



Oil Products G

Denis L. Brown

Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

June 7, 2005

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Groundwater Monitoring Report – First Quarter 2005
Shell-branded Service Station
9750 Golf Links Road
Oakland, California
SAP Code: 135683
Incident No. 98995744

RECEIVED
JUL 6 2005
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

Dear Mr. Wickham:

Equilon Enterprises LLC dba Shell Oil Products US (Shell) is providing this cover letter for the attached report as recommended in Appendix A of the “Tri-Regional Board Staff Recommendation For Preliminary Evaluation and Investigation of Underground Tank Sites”.

To the best of Shell’s knowledge:

- Local Implementing Agency (LIA) guidelines have been implemented.
- The attached reports are accurate.
- Shell agrees with the conclusions and recommendations contained with the report.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Shell Oil Products US

Denis L. Brown

Sr. Environmental Engineer

June 7, 2005

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Groundwater Monitoring Report - First Quarter 2005**
Shell-branded Service Station
9750 Golf Links Road
Oakland, California
SAP Code 135683
Incident #98995744
Fuel Leak Case # RO0002441



Dear Mr. Wickham:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

FIRST QUARTER 2005 ACTIVITIES

Blaine Tech Services, Inc. (Blaine) of San Jose, California developed, gauged, and sampled all site wells and prepared a summary table of field gauging and laboratory analytical data. Cambria prepared a vicinity/area well survey map (Figure 1) and a groundwater contour/chemical concentration map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Appendix A.

ANTICIPATED SECOND QUARTER 2005 ACTIVITIES

Blaine will gauge and sample all site wells and tabulate the data. Cambria will prepare a groundwater monitoring report.

**Cambria
Environmental
Technology, Inc.**

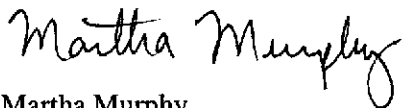
270 Perkins Street
Sonoma, CA 95476
Tel (707) 935-4850
Fax (707) 935-6649

C A M B R I A

CLOSING

If you have any questions or comments regarding this submittal, please call Ana Friel at (707) 268-3812.

Sincerely,
Cambria Environmental Technology, Inc



Martha Murphy
Staff Geologist



Ana Friel
Senior Project Geologist
PG 6452



Attachments:

- Figure 1. Site Vicinity/Area Well Survey Map
- Figure 2. Groundwater Contour/Chemical Concentration Map

