.33	3.9(20)
Methyl tert-butyl ether (MTBE)	41.7	1.3	50	0.81	82	56	141	40.42	3.2(20)	
Benzene	46.5	1.3	50		0	93	67	130	44.4	4.6(20)
Trichloroethene	54.3	2.5	50		0	109	69	130	51.63	5.0(20)
Toluene	49.5	1.3	50		0	99	66	130	47.5	4.2(20)
Chlorobenzene	48	2.5	50		0	96	70	130	46.01	4.3(20)
Ethylbenzene	48.8	1.3	50		0	98	68	130	46.6	4.7(20)
m,p-Xylene	51.4	1.3	50		0	103	64	130	48.54	5.7(20)
o-Xylene	49.4	1.3	50		0	99	70	130	47.28	4.4(20)
Surr: 1,2-Dichloroethane-d4	44.3		50			89	70	130		
Surr: Toluene-d8	50.2		50			100	70	130		
Surr: 4-Bromofluorobenzene	50.6		50			101	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:

27-Apr-09

QC Summary Report

Work Order:

09042105

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA **AMENDED #2**

Alpha Analytical, Inc.

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

WorkOrder : GMT09042105

Report Due By : 5:00 PM On : 30-Apr-2009

Client:

AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

Report Attention

Shiow-Wei Chou (949) 642-0245 x shiow-wei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Email Address

EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

Cooler Temp

Samples Received

Date Printed

4 °C

21-Apr-2009

22-Apr-2009

Newport Beach, CA 92663-3627

PO :

Client's COC # : none

Job : KMEP Norwalk

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W	TPMP_W	VOC_W		
GMT09042105-09A	MW-SF-1	AQ 04/20/09 12:40	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	
GMT09042105-10A	TB-1	AQ 04/20/09 07:00	2	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	Reno Trip Blank 2/2/09
GMT09042105-11A	EB-2	AQ 04/20/09 14:00	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	
GMT09042105-12A	GMW-2	AQ 04/20/09 13:45	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	
GMT09042105-13A	HL-3	AQ 04/20/09 12:45	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	
GMT09042105-14A	PW-1	AQ 04/20/09 10:30	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	
GMT09042105-15A	GMW-27	AQ 04/20/09 09:00	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	
GMT09042105-16A	MW-19 (MID)	AQ 04/20/09 11:05	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	

Comments:

Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. : Amended 4/21/09 @ 15:29. Per email from Alex Padilla deleted TPH/P and TPMP from samples -10A and -19A as well as added oxyx to all samples. EA Amended 4/22/09 @ 12:28. Corrected sample ID for -03A due to login error. EA

Logged in by:

Elizabeth Adcox

Signature

Elizabeth Adcox

Print Name

Alpha Analytical, Inc.

Company

4-22-09 1231

Date/Time

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

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

AMENDED #2
Page: 1 of 3

Alpha Analytical, Inc.

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

WorkOrder : GMT09042105

Report Due By : 5:00 PM On : 30-Apr-2009

Client:

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200

Report Attention

Show-Whei Chou (949) 642-0245 x shiow-whei.chou@amec.com
Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Phone Number

EMAIL Address

Newport Beach, CA 92663-3627

EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

Cooler Temp

4 °C

Samples Received

21-Apr-2009

Date Printed

22-Apr-2009

PO :

Client's COC # : none

Job : KMEP Norwalk

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W +Vinyl acetate	TPHP_W +Vinyl acetate	VOC_W +Vinyl acetate		
GMT09042105-01A	EB-1	AQ 04/20/09 14:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-02A	GMW-3	AQ 04/20/09 13:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-03A	PZ-10	AQ 04/20/09 12:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-04A	GMW-1	AQ 04/20/09 11:20	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-05A	GWR-1	AQ 04/20/09 10:40	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-06A	DUP-1	AQ 04/20/09 00:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-07A	PW-3	AQ 04/20/09 10:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	1 voa labeled PW-2 matched up by sample time and logged in per COC.
GMT09042105-08A	HL-2	AQ 04/20/09 09:15	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments:

Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to
 Hlorganics being placed on separate chain per client notes. Amended 4/21/09 @ 15:29. Per email from Alex Padilla deleted TPH/P and TPHP from samples -10A and -19A as well as added oxyx
 to all samples. FA Amended 4/22/09 @ 12:28. Corrected sample ID for -03A due to login error. FA

Logged in by:

Capobianco

Signature

Print Name

Elizabeth Adcox

Company

Alpha Analytical, Inc.

