



# 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 : 07/21/09

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 : <b>GMW-0-1</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/20/09	07/22/09
Lab ID : GMT09072140-02A	Surr: Nonane	79	(57-147) %REC	07/20/09	07/22/09
	TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	07/20/09	07/23/09
	Surr: Toluene-d8	101	(70-130) %REC	07/20/09	07/23/09
	Surr: 4-Bromofluorobenzene	96	(70-130) %REC	07/20/09	07/23/09
Client ID : <b>EB-1</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/20/09	07/22/09
Lab ID : GMT09072140-03A	Surr: Nonane	80	(57-147) %REC	07/20/09	07/22/09
	TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	07/20/09	07/23/09
	Surr: Toluene-d8	102	(70-130) %REC	07/20/09	07/23/09
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	07/20/09	07/23/09
Client ID : <b>WCW-3</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/20/09	07/22/09
Lab ID : GMT09072140-04A	Surr: Nonane	73	(57-147) %REC	07/20/09	07/22/09
	TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	07/20/09	07/23/09
	Surr: Toluene-d8	102	(70-130) %REC	07/20/09	07/23/09
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	07/20/09	07/23/09
Client ID : <b>WCW-13</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/20/09	07/23/09
Lab ID : GMT09072140-05A	Surr: Nonane	67	(57-147) %REC	07/20/09	07/23/09
	TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	85	(70-130) %REC	07/20/09	07/23/09
	Surr: Toluene-d8	103	(70-130) %REC	07/20/09	07/23/09
	Surr: 4-Bromofluorobenzene	95	(70-130) %REC	07/20/09	07/23/09
Client ID : <b>EXP-4</b>	TPH-E (Fuel Product)	0.12 *	0.10 mg/L	07/20/09	07/22/09
Lab ID : GMT09072140-06A	Surr: Nonane	79	(57-147) %REC	07/20/09	07/22/09
	TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	07/20/09	07/23/09
	Surr: Toluene-d8	104	(70-130) %REC	07/20/09	07/23/09
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	07/20/09	07/23/09
Client ID : <b>EXP-3</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/20/09	07/22/09
Lab ID : GMT09072140-07A	Surr: Nonane	80	(57-147) %REC	07/20/09	07/22/09
	TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC	07/20/09	07/23/09
	Surr: Toluene-d8	105	(70-130) %REC	07/20/09	07/23/09
	Surr: 4-Bromofluorobenzene	98	(70-130) %REC	07/20/09	07/23/09



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Client ID :	<b>EXP-2</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/20/09	07/22/09
Lab ID :	GMT09072140-08A	Surr: Nonane	78	(57-147) %REC	07/20/09	07/22/09
		TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
		Surr: 1,2-Dichloroethane-d4	86	(70-130) %REC	07/20/09	07/23/09
		Surr: Toluene-d8	103	(70-130) %REC	07/20/09	07/23/09
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	07/20/09	07/23/09
Client ID :	<b>EXP-1</b>	TPH-E (Fuel Product)	0.12 *	0.10 mg/L	07/20/09	07/22/09
Lab ID :	GMT09072140-09A	Surr: Nonane	78	(57-147) %REC	07/20/09	07/22/09
		TPH-P (GRO)	ND	0.050 mg/L	07/20/09	07/23/09
		Surr: 1,2-Dichloroethane-d4	86	(70-130) %REC	07/20/09	07/23/09
		Surr: Toluene-d8	103	(70-130) %REC	07/20/09	07/23/09
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	07/20/09	07/23/09

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

Gasoline Range Organics (GRO) C4-C13

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

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7/29/09

**Report Date**



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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: GMT09072140-01A  
Client I.D. Number: TB-1

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	85	(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	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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Phone: (949) 642-0245  
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Alpha Analytical Number: GMT09072140-02A  
Client I.D. Number: GMW-0-1

Sampled: 07/20/09  
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Analyzed: 07/23/09

### 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	87	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Alpha Analytical Number: GMT09072140-03A  
Client I.D. Number: EB-1

Sampled: 07/20/09  
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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	87	(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
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32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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*[Signature]*

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Alpha Analytical Number: GMT09072140-04A  
Client I.D. Number: WCW-3

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	1.7	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	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			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

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*PS*  
7/29/09

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: GMT09072140-05A  
Client I.D. Number: WCW-13

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	85	(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	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

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*JPS*

7/29/09

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

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

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

Alpha Analytical Number: GMT09072140-06A  
Client I.D. Number: EXP-4

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	84	(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	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	1.2	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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

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7/29/09

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

Alpha Analytical Number: GMT09072140-07A  
Client I.D. Number: EXP-3

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	83	(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	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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

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7/29/09

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

Alpha Analytical Number: GMT09072140-08A  
Client I.D. Number: EXP-2

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	86	(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	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / 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.

7/29/09

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: GMT09072140-09A  
Client I.D. Number: EXP-1

Sampled: 07/20/09  
Received: 07/21/09  
Analyzed: 07/23/09

### 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	86	(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	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / 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.

*YPS*

7/29/09

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: GMT09072140

Project: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09072140-01A	TB-1	Aqueous	2
09072140-02A	GMW-0-1	Aqueous	2
09072140-03A	EB-1	Aqueous	2
09072140-04A	WCW-3	Aqueous	2
09072140-05A	WCW-13	Aqueous	2
09072140-06A	EXP-4	Aqueous	2
09072140-07A	EXP-3	Aqueous	2
09072140-08A	EXP-2	Aqueous	2
09072140-09A	EXP-1	Aqueous	2

7/29/09

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

Date:  
29-Jul-09

## QC Summary Report

Work Order:  
09072140

### Method Blank

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

File ID:			Batch ID: <b>22384</b>	Analysis Date: <b>07/22/2009 16:07</b>						
Sample ID: <b>MBLK-22384</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	80.6		100		81	57	147			

### Laboratory Control Spike

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

File ID:			Batch ID: <b>22384</b>	Analysis Date: <b>07/22/2009 15:42</b>						
Sample ID: <b>LCS-22384</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.51	0.5	2.5		100	67	130			
Surr: Nonane	76.9		100		77	57	147			

### Sample Matrix Spike

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

File ID:			Batch ID: <b>22384</b>	Analysis Date: <b>07/23/2009 01:29</b>						
Sample ID: <b>09072242-10AMS</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.37	0.5	2.5	0	95	49	150			
Surr: Nonane	72.4		100		72	57	147			

### Sample Matrix Spike Duplicate

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

File ID:			Batch ID: <b>22384</b>	Analysis Date: <b>07/23/2009 01:55</b>						
Sample ID: <b>09072242-10AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.6	0.5	2.5	0	104	49	150	2.371	9.1(38)	
Surr: Nonane	78.4		100		78	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:  
29-Jul-09

## QC Summary Report

Work Order:  
09072140

### Method Blank

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

File ID: C:\HPCHEM\MS07\DATA\090723\09072306.D

Batch ID: **MS07W0723B**

Analysis Date: **07/23/2009 17:02**

Sample ID: **MBLK MS07W0723B**

Units : **mg/L**

Run ID: **MSD\_07\_090723A**

Prep Date: **07/23/2009**

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	0.00841		0.01		84	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00968		0.01		97	70	130			