- Appendix A. Blaine Tech Services – Groundwater Monitoring Report

cc: Mr. Denis Brown, Shell

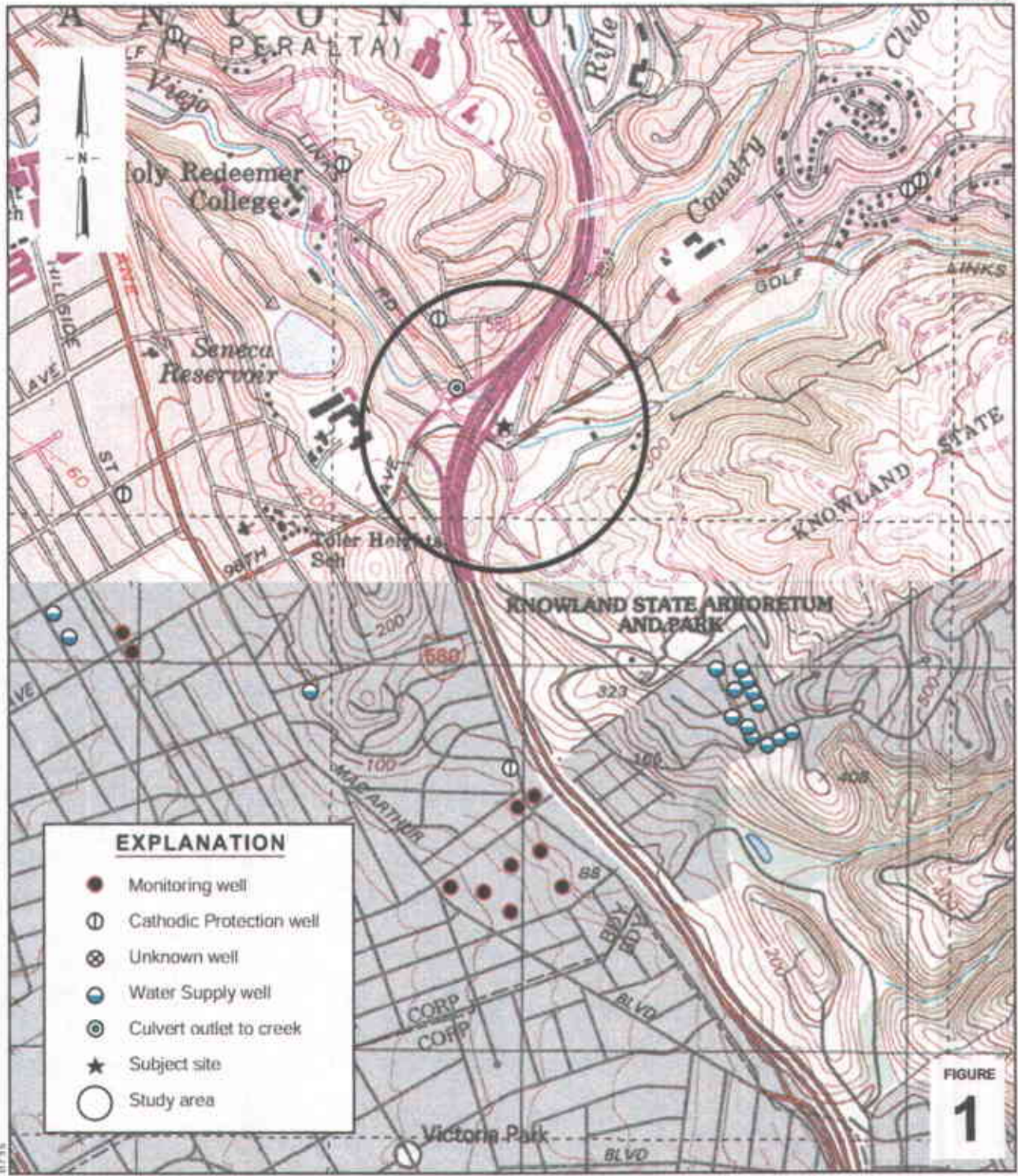


FIGURE
1









Shell-branded Service Station
 9750 Golf Links Road
 Oakland, California



C A M B R I A

**Site Vicinity/
 Area Well Survey Map**
 (1/4-Mile Radius)

EXPLANATION

-  Groundwater monitoring well
-  Attempted monitoring well
-  Groundwater elevation in feet referenced to mean sea level (ft msl). Arrows indicate approximate groundwater flow direction.
- 1.90** Groundwater elevation in ft msl
- (<0.50)** Benzene concentration in parts per billion (ppb)
- (45)** MTBE concentration in ppb
- <x** Not detected at reporting limit x
-  Storm drain line
-  Sanitary sewer line
-  Water line
-  Electrical line
-  Electrical line