Date/Time

4-22-09 1231

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

AMENDED #2

Alpha Analytical, Inc.

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

WorkOrder : GMTCC09042105

Report Due By : 5:00 PM On : 30-Apr-2009

Client:

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200

Report Attention

Show-Wei Chou (949) 642-0245 x shiow-wei.chou@amec.com
Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Phone Number

Email Address

Newport Beach, CA 92663-3627

EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : none

Job : KMEP Norwalk

4 °C

21-Apr-2009

22-Apr-2009

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

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests			Sample Remarks
						TPHE_W	TPHP_W	VOC_W	

GMT09042105-17A	MW-7	AQ 04/20/09 11:35	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate		
GMT09042105-18A	MW-21 (MID)	AQ 04/20/09 12:12	6	0	7	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate	TPHE(10) +Vinyl acetate		
GMT09042105-19A	TB-2	AQ 04/20/09 07:45	2	0	7			TPHE(10) +Vinyl acetate		Reno Trip Blank (1) 2/23/09 (1) 2/2/09

Comments:

Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. Amended 4/21/09 @ 15:29. Per email from Alex Padilla deleted TPH/P and TPH/fp from samples -10A and -19A as well as added oxyx to all samples. EA Amended 4/22/09 @ 12:28. Corrected sample ID for -03A due to login error. EA

Logged in by:

Elizabeth Adcox

Signature

Elizabeth Adcox

Print Name

Alpha Analytical, Inc.

Company

4:22:09 1231

Date/Time

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

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA AMENDED

Alpha Analytical, Inc.

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

WorkOrder : GMTTC09042105
Report Due By : 5:00 PM On : 30-Apr-2009

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

Report Attention Show-Wei Chou (949) 642-0245 x show-wei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report Due By : EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

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

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	TPHE_W	TPHP_W	VOC_W	Requested Tests	Sample Remarks
GMT09042105-01A	EB-1	AQ 04/20/09 14:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-02A	GMW-3	AQ 04/20/09 13:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-03A	P2-10	AQ 04/20/09 12:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-04A	GMW-1	AQ 04/20/09 11:20	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-05A	GWR-1	AQ 04/20/09 10:40	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-06A	DUP-1	AQ 04/20/09 00:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-07A	PW-3	AQ 04/20/09 10:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	1 voa labeled PW-2 matched up by sample time and logged in per COC.
GMT09042105-08A	HL-2	AQ 04/20/09 09:15	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. Amended 4/21/09 @ 15:29. Per email from Alex Padilla deleted TPHP/P and TPHE/Ip from samples -10A and -19A as well as added oxyx to all samples. EA

Logged in by: *Caprieth Adcox* *Elizabeth Adcox*
 Signature Print Name
 Company Alpha Analytical, Inc. Date/Time 4-21-09 1538

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) WSG(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

AMENDED

Alpha Analytical, Inc.

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

WorkOrder : GMTTC09042105
Report Due By : 5:00 PM On : 30-Apr-2009

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

EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

Cooler Temp

Samples Received

Date Printed

4 °C

21-Apr-2009

21-Apr-2009

Client's COC # : none = Final Rpt, MBLK, LCS, MS/MSD with Surrogates
 Job : KMEP Norwalk

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests	Sample Remarks
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GMT09042105-09A	MW-SF-1	AQ 04/20/09 12:40	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													
GMT09042105-10A	TB-1	AQ 04/20/09 07:00	2	0	7			TPHE(0.10) +Vinyl acetate													Reno Trip Blank 2/2/09
GMT09042105-11A	EB-2	AQ 04/20/09 14:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													
GMT09042105-12A	GMW-2	AQ 04/20/09 13:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													
GMT09042105-13A	HL-3	AQ 04/20/09 12:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													
GMT09042105-14A	PW-1	AQ 04/20/09 10:30	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													
GMT09042105-15A	GMW-27	AQ 04/20/09 09:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													
GMT09042105-16A	MW-19 (MID)	AQ 04/20/09 11:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate													