### Laboratory Control Spike

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

File ID: C:\HPCHEM\MS07\DATA\090723\09072303.D

Batch ID: **MS07W0723B**

Analysis Date: **07/23/2009 15:55**

Sample ID: **GLCS MS07W0723B**

Units : **mg/L**

Run ID: **MSD\_07\_090723A**

Prep Date: **07/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.387	0.05	0.4		97	70	130			
Surr: 1,2-Dichloroethane-d4	0.00853		0.01		85	70	130			
Surr: Toluene-d8	0.0099		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00964		0.01		96	70	130			

### Sample Matrix Spike

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

File ID: C:\HPCHEM\MS07\DATA\090723\09072310.D

Batch ID: **MS07W0723B**

Analysis Date: **07/23/2009 18:33**

Sample ID: **09072140-02AGS**

Units : **mg/L**

Run ID: **MSD\_07\_090723A**

Prep Date: **07/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.77	0.25	2	0	88	58	135			
Surr: 1,2-Dichloroethane-d4	0.0421		0.05		84	70	130			
Surr: Toluene-d8	0.0494		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.048		0.05		96	70	130			

### Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS07\DATA\090723\09072311.D

Batch ID: **MS07W0723B**

Analysis Date: **07/23/2009 18:55**

Sample ID: **09072140-02AGSD**

Units : **mg/L**

Run ID: **MSD\_07\_090723A**

Prep Date: **07/23/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.64	0.25	2	0	82	58	135	1.768	7.4(20)	
Surr: 1,2-Dichloroethane-d4	0.0421		0.05		84	70	130			
Surr: Toluene-d8	0.0499		0.05		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.049		0.05		98	70	130			

### Comments:

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# Alpha Analytical, Inc.

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

Date:  
29-Jul-09

## QC Summary Report

Work Order:  
09072140

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	8.41		10		84	70		130	
Surr: Toluene-d8	10.3		10		103	70		130	
Surr: 4-Bromofluorobenzene	9.68		10		97	70		130	

### Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS07\DATA\090723\09072304.D

Batch ID: MS07W0723A

Analysis Date: 07/23/2009 16:17

Sample ID: LCS MS07W0723A

Units: µg/L

Run ID: MSD\_07\_090723A

Prep Date: 07/23/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.99	1	10		90	80	120			
Methyl tert-butyl ether (MTBE)	11.3	0.5	10		113	62	136			
Benzene	10.5	0.5	10		105	70	130			
Trichloroethene	10.9	1	10		109	70	130			
Toluene	10.8	0.5	10		108	80	120			
Chlorobenzene	10.1	1	10		101	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	11.9	0.5	10		119	70	130			
o-Xylene	10.3	0.5	10		103	70	130			
Surr: 1,2-Dichloroethane-d4	8.62		10		86	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.85		10		99	70	130			

### Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS07\DATA\090723\09072308.D

Batch ID: MS07W0723A

Analysis Date: 07/23/2009 17:47

Sample ID: 09072140-02AMS

Units: µg/L

Run ID: MSD\_07\_090723A

Prep Date: 07/23/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.6	2.5	50	0	101	60	130			
Methyl tert-butyl ether (MTBE)	49.3	1.3	50	0	99	56	141			
Benzene	48.1	1.3	50	0	96	67	130			
Trichloroethene	49.4	2.5	50	0	99	69	130			
Toluene	49.5	1.3	50	0	99	66	130			
Chlorobenzene	47.1	2.5	50	0	94	70	130			
Ethylbenzene	46.8	1.3	50	0	94	68	130			
m,p-Xylene	53.9	1.3	50	0	108	64	130			
o-Xylene	47.3	1.3	50	0	95	70	130			
Surr: 1,2-Dichloroethane-d4	44.3		50		89	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			

### Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS07\DATA\090723\09072309.D

Batch ID: MS07W0723A

Analysis Date: 07/23/2009 18:11

Sample ID: 09072140-02AMSD

Units: µg/L

Run ID: MSD\_07\_090723A

Prep Date: 07/23/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	46.6	2.5	50	0	93	60	130	50.55	8.1(20)	
Methyl tert-butyl ether (MTBE)	51.7	1.3	50	0	103	56	141	49.32	4.7(20)	
Benzene	47	1.3	50	0	94	67	130	48.06	2.3(20)	
Trichloroethene	46.7	2.5	50	0	93	69	130	49.37	5.7(20)	
Toluene	48	1.3	50	0	96	66	130	49.45	2.9(20)	
Chlorobenzene	47.4	2.5	50	0	95	70	130	47.13	0.6(20)	
Ethylbenzene	46	1.3	50	0	92	68	130	46.79	1.8(20)	
m,p-Xylene	52.8	1.3	50	0	106	64	130	53.9	2.0(20)	
o-Xylene	46.7	1.3	50	0	93	70	130	47.27	1.2(20)	
Surr: 1,2-Dichloroethane-d4	42.6		50		85	70	130			
Surr: Toluene-d8	49.7		50		99	70	130			
Surr: 4-Bromofluorobenzene	48.3		50		97	70	130			





# *Alpha Analytical, Inc.*

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

**Date:**  
29-Jul-09

## QC Summary Report

**Work Order:**  
09072140

**Comments:**

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

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : GMTC09072140**  
**Report Due By : 5:00 PM On : 30-Jul-09**

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

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

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

Sampled by : T. Rhymes

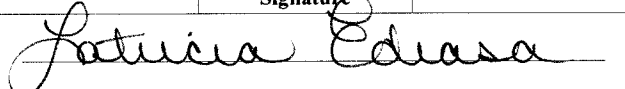
PO :  
 Client's COC # : none Job : KMEP Norwalk

Cooler Temp	Samples Received	Date Printed
4 °C	21-Jul-09	21-Jul-09

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPH/E_W	TPH/P_W	VOC_W						
GMT09072140-01A	TB-1	AQ	07/20/09 07:00	2	0	7			TPHE(0.10)+Vinyl acetate						Reno Trip Blank 05/27/09
GMT09072140-02A	GMW-0-1	AQ	07/20/09 13:55	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
GMT09072140-03A	EB-1	AQ	07/20/09 14:15	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
GMT09072140-04A	WCW-3	AQ	07/20/09 13:10	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
GMT09072140-05A	WCW-13	AQ	07/20/09 12:30	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
GMT09072140-06A	EXP-4	AQ	07/20/09 11:13	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
GMT09072140-07A	EXP-3	AQ	07/20/09 10:05	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						
GMT09072140-08A	EXP-2	AQ	07/20/09 09:10	6	0	7	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate	TPHE(0.10)+Vinyl acetate						

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

Signature	Print Name	Company	Date/Time
	Latricia Edrosa	Alpha Analytical, Inc.	7/21/09 10:10

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

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : GMTC09072140**  
**Report Due By : 5:00 PM On : 30-Jul-09**

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

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

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

Sampled by : T. Rhymes

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

Cooler Temp	Samples Received	Date Printed
4 °C	21-Jul-09	21-Jul-09

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks				
				TPHE_W	TPH/P_W	VOC_W								
GMT09072140-09A	EXP-1	AQ	07/20/09 08:05	5	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate					One voa rec'd broken.