Approximate hydraulic gradient = 0.08

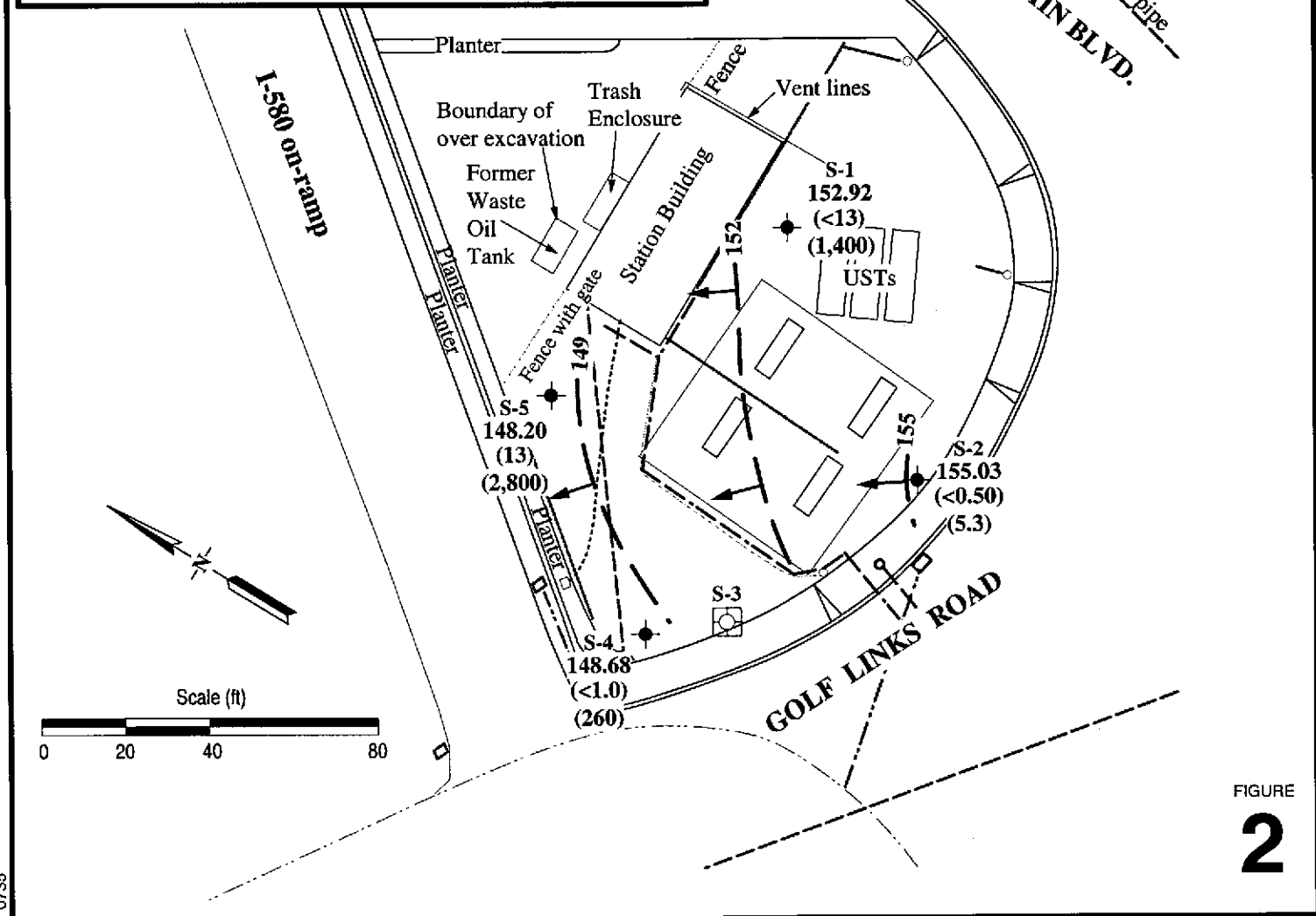


FIGURE
2

Shell-branded Service Station
9750 Golf Links Road
Oakland, California



CAMBRIA

**Groundwater Contour/Chemical
Concentration Map**

March 23, 2005

0735

Appendix A

**Blaine Tech Services
Groundwater Monitoring Report**

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

April 14, 2005

Carol Campagna
HSE – Environmental Services
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

First Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
9750 Golf Links Road
Oakland, CA

Monitoring performed on March 8 and 23, 2005

Groundwater Monitoring Report **050323-WC-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins St.
Sonoma, CA 95476