Comments: Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. Amended 4/21/09 @ 15:29. Per email from Alex Padilla deleted TPH/P and TPH/Pp from samples -10A and -19A as well as added oxys to all samples. EA

Logged in by: Elizabeth Alder Signature: [Signature] Print Name: Elizabeth Alder
 Company: Alpha Analytical, Inc. Date/Time: 4-21-09 1538

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA AMENDED

Alpha Analytical, Inc.

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

WorkOrder : GMTCC09042105
Report Due By : 5:00 PM On : 30-Apr-2009

Report Attention	Phone Number	Email Address
Show -Wei Chou	(949) 642-0245 x	show-wei.chou@annec.com
Thandar Phyu	(949) 642-0245 x 7630	thandar.phyu@annec.com

EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

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

Job : KMEP Norwalk

Cooler Temp 4 °C Samples Received 21-Apr-2009 Date Printed 21-Apr-2009

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	TPHE_W	TPHP_W		VOC_W
GMT09042105-17A	MW-7	AQ 04/20/09 11:35	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-18A	MW-21 (MID)	AQ 04/20/09 12:12	6	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-19A	TB-2	AQ 04/20/09 07:45	2	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	Reno Trip Blank (1)2/23/09 (1) 2/2/09

Comments: Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. Amended 4/21/09 @ 15:29. Per email from Alex Padilla deleted TPHP/P and TPHP/fp from samples -10A and -19A as well as added oxyx to all samples. EA

Logged in by: Elizabeth Adcox Signature: Elizabeth Adcox Print Name: Elizabeth Adcox Company: Alpha Analytical, Inc. Date/Time: 4-21-09 1538

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.

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

WorkOrder : GMT09042105

Report Due By : 5:00 PM On : 30-Apr-2009

Client:

AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

Report Attention

Shiow-Whel Chou (949) 642-0245 x shiow-whel.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Email Address

EDD Required : Yes

Sampled by : T. Rhymes, B. Barker

Cooler Temp

Samples Received

Date Printed

4 °C

21-Apr-2009

21-Apr-2009

QC Level : S3

= Final Rpt. MBLK, LCS, MS/MSD with Surrogates

Job : KMEP Norwalk

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	TPHE_W	TPHF_W	VOC_W	Requested Tests	Sample Remarks
GMT09042105-01A	EB-1	AQ 04/20/09 14:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-02A	GMW-3	AQ 04/20/09 13:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-03A	P2-10	AQ 04/20/09 12:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-04A	GMW-1	AQ 04/20/09 11:20	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-05A	GWR-1	AQ 04/20/09 10:40	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-06A	DUP-1	AQ 04/20/09 00:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-07A	PW-3	AQ 04/20/09 10:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	1 voa labeled PW-2 matched up by sample time and logged in per COC.
GMT09042105-08A	HL-2	AQ 04/20/09 09:15	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. .

Logged in by: Elizabeth Adcox Signature: Elizabeth Adcox Print Name: Elizabeth Adcox Company: Alpha Analytical, Inc. Date/Time: 4-21-09 1035

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

CA

WorkOrder : GMT09042105
Report Due By : 5:00 PM On : 30-Apr-2009

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

Report Attention Phone Number Email Address
 Show-Whet Chou (949) 642-0245 x show-whet.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

EDD Required : Yes

Client's COC # : none
 Job : KMEP Norwalk

Sampled by : T. Rhymes, B. Barker
 Cooler Temp Samples Received Date Printed
 4°C 21-Apr-2009 21-Apr-2009

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W	TPHP_W	VOC_W	
GMT09042105-09A	MMW-SF-1	AQ 04/20/09 12:40	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-10A	TB-1	AQ 04/20/09 07:00	2 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	Reno Trip Blank 2/2/09
GMT09042105-11A	EB-2	AQ 04/20/09 14:00	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-12A	GMW-2	AQ 04/20/09 13:45	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-13A	HL-3	AQ 04/20/09 12:45	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-14A	PW-1	AQ 04/20/09 10:30	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-15A	GMW-27	AQ 04/20/09 09:00	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09042105-16A	MMW-19 (MID)	AQ 04/20/09 11:05	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes. :