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

Signature	Print Name	Company	Date/Time
<i>Jatricia Edrosa</i>	Jatricia Edrosa	Alpha Analytical, Inc.	7/21/09 10:10

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

# BLAINE

TECH SERVICES, INC.

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

## CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC | of |

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

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

CHAIN OF

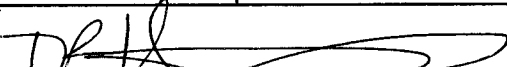
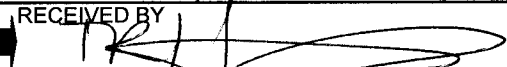
CLIENT **Kinder Morgan**


SITE **Norwalk**

**15306 Norwalk Blvd, Norwalk**

SAMPLE I.D.	DATE	TIME	MATRIX AG= Water	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (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)	Nitrate and Nitrite (EPA 300.0)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type												
TB-1	7-20-09	0700	AQ	2	HCl	VOA		X										GMT09072140-01
GMM-0-1		1355		6			X	X										-02
EB-1		1415					X	X										-03
WCW-3		1310					X	X										-04
WCW-13		1230					X	X										-05
EXP-4		1113					X	X										-06
EXP-3		1005					X	X										-07
EXP-2		0910					X	X										-08
EXP-1		0805					X	X									One voa ic'd broken.	-09

SAMPLING COMPLETED **7-20-09 1430** | DATE | TIME | SAMPLING PERFORMED BY **T. RHYMES** | RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY  | TIME 1515 | RECEIVED BY  | DATE 7-20-09 | TIME 1515

RELEASED BY | TIME | RECEIVED BY  | DATE 7/21/09 | TIME 10:02

RELEASED BY | TIME | RECEIVED BY | DATE | TIME

SHIPPED VIA | TIME SENT | COOLER #



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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

Attn: Shiow-Whei Chou  
Phone: (949) 642-0245  
Fax: (949) 642-4474  
Date Received : 07/22/09

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 : <b>PZ-10</b>	TPH-E (Fuel Product)	1.7	**	0.10 mg/L	07/21/09	07/22/09
Lab ID : GMT09072242-02A	Surr: Nonane	76		(57-147) %REC	07/21/09	07/22/09
	TPH-P (GRO)	ND	O	0.20 mg/L	07/21/09	07/23/09
	Surr: 1,2-Dichloroethane-d4	85		(70-130) %REC	07/21/09	07/23/09
	Surr: Toluene-d8	103		(70-130) %REC	07/21/09	07/23/09
	Surr: 4-Bromofluorobenzene	97		(70-130) %REC	07/21/09	07/23/09
Client ID : <b>GMW-39</b>	TPH-E (Fuel Product)	ND		0.10 mg/L	07/21/09	07/22/09
Lab ID : GMT09072242-03A	Surr: Nonane	76		(57-147) %REC	07/21/09	07/22/09
	TPH-P (GRO)	ND	V	0.10 mg/L	07/21/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	83		(70-130) %REC	07/21/09	07/29/09
	Surr: Toluene-d8	103		(70-130) %REC	07/21/09	07/29/09
	Surr: 4-Bromofluorobenzene	97		(70-130) %REC	07/21/09	07/29/09
Client ID : <b>EB-2</b>	TPH-E (Fuel Product)	ND		0.10 mg/L	07/21/09	07/22/09
Lab ID : GMT09072242-04A	Surr: Nonane	73		(57-147) %REC	07/21/09	07/22/09
	TPH-P (GRO)	ND		0.050 mg/L	07/21/09	07/24/09
	Surr: 1,2-Dichloroethane-d4	86		(70-130) %REC	07/21/09	07/24/09
	Surr: Toluene-d8	104		(70-130) %REC	07/21/09	07/24/09
	Surr: 4-Bromofluorobenzene	98		(70-130) %REC	07/21/09	07/24/09
Client ID : <b>DUP-1</b>	TPH-E (Fuel Product)	ND		0.10 mg/L	07/21/09	07/22/09
Lab ID : GMT09072242-05A	Surr: Nonane	82		(57-147) %REC	07/21/09	07/22/09
	TPH-P (GRO)	ND		0.050 mg/L	07/21/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	84		(70-130) %REC	07/21/09	07/29/09
	Surr: Toluene-d8	103		(70-130) %REC	07/21/09	07/29/09
	Surr: 4-Bromofluorobenzene	97		(70-130) %REC	07/21/09	07/29/09
Client ID : <b>WCW-7</b>	TPH-E (Fuel Product)	0.12	*	0.10 mg/L	07/21/09	07/22/09
Lab ID : GMT09072242-06A	Surr: Nonane	76		(57-147) %REC	07/21/09	07/22/09
	TPH-P (GRO)	ND		0.050 mg/L	07/21/09	07/24/09
	Surr: 1,2-Dichloroethane-d4	82		(70-130) %REC	07/21/09	07/24/09
	Surr: Toluene-d8	101		(70-130) %REC	07/21/09	07/24/09
	Surr: 4-Bromofluorobenzene	93		(70-130) %REC	07/21/09	07/24/09
Client ID : <b>GMW-38</b>	TPH-E (Fuel Product)	ND		0.10 mg/L	07/21/09	07/22/09
Lab ID : GMT09072242-07A	Surr: Nonane	74		(57-147) %REC	07/21/09	07/22/09
	TPH-P (GRO)	ND		0.050 mg/L	07/21/09	07/24/09
	Surr: 1,2-Dichloroethane-d4	87		(70-130) %REC	07/21/09	07/24/09
	Surr: Toluene-d8	103		(70-130) %REC	07/21/09	07/24/09
	Surr: 4-Bromofluorobenzene	95		(70-130) %REC	07/21/09	07/24/09



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Client ID :	<b>GMW-0-3</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/21/09	07/23/09
Lab ID :	GMT09072242-08A	Surr: Nonane	72	(57-147) %REC	07/21/09	07/23/09
		TPH-P (GRO)	ND	0.050 mg/L	07/21/09	07/24/09
		Surr: 1,2-Dichloroethane-d4	85	(70-130) %REC	07/21/09	07/24/09
		Surr: Toluene-d8	101	(70-130) %REC	07/21/09	07/24/09
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	07/21/09	07/24/09
Client ID :	<b>GMW-0-2</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/21/09	07/23/09
Lab ID :	GMT09072242-09A	Surr: Nonane	81	(57-147) %REC	07/21/09	07/23/09
		TPH-P (GRO)	ND	0.050 mg/L	07/21/09	07/24/09
		Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC	07/21/09	07/24/09
		Surr: Toluene-d8	105	(70-130) %REC	07/21/09	07/24/09
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	07/21/09	07/24/09
Client ID :	<b>EXP-5</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/21/09	07/23/09
Lab ID :	GMT09072242-10A	Surr: Nonane	75	(57-147) %REC	07/21/09	07/23/09
		TPH-P (GRO)	ND	0.050 mg/L	07/21/09	07/24/09
		Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	07/21/09	07/24/09
		Surr: Toluene-d8	102	(70-130) %REC	07/21/09	07/24/09
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	07/21/09	07/24/09

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

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

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

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

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / 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.