WELL CONCENTRATIONS
Shell-branded Service Station
9750 Golf Links Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Methanol (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-1	03/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.54	7.65	152.89
S-1	03/23/2005	13,000	<13	<13	89	70	1,400	<50	<50	<50	460	<13	<13	<500	<1,300	160.54	7.62	152.92
S-2	03/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.23	5.64	154.59
S-2	03/23/2005	<50	<0.50	<0.50	<0.50	<1.0	5.3	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50	<500	<50	160.23	5.20	155.03
S-4	03/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	158.23	9.83	148.40
S-4	03/23/2005	<100	<1.0	<1.0	<1.0	<2.0	260	<4.0	<4.0	<4.0	<10	<1.0	<1.0	<500	<100	158.23	9.55	148.68
S-5	03/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	159.69	10.62	149.07
S-5	03/23/2005	<1,300	13	<13	26	60	2,800	<50	<50	<50	<130	<13	<13	<500	<1,300	159.69	11.49	148.20

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl tertiary butyl ether

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = Ethylene dibromide, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

Notes:

Ethanol and Methanol analyzed by EPA Method 8260B.

Site surveyed March 23, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Blaine Tech Services, Inc.

April 12, 2005

1680 Rogers Avenue

San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: BTS#050323-WC1

Project: 98995744

Site: 9750 Golf Links Rd., Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 03/24/2005 13:01

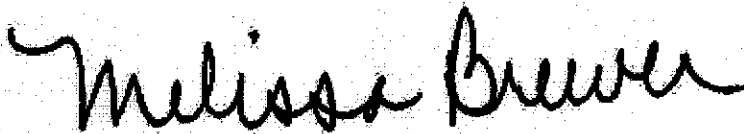
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/08/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1

98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	03/23/2005 10:45	Water	1
S-2	03/23/2005 09:45	Water	2
S-4	03/23/2005 10:30	Water	3
S-5	03/23/2005 10:16	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

03/30/2005 16:04

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prep(s):	8015M Alcohols	Test(s):	8015Mol
Sample ID:	8-1	Lab ID:	2005-03-0838-1
Sampled:	03/29/2005 10:45	Extracted:	3/29/2005 20:17
Matrix:	Water	QC Batch#:	2005/03/29 1A 20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	03/29/2005 20:17	
<i>Surrogate(s)</i> n-Butyl alcohol	101.5	60-130	%	1.00	03/29/2005 20:17	

Alcohols by GC-FID

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Event(s):	3015M Alcohols	Test(s):	3015Mod
Sample ID:	S2	Lab ID:	2005-03-0838-2
Sampled:	03/23/2005 09:45	Extracted:	3/29/2005 20:29
Matrix:	Water	QIS Batch#:	2005/03/29 1A-20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	03/29/2005 20:29	
Surrogate(s) n-Butyl alcohol	107.0	60-130	%	1.00	03/29/2005 20:29	

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prep(s):	8015M Alcohols	Test(s):	8015 Mod
Sample ID:	S-4	Lab ID:	2005-03-0838
Sampled:	03/23/2005 10:30	Extracted:	03/29/2005 20:42
Matrix:	Water	QC Batch#:	2005/03/29 1A/20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	03/29/2005 20:42	
Surrogate(s) n-Butyl alcohol	105.0	60-130	%	1.00	03/29/2005 20:42	

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1

98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prep(s):	8015M Alcohols	Test(s):	8015Meth
Sample ID:	S-5	Lab ID:	2005-03-0838-4
Sampled:	03/23/2005 10:16	Extracted:	3/29/2005 20:55
Matrix:	Water	GC Batch#:	2005/03/29/1A/20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	03/29/2005 20:55	
Surrogate(s) n-Butyl alcohol	105.9	60-130	%	1.00	03/29/2005 20:55	

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Batch QC Report		
Prep(s): 8015M Alcohols	Water	Test(s): 8015Mod
Method: Blank		QC Batch #: 2005/03/29-1A-20
MB: 2005/03/29-1A-20-001		Date Extracted: 03/29/2005 16:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Methanol	ND	0.50	mg/L	03/29/2005 16:14	
Surrogates(s) n-Butyl alcohol	95.4	60-130	%	03/29/2005 16:14	