Logged In by: Elizabeth Adcox Signature: Elizabeth Adcox Print Name: Elizabeth Adcox Company: Alpha Analytical, Inc. Date/Time: 4-21-09 1635

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : GMTFC09042105
Report Due By : 5:00 PM On : 30-Apr-2009

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

Report Attention Phone Number Email Address
 Show-Whet Chou (949) 642-0245 x show-whet.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

EDD Required : Yes

Sampled by : T. Rhyms, B. Barker

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

Cooler Temp 4 °C Samples Received 21-Apr-2009 Date Printed 21-Apr-2009

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests	Sample Remarks
			Alpha	Sub TAT		
GMT09042105-17A	NW-7	AQ 04/20/09 11:35	6	0 7	TPHE(0.10) +Vinyl acetate TPHE(0.10) +Vinyl acetate VOC_W	
GMT09042105-18A	NW-21 (MID)	AQ 04/20/09 12:12	6	0 7	TPHE(0.10) +Vinyl acetate TPHE(0.10) +Vinyl acetate VOC_W	
GMT09042105-19A	TB-2	AQ 04/20/09 07:45	2	0 7	TPHE(0.10) +Vinyl acetate TPHE(0.10) +Vinyl acetate TPHE(0.10) +Vinyl acetate	Reno Trip Blank (1)2/23/09 (1) 2/2/09

Comments: Security seals intact. Frozen ice. Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Chain split into two separate workorders due to inorganics being placed on separate chain per client notes.

Logged in by: Campebeth Adcox Signature Elizabeth Adcox Print Name Elizabeth Adcox Company Alpha Analytical, Inc. Date/Time 4.21.09 1035

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 : AQA(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

CHAIN OF CUSTODY

CLIENT: Kinder Morgan
 SITE: Norwalk
 15306 Norwalk Blvd, Norwalk

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX AQ = Water	#	Preservation	Type	CONDUCT ANALYSIS TO DETECT							ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
							TPHg, TPHfp (EPA 8015M)	VOC's, TBA, MTBE (EPA 8260B)	Ferrous Iron (3500-F-ED)	Alkalinity (SM 2320B)	Diss. Manganese EPA 200.8/SW6020)	Diss. Methane & Carbon Dioxide (RSK175M)	Sulfate (EPA 300.0)				
ER-1	4.20.09	1400	AQ	6	Ice	VOR	X	X									GM1090721501
GMW-3		1345		6	Ice	VOR	X	X									
P2-10		1205		6	Ice	VOR	X	X									
GMW-1		1120		6	Ice	VOR	X	X									
GMW-1		1040		6	Ice	VOR	X	X									
DUR-1				6	Ice	VOR	X	X									
PW-3		1000		6	Ice	VOR	X	X									
HL-2		0915		6	Ice	VOR	X	X									
MW-SE-1		1240		16	Ice	VOR	X	X									
TE-1		0700		2	Ice	VOR	X	X									

SAMPLING DATE: 4/20/09 1430
 TIME: 1500
 SAMPLING PERFORMED BY: T. CHAPMAN, B. BAEKOR

RESULTS NEEDED: Standard

LAB: Alpha Analytical COC 1 of 2
 Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

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

RELEASED BY: [Signature]
 TIME: 1500
 RECEIVED BY: [Signature]
 DATE: 4.20.09
 TIME: 1500

RELEASED BY: [Signature]
 TIME: 1500
 RECEIVED BY: Campbell Oldroyd
 DATE: 4.21.09
 TIME: 1035

SHIPPED VIA: [Blank]
 TIME SENT: [Blank]
 COOLER #: [Blank]