7/30/09

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: GMT09072242-01A  
Client I.D. Number: TB-2

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/23/09

### 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	86	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

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.

*PS*

7/30/09

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: GMT09072242-02A  
Client I.D. Number: PZ-10

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Styrene	ND	2.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	1.0 µg/L
7 Acetone	ND	40 µg/L	51 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,2,3-Trichloropropane	ND	8.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	55	20 µg/L	53 Isopropylbenzene	7.6	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	6.0	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)	9.6	1.0 µg/L	58 1,3,5-Trimethylbenzene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 tert-Butylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 1,2,4-Trimethylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	3.1	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	85	(70-130) %REC
28 Benzene	1.4	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	97	(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.

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

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7/30/09

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: GMT09072242-03A  
Client I.D. Number: GMW-39

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/29/09

### 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)	2,500	50 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)	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	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)	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	6.0 µg/L
24 1,2-Dichloroethane	ND	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	83	(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	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	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			

\*This analyte was analyzed separately on 7/24/09 in order to achieve lower reporting limits for the other analytes.

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

ND = Not Detected

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

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7/30/09

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: GMT09072242-04A  
Client I.D. Number: EB-2

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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	86	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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

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7/30/09

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: GMT09072242-05A  
Client I.D. Number: DUP-1

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/29/09

### 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)	4,400	100 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	84	(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	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			

\*This analyte was analyzed separately on 7/24/09 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

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

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7/30/09

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: GMT09072242-06A  
Client I.D. Number: WCW-7

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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)	1.9	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	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)	5.6	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	31	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	82	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

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*[Signature]*

7/30/09

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: GMT09072242-07A  
Client I.D. Number: GMW-38

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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)	27	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)	0.55	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	87	(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	95	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

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*[Signature]*

7/30/09

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: GMT09072242-08A  
Client I.D. Number: GMW-0-3

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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	85	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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

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7/30/09

Report Date



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

## ANALYTICAL REPORT

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: GMT09072242-09A  
Client I.D. Number: GMW-0-2

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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	83	(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	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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7/30/09

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: GMT09072242-10A  
Client I.D. Number: EXP-5

Sampled: 07/21/09  
Received: 07/22/09  
Analyzed: 07/24/09

### 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	88	(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	96	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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7/30/09

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: GMT09072242

Project: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09072242-01A	TB-2	Aqueous	2
09072242-02A	PZ-10	Aqueous	2
09072242-03A	GMW-39	Aqueous	2
09072242-04A	EB-2	Aqueous	2
09072242-05A	DUP-1	Aqueous	2
09072242-06A	WCW-7	Aqueous	2
09072242-07A	GMW-38	Aqueous	2
09072242-08A	GMW-0-3	Aqueous	2
09072242-09A	GMW-0-2	Aqueous	2
09072242-10A	EXP-5	Aqueous	2

7/30/09

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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

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

Date:

30-Jul-09

## QC Summary Report

Work Order:

09072242

### Method Blank

File ID:	Type <b>MBLK</b>	Test Code: <b>EPA Method SW8015 / E</b>	Batch ID: <b>22384</b>	Analysis Date: <b>07/22/2009 16:07</b>						
Sample ID: <b>MBLK-22384</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	80.6		100		81	57	147			

### Laboratory Control Spike

File ID:	Type <b>LCS</b>	Test Code: <b>EPA Method SW8015 / E</b>	Batch ID: <b>22384</b>	Analysis Date: <b>07/22/2009 15:42</b>						
Sample ID: <b>LCS-22384</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.51	0.5	2.5		100	67	130			
Surr: Nonane	76.9		100		77	57	147			

### Sample Matrix Spike

File ID:	Type <b>MS</b>	Test Code: <b>EPA Method SW8015 / E</b>	Batch ID: <b>22384</b>	Analysis Date: <b>07/23/2009 01:29</b>						
Sample ID: <b>09072242-10AMS</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.37	0.5	2.5	0	95	49	150			
Surr: Nonane	72.4		100		72	57	147			

### Sample Matrix Spike Duplicate

File ID:	Type <b>MSD</b>	Test Code: <b>EPA Method SW8015 / E</b>	Batch ID: <b>22384</b>	Analysis Date: <b>07/23/2009 01:55</b>						
Sample ID: <b>09072242-10AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>FID_2_090722A</b>	Prep Date: <b>07/22/2009</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.6	0.5	2.5	0	104	49	150	2.371	9.1(38)	
Surr: Nonane	78.4		100		78	57	147			

### Comments:

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



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Date:

30-Jul-09

## QC Summary Report

Work Order:

09072242

### Method Blank

File ID: C:\HPCHEM\MMS07\DATA\090723\09072306.D	Type <b>MBLK</b>	Test Code: <b>EPA Method SW8015B</b>								
Sample ID: <b>MBLK MS07W0723B</b>	Units : <b>mg/L</b>	Batch ID: <b>MS07W0723B</b>								
Run ID: <b>MSD_07_090723A</b>	Analysis Date: <b>07/23/2009 17:02</b>	Prep Date: <b>07/23/2009</b>								
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	0.00841		0.01		84	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00968		0.01		97	70	130			

### Laboratory Control Spike

File ID: C:\HPCHEM\MMS07\DATA\090723\09072303.D	Type <b>LCS</b>	Test Code: <b>EPA Method SW8015B</b>								
Sample ID: <b>GLCS MS07W0723B</b>	Units : <b>mg/L</b>	Batch ID: <b>MS07W0723B</b>								
Run ID: <b>MSD_07_090723A</b>	Analysis Date: <b>07/23/2009 15:55</b>	Prep Date: <b>07/23/2009</b>								
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.387	0.05	0.4		97	70	130			
Surr: 1,2-Dichloroethane-d4	0.00853		0.01		85	70	130			
Surr: Toluene-d8	0.0099		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00964		0.01		96	70	130			

### Sample Matrix Spike

File ID: C:\HPCHEM\MMS07\DATA\090723\09072310.D	Type <b>MS</b>	Test Code: <b>EPA Method SW8015B</b>								
Sample ID: <b>09072140-02AGS</b>	Units : <b>mg/L</b>	Batch ID: <b>MS07W0723B</b>								
Run ID: <b>MSD_07_090723A</b>	Analysis Date: <b>07/23/2009 18:33</b>	Prep Date: <b>07/23/2009</b>								
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.77	0.25	2	0	88	58	135			
Surr: 1,2-Dichloroethane-d4	0.0421		0.05		84	70	130			
Surr: Toluene-d8	0.0494		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.048		0.05		96	70	130			