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1

98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Batch QC Report									
Prep(s): 8015M Alcohols					Prep(s): 8016M01				
Laboratory Control Spike					Water				
QC Batch # 2005/03/29-1A-20					QC Batch # 2005/03/29-1A-20				
LCS: 2005/03/29-1A-20-002					Extracted: 03/29/2005				
LCSD					Analyzed: 03/29/2005 16:01				

Compound	Conc. mg/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methanol	49.4		50	98.8			60-130	25		
Surrogates(s) n-Butyl alcohol	49.8		50	99.6			60-130			

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Batch QC Report			
Prep(s):	8016M Alcohols	Test(s):	8015Mxd
Matrix Spike (MS / MSD)	Water	QC Batch #	2005/03/29-1A-20
MS/MSD		Lab ID	2005-03-06645-001
MS#	2005/03/29-1A-20-002	Extracted	03/29/2005 16:51
		Analyzed	03/29/2005 16:51
		Dilution	100.00
MSD	2005/03/29-1A-20-004	Extracted	03/29/2005 17:09
		Analyzed	03/29/2005 17:09
		Dilution	100.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methanol	28.4	28.5	ND	50	56.8	57.0	0.4	60-130	25	M5	M5
Surrogate(s) n-Butyl alcohol	34.5	35.6		50	69.0	71.2		60-130			

Alcohols by GC-FID

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland



Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	03/23/2005 10:45	Water	1
S-2	03/23/2005 09:45	Water	2
S-4	03/23/2005 10:30	Water	3
S-5	03/23/2005 10:16	Water	4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prep(s):	5080B	Test(s):	8260B
Sample ID:	5-1	Lab ID:	2005-03-0838
Sampled:	03/23/2005 10:45	Extracted:	05/2005 14:11
Matrix:	Water	QC Batch#:	2005/04/05-18164
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	13000	1300	ug/L	25.00	04/05/2005 14:11	
Benzene	ND	13	ug/L	25.00	04/05/2005 14:11	
Toluene	ND	13	ug/L	25.00	04/05/2005 14:11	
Ethylbenzene	89	13	ug/L	25.00	04/05/2005 14:11	
Total xylenes	70	25	ug/L	25.00	04/05/2005 14:11	
tert-Butyl alcohol (TBA)	460	130	ug/L	25.00	04/05/2005 14:11	
Methyl tert-butyl ether (MTBE)	1400	13	ug/L	25.00	04/05/2005 14:11	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	25.00	04/05/2005 14:11	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	25.00	04/05/2005 14:11	
tert-Amyl methyl ether (TAME)	ND	50	ug/L	25.00	04/05/2005 14:11	
1,2-DCA	ND	13	ug/L	25.00	04/05/2005 14:11	
EDB	ND	13	ug/L	25.00	04/05/2005 14:11	
Ethanol	ND	1300	ug/L	25.00	04/05/2005 14:11	
Surrogate(s)						
1,2-Dichloroethane-d4	110.0	73-130	%	25.00	04/05/2005 14:11	
Toluene-d8	98.6	81-114	%	25.00	04/05/2005 14:11	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prop(s): 8260B	Test(s): 8260B
Sample ID: S-2	Lab ID: 2005-03-0838-2
Sampled: 03/23/2005 09:45	Extracted: 03/23/2005 13:26
Matrix: Water	QC Batch#: 2005/03/05-EL-2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	04/05/2005 13:26	
Benzene	ND	0.50	ug/L	1.00	04/05/2005 13:26	
Toluene	ND	0.50	ug/L	1.00	04/05/2005 13:26	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2005 13:26	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2005 13:26	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/05/2005 13:26	
Methyl tert-butyl ether (MTBE)	5.3	0.50	ug/L	1.00	04/05/2005 13:26	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/05/2005 13:26	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/05/2005 13:26	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/05/2005 13:26	
1,2-DCA	ND	0.50	ug/L	1.00	04/05/2005 13:26	
EDB	ND	0.50	ug/L	1.00	04/05/2005 13:26	
Ethanol	ND	50	ug/L	1.00	04/05/2005 13:26	
Surrogate(s)						
1,2-Dichloroethane-d4	105.9	73-130	%	1.00	04/05/2005 13:26	
Toluene-d8	98.7	81-114	%	1.00	04/05/2005 13:26	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1