BLAINE

TECH SERVICES, INC

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

Alpha Analytical COC² of²

CHAIN OF CUSTODY

CLIENT: Kinder Morgan
 SITE: Norwalk
 15306 Norwalk Blvd, Norwalk

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

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

SAMPLE I.D.	DATE	TIME	MATRIX AO# Water	#	CONTAINERS		CONDUCT ANALYSIS TO DETECT							LAB	ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					Preservation	Type	TPHg, TPHfp (EPA 8015M)	VOC's, TBA, MTBE (EPA 8260B)	Ferrous Iron (3500-F-ED)	Alkalinity (SM 2320B)	Diss. Manganese EPA 200.8/SW6020)	Diss. Methane & Carbon Dioxide (RSK175M)	Sulfate (EPA 300.0)					
EB-2	4/20/09	1400	KR	6	ACCL	VOR	X	X	X	X	X	X	X				-11	
GMW-2		1345		6	ACCL	VOR	X	X									-12	
HL-3		1245		6	ACCL	VOR	X	X									-13	
PV-1		1030		6	ACCL	VOR	X	X									-14	
GMN-27		0900		16	ACCL	VOR	X	X	X	X	X	X					-15	
MW-14 (MID)		1105		6	ACCL	VOR	X	X									-16	
MW-7		1135		6	ACCL	VOR	X	X									-17	
MW-21 (MID)		1212		6	ACCL	VOR	X	X									-18	
TB-2		0745		6	ACCL	VOR	X	X									-19	

SAMPLING DATE: 4/20/09 TIME: 1430
 COMPLETED BY: F. RATHY (MS), B. SPARKER

RELEASED BY: [Signature] TIME: 1500
 RECEIVED BY: [Signature] TIME: 1500

RELEASED BY: [Signature] TIME: 1500
 RECEIVED BY: [Signature] TIME: 1535

SHIPPED VIA: [Blank] TIME SENT: [Blank] COOLER #: [Blank]

RESULTS NEEDED: Standard



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

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

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

Anions by IC
EPA Method 300.0 / 9056

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID: MW-SF-1	Nitrite (NO2) - N	ND	0.25 mg/L	04/20/09 12:40	04/21/09 22:05
Lab ID: GMT09042106-01A	Nitrate (NO3) - N	ND	0.25 mg/L	04/20/09 12:40	04/21/09 22:05
Client ID: GMW-27	Nitrite (NO2) - N	ND	0.25 mg/L	04/20/09 09:00	04/21/09 22:23
Lab ID: GMT09042106-02A	Nitrate (NO3) - N	ND	0.25 mg/L	04/20/09 09:00	04/21/09 22:23

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 / info@alpha-analytical.com

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.

4/29/09

Report Date



Alpha Analytical, Inc.

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Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

Anions by IC
EPA Method 300.0 / 9056

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID: MW-SF-1				
Lab ID: GMT09042106-01A Sulfate (SO4)	39	0.50 mg/L	04/20/09	04/21/09
Client ID: GMW-27				
Lab ID: GMT09042106-02A Sulfate (SO4)	180	5.0 mg/L	04/20/09	04/22/09

Roger Scholl

Randy Gardner

Walter Hinchman

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Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

Alkalinity
SM2320B

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID: MW-SF-1 Lab ID: GMT09042106-01A Alkalinity, Total (As CaCO ₃ at pH 4.5)	850	10 mg/L	04/20/09	04/21/09
Client ID: GMW-27 Lab ID: GMT09042106-02A Alkalinity, Total (As CaCO ₃ at pH 4.5)	820	10 mg/L	04/20/09	04/21/09

Roger Scholl

Randy Gardner

Walter Hinchman

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Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

Iron by Spectrophotometer
SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-SF-1				
Lab ID : GMT09042106-01A Iron, Ferrous (+2)	0.61	0.050 mg/L	04/20/09	04/22/09
Client ID : GMW-27				
Lab ID : GMT09042106-02A Iron, Ferrous (+2)	2.2	0.050 mg/L	04/20/09	04/22/09

Ferrous iron samples were color developed promptly after laboratory login.