### Sample Matrix Spike Duplicate

File ID: C:\HPCHEM\MMS07\DATA\090723\09072311.D	Type <b>MSD</b>	Test Code: <b>EPA Method SW8015B</b>								
Sample ID: <b>09072140-02AGSD</b>	Units : <b>mg/L</b>	Batch ID: <b>MS07W0723B</b>								
Run ID: <b>MSD_07_090723A</b>	Analysis Date: <b>07/23/2009 18:55</b>	Prep Date: <b>07/23/2009</b>								
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.64	0.25	2	0	82	58	135	1.768	7.4(20)	
Surr: 1,2-Dichloroethane-d4	0.0421		0.05		84	70	130			
Surr: Toluene-d8	0.0499		0.05		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.049		0.05		98	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:

## QC Summary Report

Work Order:

30-Jul-09

09072242

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	8.41	10	84	70	130				
Surr: Toluene-d8	10.3	10	103	70	130				
Surr: 4-Bromofluorobenzene	9.68	10	97	70	130				

### Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\090723\09072304.D

Batch ID: MS07W0723A

Analysis Date: 07/23/2009 16:17

Sample ID: LCS MS07W0723A

Units: µg/L

Run ID: MSD\_07\_090723A

Prep Date: 07/23/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.99	1	10		90	80	120			
Methyl tert-butyl ether (MTBE)	11.3	0.5	10		113	62	136			
Benzene	10.5	0.5	10		105	70	130			
Trichloroethene	10.9	1	10		109	70	130			
Toluene	10.8	0.5	10		108	80	120			
Chlorobenzene	10.1	1	10		101	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	11.9	0.5	10		119	70	130			
o-Xylene	10.3	0.5	10		103	70	130			
Surr: 1,2-Dichloroethane-d4	8.62		10		86	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.85		10		99	70	130			

### Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\090723\09072308.D

Batch ID: MS07W0723A

Analysis Date: 07/23/2009 17:47

Sample ID: 09072140-02AMS

Units: µg/L

Run ID: MSD\_07\_090723A

Prep Date: 07/23/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.6	2.5	50		101	60	130			
Methyl tert-butyl ether (MTBE)	49.3	1.3	50		99	56	141			
Benzene	48.1	1.3	50		96	67	130			
Trichloroethene	49.4	2.5	50		99	69	130			
Toluene	49.5	1.3	50		99	66	130			
Chlorobenzene	47.1	2.5	50		94	70	130			
Ethylbenzene	46.8	1.3	50		94	68	130			
m,p-Xylene	53.9	1.3	50		108	64	130			
o-Xylene	47.3	1.3	50		95	70	130			
Surr: 1,2-Dichloroethane-d4	44.3		50		89	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			

### Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\090723\09072309.D

Batch ID: MS07W0723A

Analysis Date: 07/23/2009 18:11

Sample ID: 09072140-02AMSD

Units: µg/L

Run ID: MSD\_07\_090723A

Prep Date: 07/23/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	46.6	2.5	50		93	60	130	50.55	8.1(20)	
Methyl tert-butyl ether (MTBE)	51.7	1.3	50		103	56	141	49.32	4.7(20)	
Benzene	47	1.3	50		94	67	130	48.06	2.3(20)	
Trichloroethene	46.7	2.5	50		93	69	130	49.37	5.7(20)	
Toluene	48	1.3	50		96	66	130	49.45	2.9(20)	
Chlorobenzene	47.4	2.5	50		95	70	130	47.13	0.6(20)	
Ethylbenzene	46	1.3	50		92	68	130	46.79	1.8(20)	
m,p-Xylene	52.8	1.3	50		106	64	130	53.9	2.0(20)	
o-Xylene	46.7	1.3	50		93	70	130	47.27	1.2(20)	
Surr: 1,2-Dichloroethane-d4	42.6		50		85	70	130			
Surr: Toluene-d8	49.7		50		99	70	130			
Surr: 4-Bromofluorobenzene	48.3		50		97	70	130			



# *Alpha Analytical, Inc.*

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

**Date:**

30-Jul-09

## QC Summary Report

**Work Order:**

09072242

**Comments:**

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

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : GMTC09072242**  
**Report Due By : 5:00 PM On : 31-Jul-09**

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

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

**Report J Values down to MDL : Yes**

**EDD Required : Yes**

**Sampled by : T. Rhymes**

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

Cooler Temp	Samples Received	Date Printed
4 °C	22-Jul-09	22-Jul-09

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W						
GMT09072242-01A	TB-2	AQ	07/21/09 07:00	2	0	7			TPHE(0.10) +Vinyl acetate						2) Reno Trip Blanks 5/27/09
GMT09072242-02A	PZ-10	AQ	07/21/09 12:35	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
GMT09072242-03A	GMW-39	AQ	07/21/09 13:25	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
GMT09072242-04A	EB-2	AQ	07/21/09 13:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
GMT09072242-05A	DUP-1	AQ	07/21/09 13:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
GMT09072242-06A	WCW-7	AQ	07/21/09 11:15	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
GMT09072242-07A	GMW-38	AQ	07/21/09 10:20	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
GMT09072242-08A	GMW-0-3	AQ	07/21/09 09:30	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						

**Comments:** No Security Seals. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Signature	Print Name	Company	Date/Time
<i>Latricia Edusa</i>	Latricia Edusa	Alpha Analytical, Inc.	7/22/09 12:34

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

# CHAIN-OF-CUSTODY RECORD

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

# CA

**WorkOrder : GMTC09072242**  
**Report Due By : 5:00 PM On : 31-Jul-09**

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

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

**Report J Values down to MDL : Yes**

EDD Required : Yes

Sampled by : T. Rhymes

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

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
4 °C	22-Jul-09	22-Jul-09

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks
				TPHE_W	TPH/P_W	VOC_W				
GMT09072242-09A	GMW-0-2	AQ 07/21/09 08:50	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate				
GMT09072242-10A	EXP-5	AQ 07/21/09 08:05	6 0 7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate				

**Comments:** No Security Seals. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Signature	Print Name	Company	Date/Time
<i>Leticia Edrosa</i>	Leticia Edrosa	Alpha Analytical, Inc.	7/22/09 12:34

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



# BLAINE

TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 1

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

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

CHAIN OF

CLIENT **Kinder Morgan**

SITE **Norwalk**

**15306 Norwalk Blvd, Norwalk**

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (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)	Nitrate and Nitrite (EPA 300.0)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation Type												
TB-2	7.21.09	0700	AQ	2	HCL VOA		X										GMT09072242-01
P2-10		1235		6		X	X										-02
GMW-39		1325				X	X										-03
EB-2		1345				X	X										-04
EXP-1						X	X										-05
NCW-7		1115				X	X										-06
GMW-38		1020				X	X										-07
GMW-0-3		0930				X	X										-08
GMW-0-2		0950				X	X										-09
EXP-5		0805				X	X										-10

SAMPLING COMPLETED DATE 7.21.09 TIME 1430 SAMPLING PERFORMED BY T. RHYMO S RESULTS NEEDED NO LATER THAN Standard

RELEASED BY	TIME 1500	RECEIVED BY	DATE 7.21.09	TIME 1500
RELEASED BY	TIME	RECEIVED BY	DATE 7/22/09	TIME 12:34
RELEASED BY	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA TIME SENT COOLER #