98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-15	Lab ID:	2005-03-0838-3
Sampled:	03/23/2005 10:30	Extracted:	05/2005 13:48
Matrix:	Water	QC Batch:	2005/04/05-1B-64
Analysis Flag: L2 (See Legend and Note section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	100	ug/L	2.00	04/05/2005 13:48	
Benzene	ND	1.0	ug/L	2.00	04/05/2005 13:48	
Toluene	ND	1.0	ug/L	2.00	04/05/2005 13:48	
Ethylbenzene	ND	1.0	ug/L	2.00	04/05/2005 13:48	
Total xylenes	ND	2.0	ug/L	2.00	04/05/2005 13:48	
tert-Butyl alcohol (TBA)	ND	10	ug/L	2.00	04/05/2005 13:48	
Methyl tert-butyl ether (MTBE)	260	1.0	ug/L	2.00	04/05/2005 13:48	
Di-isopropyl Ether (DIPE)	ND	4.0	ug/L	2.00	04/05/2005 13:48	
Ethyl tert-butyl ether (ETBE)	ND	4.0	ug/L	2.00	04/05/2005 13:48	
tert-Amyl methyl ether (TAME)	ND	4.0	ug/L	2.00	04/05/2005 13:48	
1,2-DCA	ND	1.0	ug/L	2.00	04/05/2005 13:48	
EDB	ND	1.0	ug/L	2.00	04/05/2005 13:48	
Ethanol	ND	100	ug/L	2.00	04/05/2005 13:48	
Surrogate(s)						
1,2-Dichloroethane-d4	108.6	73-130	%	2.00	04/05/2005 13:48	
Toluene-d8	100.6	81-114	%	2.00	04/05/2005 13:48	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Prep(s):	5000B	Test(s):	8260B
Sample ID:	S-5	Lab ID:	2005-03-0838-14
Sampled:	03/23/2005 10:16	Extracted:	4/5/2005 14:33
Matrix:	Water	QC Batch#:	2005/04/05-1864
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1300	ug/L	25.00	04/05/2005 14:33	
Benzene	13	13	ug/L	25.00	04/05/2005 14:33	
Toluene	ND	13	ug/L	25.00	04/05/2005 14:33	
Ethylbenzene	26	13	ug/L	25.00	04/05/2005 14:33	
Total xylenes	60	25	ug/L	25.00	04/05/2005 14:33	
tert-Butyl alcohol (TBA)	ND	130	ug/L	25.00	04/05/2005 14:33	
Methyl tert-butyl ether (MTBE)	2800	13	ug/L	25.00	04/05/2005 14:33	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	25.00	04/05/2005 14:33	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	25.00	04/05/2005 14:33	
tert-Amyl methyl ether (TAME)	ND	50	ug/L	25.00	04/05/2005 14:33	
1,2-DCA	ND	13	ug/L	25.00	04/05/2005 14:33	
EDB	ND	13	ug/L	25.00	04/05/2005 14:33	
Ethanol	ND	1300	ug/L	25.00	04/05/2005 14:33	
Surrogate(s)						
1,2-Dichloroethane-d4	109.9	73-130	%	25.00	04/05/2005 14:33	
Toluene-d8	96.9	81-114	%	25.00	04/05/2005 14:33	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Batch QC Report					
Sample: 5030B				Test(s): 8260B	
Method: Blank		Water		QC Batch #: 2005/04/05-1B-64	
MB: 2005/04/05-1B-64-021				Date Extracted: 04/05/2005 09:21	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/05/2005 09:21	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/05/2005 09:21	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/05/2005 09:21	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	04/05/2005 09:21	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	04/05/2005 09:21	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	04/05/2005 09:21	
1,2-DCA	ND	0.5	ug/L	04/05/2005 09:21	
EDB	ND	0.5	ug/L	04/05/2005 09:21	
Benzene	ND	0.5	ug/L	04/05/2005 09:21	
Toluene	ND	0.5	ug/L	04/05/2005 09:21	
Ethylbenzene	ND	0.5	ug/L	04/05/2005 09:21	
Total xylenes	ND	1.0	ug/L	04/05/2005 09:21	
Ethanol	ND	50	ug/L	04/05/2005 09:21	
Surrogates(s)					
1,2-Dichloroethane-d4	103.4	73-130	%	04/05/2005 09:21	
Toluene-d8	98.4	81-114	%	04/05/2005 09:21	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike					Water		QC Batch # 2005/04/05-1B-64		
LCS: 2005/04/05-1B-64-059			Extracted: 04/05/2005			Analyzed: 04/05/2005 08:59			
LCSD:									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.8		25	87.2			65-165	20		
Benzene	24.4		25	97.6			69-129	20		
Toluene	23.4		25	93.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	523		500	104.6			73-130			
Toluene-d8	501		500	100.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: BTS#050323-WC1