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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Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

Dissolved Metals by ICPMS
EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-SF-1 Lab ID : GMT09042106-01A Manganese (Mn), Dissolved	2.5	0.0050 mg/L	04/20/09	04/23/09
Client ID : GMW-27 Lab ID : GMT09042106-02A Manganese (Mn), Dissolved	1.4	0.0050 mg/L	04/20/09	04/24/09

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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C
4/29/09

Report Date



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Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 04/21/09

Job#: KMEP Norwalk

Dissolved Gases

Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : MW-SF-1				
Lab ID : GMT09042106-01A Methane	6.6	0.010 mg/L	04/20/09	04/27/09
Client ID : GMW-27				
Lab ID : GMT09042106-02A Methane	4.6	0.010 mg/L	04/20/09	04/27/09

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4/29/09

Report Date



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Date:
27-Apr-09

QC Summary Report

Work Order:
09042106

Method Blank

Method Blank		Type	Test Code: EPA Method 300.0 / 9056							
File ID: 18		MBLK	Batch ID: 21852A				Analysis Date: 04/21/2009 12:44			
Sample ID: MB-21852	Units : mg/L		Run ID: IC_1_090421A				Prep Date: 04/21/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	0.25								
Nitrate (NO3) - N	ND	0.25								

Laboratory Fortified Blank

Laboratory Fortified Blank		Type	Test Code: EPA Method 300.0 / 9056							
File ID: 19		LFB	Batch ID: 21852A				Analysis Date: 04/21/2009 13:02			
Sample ID: LFB-21852	Units : mg/L		Run ID: IC_1_090421A				Prep Date: 04/21/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1.23	0.25	1.25		98	90	110			
Nitrate (NO3) - N	1.29	0.25	1.25		103	90	110			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method 300.0 / 9056							
File ID: 25		LFM	Batch ID: 21852A				Analysis Date: 04/21/2009 15:18			
Sample ID: 09042107-01ALFM	Units : mg/L		Run ID: IC_1_090421A				Prep Date: 04/21/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1.27	0.25	1.25		0 101	80	120			
Nitrate (NO3) - N	1.32	0.25	1.25		0 105	80	120			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 300.0 / 9056							
File ID: 26		LFMD	Batch ID: 21852A				Analysis Date: 04/21/2009 15:36			
Sample ID: 09042107-01ALFMD	Units : mg/L		Run ID: IC_1_090421A				Prep Date: 04/21/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1.3	0.25	1.25		0 104	80	120	1.266	2.4(10)	
Nitrate (NO3) - N	1.3	0.25	1.25		0 104	80	120	1.317	1.6(10)	

Comments:

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



Alpha Analytical, Inc.

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Date:
27-Apr-09

QC Summary Report

Work Order:
09042106

Method Blank

File ID:	Type	Test Code:								
18	MBLK	EPA Method 300.0 / 9056								
Sample ID: MB-21852	Units : mg/L	Run ID: IC_1_090421A	Batch ID: 21852B	Analysis Date: 04/21/2009 12:44						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

File ID:	Type	Test Code:								
19	LFB	EPA Method 300.0 / 9056								
Sample ID: LFB-21852	Units : mg/L	Run ID: IC_1_090421A	Batch ID: 21852B	Analysis Date: 04/21/2009 13:02						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	9.7	0.5	10		97	90	110			

Sample Matrix Spike

File ID:	Type	Test Code:								
25	LFM	EPA Method 300.0 / 9056								
Sample ID: 09042107-01ALFM	Units : mg/L	Run ID: IC_1_090421A	Batch ID: 21852B	Analysis Date: 04/21/2009 15:18						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	57.3	0.5	10	48.88	84	80	120			

Sample Matrix Spike Duplicate

File ID:	Type	Test Code:								
26	LFMD	EPA Method 300.0 / 9056								
Sample ID: 09042107-01ALFMD	Units : mg/L	Run ID: IC_1_090421A	Batch ID: 21852B	Analysis Date: 04/21/2009 15:36						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	58.9	0.5	10	48.88	101	80	120	57.26	2.9(10)	

Comments:

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Date:
22-Apr-09

QC Summary Report

Work Order:
09042106

Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0421AL**

Analysis Date: **04/21/2009 00:00**

Sample ID: **LCS-W0421AL**

Units : **mg/L**

Run ID: **WETLAB_090421B**

Prep Date: **04/21/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Total (As CaCO ₃ at pH 4.5)	261	10	250		104	80	120			