# Alpha Analytical, Inc.

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

## ANALYTICAL REPORT

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 : 07/23/09

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 : <b>PZ-5</b>	TPH-E (Fuel Product)	1.8 *	0.10 mg/L	07/22/09	07/24/09
Lab ID : GMT09072342-02A	Surr: Nonane	99	(57-147) %REC	07/22/09	07/24/09
	TPH-P (GRO)	3.8	0.50 mg/L	07/22/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	07/22/09	07/29/09
	Surr: Toluene-d8	102	(70-130) %REC	07/22/09	07/29/09
	Surr: 4-Bromofluorobenzene	96	(70-130) %REC	07/22/09	07/29/09
Client ID : <b>DUP-2</b>	TPH-E (Fuel Product)	1.9 *	0.10 mg/L	07/22/09	07/24/09
Lab ID : GMT09072342-03A	Surr: Nonane	101	(57-147) %REC	07/22/09	07/24/09
	TPH-P (GRO)	3.5	0.50 mg/L	07/22/09	07/31/09
	Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC	07/22/09	07/31/09
	Surr: Toluene-d8	102	(70-130) %REC	07/22/09	07/31/09
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	07/22/09	07/31/09
Client ID : <b>MW-SF-1</b>	TPH-E (Fuel Product)	34 *	0.50 mg/L	07/22/09	07/27/09
Lab ID : GMT09072342-04A	Surr: Nonane	0 S50	(57-147) %REC	07/22/09	07/27/09
	TPH-P (GRO)	12	5.0 mg/L	07/22/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	07/22/09	07/29/09
	Surr: Toluene-d8	102	(70-130) %REC	07/22/09	07/29/09
	Surr: 4-Bromofluorobenzene	94	(70-130) %REC	07/22/09	07/29/09
Client ID : <b>GMW-0-14</b>	TPH-E (Fuel Product)	12 *	0.50 mg/L	07/22/09	07/27/09
Lab ID : GMT09072342-05A	Surr: Nonane	0 S50	(57-147) %REC	07/22/09	07/27/09
	TPH-P (GRO)	32	5.0 mg/L	07/22/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	81	(70-130) %REC	07/22/09	07/29/09
	Surr: Toluene-d8	103	(70-130) %REC	07/22/09	07/29/09
	Surr: 4-Bromofluorobenzene	94	(70-130) %REC	07/22/09	07/29/09
Client ID : <b>DUP-3</b>	TPH-E (Fuel Product)	15 *	0.50 mg/L	07/22/09	07/27/09
Lab ID : GMT09072342-06A	Surr: Nonane	0 S50	(57-147) %REC	07/22/09	07/27/09
	TPH-P (GRO)	31	5.0 mg/L	07/22/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC	07/22/09	07/29/09
	Surr: Toluene-d8	102	(70-130) %REC	07/22/09	07/29/09
	Surr: 4-Bromofluorobenzene	94	(70-130) %REC	07/22/09	07/29/09
Client ID : <b>GMW-36</b>	TPH-E (Fuel Product)	15 *	0.50 mg/L	07/22/09	07/27/09
Lab ID : GMT09072342-07A	Surr: Nonane	0 S50	(57-147) %REC	07/22/09	07/27/09
	TPH-P (GRO)	24	5.0 mg/L	07/22/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC	07/22/09	07/29/09
	Surr: Toluene-d8	103	(70-130) %REC	07/22/09	07/29/09
	Surr: 4-Bromofluorobenzene	93	(70-130) %REC	07/22/09	07/29/09
Client ID : <b>EB-3</b>	TPH-E (Fuel Product)	ND	0.10 mg/L	07/22/09	07/24/09
Lab ID : GMT09072342-08A	Surr: Nonane	105	(57-147) %REC	07/22/09	07/24/09
	TPH-P (GRO)	ND	0.050 mg/L	07/22/09	07/29/09
	Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	07/22/09	07/29/09
	Surr: Toluene-d8	103	(70-130) %REC	07/22/09	07/29/09
	Surr: 4-Bromofluorobenzene	98	(70-130) %REC	07/22/09	07/29/09



# Alpha Analytical, Inc.

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

---

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

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Roger 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.

**7/31/09**

**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: GMT09072342-01A  
Client I.D. Number: TB-3

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

### 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	84	(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			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

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

*[Signature]*

7/31/09

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#: KMPE NORWALK

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

Alpha Analytical Number: GMT09072342-02A  
Client I.D. Number: PZ-5

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

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

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	98	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	37	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Styrene	ND	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	40	2.5 µg/L
7 Acetone	ND	100 µg/L	51 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,2,3-Trichloropropane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	54,000	1,000 µg/L	53 Isopropylbenzene	ND	5.0 µg/L
10 Dichloromethane	ND	20 µg/L	54 Bromobenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	6.5	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 4-Chlorotoluene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 2-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	800	2.5 µg/L	58 1,3,5-Trimethylbenzene	6.4	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 tert-Butylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 1,2,4-Trimethylbenzene	34	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 sec-Butylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 1,3-Dichlorobenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,4-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 4-Isopropyltoluene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 1,2-Dichlorobenzene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 n-Butylbenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2,4-Trichlorobenzene	ND	20 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 Naphthalene	39	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 1,2,3-Trichlorobenzene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC
28 Benzene	2,000	50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L			
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	20	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

\*This analyte was analyzed separately on 7/29/09 in order to achieve lower reporting limits for the other analytes.

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

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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7/31/09

Report Date

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# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

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

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

Alpha Analytical Number: GMT09072342-03A  
Client I.D. Number: DUP-2

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/31/09

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

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	92	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	35	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Styrene	ND	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	37	2.5 µg/L
7 Acetone	ND	100 µg/L	51 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,2,3-Trichloropropane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	52,000	1,000 µg/L	53 Isopropylbenzene	ND	5.0 µg/L
10 Dichloromethane	ND	20 µg/L	54 Bromobenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	6.5	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 4-Chlorotoluene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 2-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	780	2.5 µg/L	58 1,3,5-Trimethylbenzene	6.3	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 tert-Butylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 1,2,4-Trimethylbenzene	32	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 sec-Butylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 1,3-Dichlorobenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,4-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 4-Isopropyltoluene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 1,2-Dichlorobenzene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 n-Butylbenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2,4-Trichlorobenzene	ND	20 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 Naphthalene	38	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 1,2,3-Trichlorobenzene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC
28 Benzene	1,900	50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L			
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	19	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

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

\*This analyte was analyzed separately on 7/29/09 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

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7/31/09

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: GMT09072342-04A  
Client I.D. Number: MW-SF-1

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

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

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	180	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	43	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Styrene	ND	50 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 o-Xylene	46	25 µg/L
7 Acetone	ND	1,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	50 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,2,3-Trichloropropane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	540	500 µg/L	53 Isopropylbenzene	ND	50 µg/L
10 Dichloromethane	ND	200 µg/L	54 Bromobenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 n-Propylbenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 4-Chlorotoluene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 2-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	510	25 µg/L	58 1,3,5-Trimethylbenzene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 tert-Butylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 1,2,4-Trimethylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 sec-Butylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 1,3-Dichlorobenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,4-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 4-Isopropyltoluene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 1,2-Dichlorobenzene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 n-Butylbenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2,4-Trichlorobenzene	ND	200 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 Naphthalene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 1,2,3-Trichlorobenzene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC
28 Benzene	6,300	25 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
30 Dibromomethane	ND	50 µg/L			
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	110	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