98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch #	2005/04/05-1B164
MS/MSD		Lab ID:	2005-03-0872-001
MS: 2005/04/05-1B-64-011	Extracted: 04/05/2005	Analyzed:	04/05/2005 11:11
		Dilution:	1:00
MSD: 2005/04/05-1B-64-033	Extracted: 04/05/2005	Analyzed:	04/05/2005 12:33
		Dilution:	1:00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	23.3	23.9	ND	25	93.2	95.6	2.5	65-165	20		
Benzene	25.9	26.4	ND	25	103.6	105.6	1.9	69-129	20		
Toluene	23.7	23.3	ND	25	94.8	93.2	1.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	503	501		500	100.6	100.2		73-130			
Toluene-d8	484	481		500	96.8	96.2		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050323-WC1
98995744

Received: 03/24/2005 13:01

Site: 9750 Golf Links Rd., Oakland

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

LAB: STL

SHELL Chain Of Custody Record

103611

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

2005-03-0838

INCIDENT NUMBER (SEE ONLY)

9 8 9 9 5 7 4 4

SAP & CRMT NUMBER (S/CRMT)

DATE: 3/23/05

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services		LOG CODE: BTSS	SITE ADDRESS (Street and City): 9750 Golf Links Rd., Oakland		GLOBAL ID NO.: T0600101931
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Department): Ana Friel		PHONE NO.: (707) 268-3812	CONSULTANT PROJECT NO.: 050323-WL1
PROJECT CONTACT (Hardcopy w/ PDF Reports): Leon Gearhart		SAMPLER NAME (If any): Will Crow		EMAIL: aconmaed@cambrifa-env.com	
TELEPHONE: 408-573-0555	FAX: 408-573-7771	EMAIL: lgearhart@blainetech.com		LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCS REPORT FORMAT UST AGENCY

GC/MS MS/MS CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EDD IS NOT NEEDED:

REQUESTED ANALYSIS										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
TPH - Gas, Purgeable	BTEX	MTBE (1000 RL - Spill RL)	MTBE (02500 - 0.5000 RL)	Oxygenates (57 by (02500))	Ethanol (02500)	Methanol	1,2-DCA (02500)	EDB (02500)	TPH - Diesel, Extractable (00100)	
										TEMPERATURE ON RECEIPT °C <u>7</u>
S-1	X	X	X	X	X	X	X	X	X	
S-2	X	X	X	X	X	X	X	X	X	
S-4	X	X	X	X	X	X	X	X	X	
S-5	X	X	X	X	X	X	X	X	X	

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.
	DATE	TIME				
	S-1	3/23/05	1045		H ₂ O	6
	S-2	↓	0945		↓	↓
	S-4	↓	1030		↓	↓
	S-5	↓	1016		↓	↓

Requisitioned by: (Signature) <i>Will Crow</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>3/23/05</u>	Time: <u>17:16</u>
Requisitioned by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>3/24/05</u>	Time: <u>17:16</u>
Requisitioned by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:

CAUTION: Waste may still report. Check to File, Value and Print to Email.

050323-WL1 03/24/05