Comments:

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Date:
27-Apr-09

QC Summary Report

Work Order:
09042106

Method Blank

File ID:	Type	MBLK	Test Code:	SM3500-Fe B	Batch ID:	W0422FRA	Analysis Date:	04/22/2009 00:00		
Sample ID:	MBLK-W0422FRA	Units :	mg/L	Run ID:	WETLAB_090422C	Prep Date:	04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM3500-Fe B	Batch ID:	W0422FRA	Analysis Date:	04/22/2009 00:00		
Sample ID:	LCS-W0422FRA	Units :	mg/L	Run ID:	WETLAB_090422C	Prep Date:	04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.48	0.05	1.5		99	85	115			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM3500-Fe B	Batch ID:	W0422FRA	Analysis Date:	04/22/2009 00:00		
Sample ID:	09042107-15AMS	Units :	mg/L	Run ID:	WETLAB_090422C	Prep Date:	04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.58	0.05	1.5	0	105	70	130			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM3500-Fe B	Batch ID:	W0422FRA	Analysis Date:	04/22/2009 00:00		
Sample ID:	09042107-15AMSD	Units :	mg/L	Run ID:	WETLAB_090422C	Prep Date:	04/22/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.54	0.05	1.5	0	103	70	130	1.575	2.4(20)	

Comments:

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Date:
27-Apr-09

QC Summary Report

Work Order:
09042106

Method Blank

Method Blank		Type	Test Code: EPA Method 200.8							
File ID: 042209.B\070SMPL.D\			Batch ID: 21870				Analysis Date: 04/23/2009 18:35			
Sample ID:	MB-21870	Units : mg/L	Run ID: ICP/MS_090423C				Prep Date: 04/23/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn), Dissolved	ND	0.005								

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method 200.8							
File ID: 042209.B\70L.D\			Batch ID: 21870				Analysis Date: 04/24/2009 12:02			
Sample ID:	LCS-21870	Units : mg/L	Run ID: ICP/MS_090423C				Prep Date: 04/23/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn), Dissolved	0.0455	0.005	0.05		91	83	120			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method 200.8							
File ID: 042209.B\075SMPL.D\			Batch ID: 21870				Analysis Date: 04/23/2009 19:04			
Sample ID:	09042201-14AMS	Units : mg/L	Run ID: ICP/MS_090423C				Prep Date: 04/23/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn), Dissolved	1.6	0.005	0.05	1.549	108	70	130			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 200.8							
File ID: 042209.B\076SMPL.D\			Batch ID: 21870				Analysis Date: 04/23/2009 19:09			
Sample ID:	09042201-14AMSD	Units : mg/L	Run ID: ICP/MS_090423C				Prep Date: 04/23/2009			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn), Dissolved	1.52	0.005	0.05	1.549	-64	70	130	1.603	5.5(20)	M3

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.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:
28-Apr-09

QC Summary Report

Work Order:
09042106

Method Blank

Method Blank		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		MBLK	Batch ID: 21874			Analysis Date: 04/27/2009 13:56					
Sample ID:	MBLK-21874	Units : mg/L	Run ID: FID_6_090427A			Prep Date: 04/24/2009					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	ND	0.01									

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		LCS	Batch ID: 21874			Analysis Date: 04/27/2009 14:14					
Sample ID:	LCS-21874	Units : mg/L	Run ID: FID_6_090427A			Prep Date: 04/24/2009					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	0.408	0.01	0.452		90	70	130				

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		MS	Batch ID: 21874			Analysis Date: 04/27/2009 14:50					
Sample ID:	09042107-01AMS	Units : mg/L	Run ID: FID_6_090427A			Prep Date: 04/24/2009					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	4.85	0.01	1.81	3.109	96	70	130				

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		MSD	Batch ID: 21874			Analysis Date: 04/27/2009 15:08					
Sample ID:	09042107-01AMSD	Units : mg/L	Run ID: FID_6_090427A			Prep Date: 04/24/2009					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	4.14	0.01	1.81	3.109	57	70	130	4.846	15.8(20)	M2	

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.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.