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

ND = Not Detected

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

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7/31/09

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: GMT09072342-05A  
Client I.D. Number: GMW-0-14

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

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

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	1,500	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	2,300	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Styrene	ND	50 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 o-Xylene	1,800	25 µg/L
7 Acetone	ND	1,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	50 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,2,3-Trichloropropane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 Isopropylbenzene	ND	50 µg/L
10 Dichloromethane	ND	200 µg/L	54 Bromobenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 n-Propylbenzene	80	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 4-Chlorotoluene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 2-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 1,3,5-Trimethylbenzene	120	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 tert-Butylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 1,2,4-Trimethylbenzene	1,000	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 sec-Butylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	130	50 µg/L	62 1,3-Dichlorobenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,4-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 4-Isopropyltoluene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 1,2-Dichlorobenzene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 n-Butylbenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
24 1,2-Dichloroethane	86	50 µg/L	68 1,2,4-Trichlorobenzene	ND	200 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 Naphthalene	330	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 1,2,3-Trichlorobenzene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 Surr: 1,2-Dichloroethane-d4	81	(70-130) %REC
28 Benzene	7,800	25 µg/L	72 Surr: Toluene-d8	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
30 Dibromomethane	ND	50 µg/L			
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	1,900	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

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

ND = Not Detected

Roger 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

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: GMT09072342-06A  
Client I.D. Number: DUP-3

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

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

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	1,400	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	2,200	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Styrene	ND	50 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 o-Xylene	1,700	25 µg/L
7 Acetone	ND	1,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	50 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,2,3-Trichloropropane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 Isopropylbenzene	ND	50 µg/L
10 Dichloromethane	ND	200 µg/L	54 Bromobenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 n-Propylbenzene	78	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 4-Chlorotoluene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 2-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 1,3,5-Trimethylbenzene	110	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 tert-Butylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 1,2,4-Trimethylbenzene	990	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 sec-Butylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	140	50 µg/L	62 1,3-Dichlorobenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,4-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 4-Isopropyltoluene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 1,2-Dichlorobenzene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 n-Butylbenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
24 1,2-Dichloroethane	93	50 µg/L	68 1,2,4-Trichlorobenzene	ND	200 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 Naphthalene	350	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 1,2,3-Trichlorobenzene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC
28 Benzene	7,800	25 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
30 Dibromomethane	ND	50 µg/L			
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	1,900	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

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

ND = Not Detected

Roger 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.

7/31/09

Report Date

Page 1 of 1



# 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: GMT09072342-07A  
Client I.D. Number: GMW-36

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

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

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	720	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	2,400	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Styrene	ND	50 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 o-Xylene	980	25 µg/L
7 Acetone	ND	1,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	50 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,2,3-Trichloropropane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 Isopropylbenzene	ND	50 µg/L
10 Dichloromethane	ND	200 µg/L	54 Bromobenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 n-Propylbenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 4-Chlorotoluene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 2-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	28	25 µg/L	58 1,3,5-Trimethylbenzene	110	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 tert-Butylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 1,2,4-Trimethylbenzene	450	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 sec-Butylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 1,3-Dichlorobenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,4-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 4-Isopropyltoluene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 1,2-Dichlorobenzene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 n-Butylbenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2,4-Trichlorobenzene	ND	200 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 Naphthalene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 1,2,3-Trichlorobenzene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC
28 Benzene	3,800	25 µg/L	72 Surr: Toluene-d8	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: 4-Bromofluorobenzene	93	(70-130) %REC
30 Dibromomethane	ND	50 µg/L			
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	5,400	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

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

ND = Not Detected

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

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7/31/09

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: GMT09072342-08A  
Client I.D. Number: EB-3

Sampled: 07/22/09  
Received: 07/23/09  
Analyzed: 07/29/09

### 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	84	(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	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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

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*YJG*

7/31/09

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## VOC Sample Preservation Report

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**Work Order:** GMT09072342

**Project:** KMEP NORWALK

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
09072342-01A	TB-3	Aqueous	2
09072342-02A	PZ-5	Aqueous	2
09072342-03A	DUP-2	Aqueous	2
09072342-04A	MW-SF-1	Aqueous	2
09072342-05A	GMW-0-14	Aqueous	2
09072342-06A	DUP-3	Aqueous	2
09072342-07A	GMW-36	Aqueous	2
09072342-08A	EB-3	Aqueous	2

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7/31/09  
**Report Date**



# Alpha Analytical, Inc.

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Date:  
31-Jul-09

## QC Summary Report

Work Order:  
09072342

### Method Blank

File ID:	Type	MBLK	Test Code:	EPA Method SW8015 / E						
Sample ID:	Units :	mg/L	Run ID:	FID_7_090724A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	99.6		100		99.6	57	147			

### Laboratory Control Spike

File ID:	Type	LCS	Test Code:	EPA Method SW8015 / E						
Sample ID:	Units :	mg/L	Run ID:	FID_7_090724A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.73	0.5	2.5		109	67	130			
Surr: Nonane	99.9		100		99.9	57	147			

### Sample Matrix Spike

File ID:	Type	MS	Test Code:	EPA Method SW8015 / E						
Sample ID:	Units :	mg/L	Run ID:	FID_7_090724A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.25	0.5	2.5	0	130	49	150			
Surr: Nonane	95		100		95	57	147			

### Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	EPA Method SW8015 / E						
Sample ID:	Units :	mg/L	Run ID:	FID_7_090724A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	3.06	0.5	2.5	0	122	49	150	3.248	6.1(38)	
Surr: Nonane	57.2		100		57	57	147			

### Comments:

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



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Date:  
31-Jul-09

## QC Summary Report

Work Order:  
09072342

### Method Blank

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

File ID: **C:\HPCHEM\MS07\DATA\090729\09072906.D**

Batch ID: **MS07W0729B**

Analysis Date: **07/29/2009 11:44**

Sample ID: **MBLK MS07W0729B**

Units : **mg/L**

Run ID: **MSD\_07\_090729A**

Prep Date: **07/29/2009**

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	0.00818		0.01		82	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.00985		0.01		99	70	130			

### Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS07\DATA\090729\09072903.D**

Batch ID: **MS07W0729B**

Analysis Date: **07/29/2009 10:37**

Sample ID: **GLCS MS07W0729B**

Units : **mg/L**

Run ID: **MSD\_07\_090729A**

Prep Date: **07/29/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.367	0.05	0.4		92	70	130			
Surr: 1,2-Dichloroethane-d4	0.00833		0.01		83	70	130			
Surr: Toluene-d8	0.00974		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

### Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS07\DATA\090729\09072915.D**

Batch ID: **MS07W0729B**

Analysis Date: **07/29/2009 15:06**

Sample ID: **09072853-03AGS**

Units : **mg/L**

Run ID: **MSD\_07\_090729A**

Prep Date: **07/29/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.75	0.25	2	0	87	58	135			
Surr: 1,2-Dichloroethane-d4	0.0414		0.05		83	70	130			
Surr: Toluene-d8	0.0494		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0478		0.05		96	70	130			

### Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS07\DATA\090729\09072916.D**

Batch ID: **MS07W0729B**

Analysis Date: **07/29/2009 15:29**

Sample ID: **09072853-03AGSD**

Units : **mg/L**

Run ID: **MSD\_07\_090729A**

Prep Date: **07/29/2009**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.85	0.25	2	0	93	58	135	1.75	5.8(20)	
Surr: 1,2-Dichloroethane-d4	0.0416		0.05		83	70	130			
Surr: Toluene-d8	0.0497		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0487		0.05		97	70	130			

### Comments:

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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
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Date: 31-Jul-09 **QC Summary Report** Work Order: 09072342

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	8.18		10		82	70	130		
Surr: Toluene-d8	10.2		10		102	70	130		
Surr: 4-Bromofluorobenzene	9.85		10		99	70	130		

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS07\DATA\090729\09072904.D

Batch ID: MS07W0729A

Analysis Date: 07/29/2009 10:59

Sample ID: LCS MS07W0729A

Units: µg/L

Run ID: MSD\_07\_090729A

Prep Date: 07/29/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.63	1	10		86	80	120			
Methyl tert-butyl ether (MTBE)	11.1	0.5	10		111	62	136			
Benzene	10.3	0.5	10		103	70	130			
Trichloroethene	10.6	1	10		106	70	130			
Toluene	10.5	0.5	10		105	80	120			
Chlorobenzene	9.83	1	10		98	70	130			
Ethylbenzene	9.89	0.5	10		99	80	120			
m,p-Xylene	11.4	0.5	10		114	70	130			
o-Xylene	9.97	0.5	10		99.7	70	130			
Surr: 1,2-Dichloroethane-d4	8.35		10		84	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.85		10		99	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS07\DATA\090729\09072913.D

Batch ID: MS07W0729A

Analysis Date: 07/29/2009 14:21

Sample ID: 09072853-03AMS

Units: µg/L

Run ID: MSD\_07\_090729A

Prep Date: 07/29/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	40.8	2.5	50	0	82	60	130			
Methyl tert-butyl ether (MTBE)	47.7	1.3	50	0	95	56	141			
Benzene	49.3	1.3	50	0	99	67	130			
Trichloroethene	49.7	2.5	50	0	99	69	130			
Toluene	50.1	1.3	50	0	100	66	130			
Chlorobenzene	48.5	2.5	50	0	97	70	130			
Ethylbenzene	48.1	1.3	50	0	96	68	130			
m,p-Xylene	55.5	1.3	50	0	111	64	130			
o-Xylene	48.6	1.3	50	0	97	70	130			
Surr: 1,2-Dichloroethane-d4	42.9		50		86	70	130			
Surr: Toluene-d8	49.5		50		99	70	130			
Surr: 4-Bromofluorobenzene	47.4		50		95	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS07\DATA\090729\09072914.D

Batch ID: MS07W0729A

Analysis Date: 07/29/2009 14:44

Sample ID: 09072853-03AMSD

Units: µg/L

Run ID: MSD\_07\_090729A

Prep Date: 07/29/2009

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	42.9	2.5	50	0	86	60	130	40.84	4.9(20)	
Methyl tert-butyl ether (MTBE)	51.3	1.3	50	0	103	56	141	47.73	7.2(20)	
Benzene	49	1.3	50	0	98	67	130	49.29	0.5(20)	
Trichloroethene	49.2	2.5	50	0	98	69	130	49.69	1.0(20)	
Toluene	49.7	1.3	50	0	99	66	130	50.11	0.8(20)	
Chlorobenzene	47.9	2.5	50	0	96	70	130	48.48	1.3(20)	
Ethylbenzene	47.6	1.3	50	0	95	68	130	48.13	1.1(20)	
m,p-Xylene	54.8	1.3	50	0	110	64	130	55.54	1.4(20)	
o-Xylene	47.9	1.3	50	0	96	70	130	48.62	1.4(20)	
Surr: 1,2-Dichloroethane-d4	43.4		50		87	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130			





# *Alpha Analytical, Inc.*

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

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

**Date:**  
31-Jul-09

## QC Summary Report

**Work Order:**  
09072342

**Comments:**

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

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

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

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

WorkOrder : GMTC09072342

Report Due By : 5:00 PM On : 03-Aug-09

Client:  
AMEC Geomatrix Consultants  
510 Superior Avenue, Suite 200

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

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : T. RHYMES

Newport Beach, CA 92663-3627

PO :

Cooler Temp	Samples Received	Date Printed
4 °C	23-Jul-09	23-Jul-09

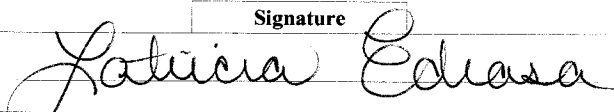
Client's COC # : none

Job : KMEP NORWALK

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests			Sample Remarks
				Alpha	Sub	TAT	TPHE_W	TPH/P_W	VOC_W	
GMT09072342-01A	TB-3	AQ	07/22/09 07:00	2	0	7			TPHE(0.10) +Vinyl acetate	2 Client provided trip blanks
GMT09072342-02A	PZ-5	AQ	07/22/09 08:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09072342-03A	DUP-2	AQ	07/22/09 00:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09072342-04A	MW-SF-1	AQ	07/22/09 09:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09072342-05A	GMW-0-14	AQ	07/22/09 10:15	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09072342-06A	DUP-3	AQ	07/22/09 00:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09072342-07A	GMW-36	AQ	07/22/09 11:25	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09072342-08A	EB-3	AQ	07/22/09 12:00	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

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

Signature	Print Name	Company	Date/Time
	Latricia Edrosa	Alpha Analytical, Inc.	7/23/09 11:40

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

# BLAINE

TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 1

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

CHAIN OF

CLIENT **Kinder Morgan**

SITE **Norwalk**

**15306 Norwalk Blvd, Norwalk**

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

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (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)	Nitrate and Nitrite (EPA 300.0)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AQ= Water	#	Preservation	Type												
TB-3	7.22.09	0700	AQ	2	HCL	VOA		X										GMT09072342-01
PZ-5		0805		6			X	X										-02
DUP-2							X	X										-03
MW-SF-1		0905					X	X							Alpha Analytical Sample Receipt			-04
GMW-0-14		1015					X	X							Security Seals? YES	NO		-05
DUP-3							X	X							Frozen Ice? YES	NO		-06
GMW-36		1125					X	X										-07
EB-3		1200					X	X							Temperature 4	°C		-08

SAMPLING COMPLETED **7.22.09 1230** | SAMPLING PERFORMED BY **T. RHYMES** | RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY **Nicole** | TIME **1420** | RECEIVED BY **FEDEX** | DATE **7/22/09** | TIME **1420**

RELEASED BY | TIME | RECEIVED BY **Leticia Colasa** | DATE **7/23/09** | TIME **11:40**

RELEASED BY | TIME | RECEIVED BY

SHIPPED VIA | TIME SENT | COOLER #