R02441

Shell Oil Products US

RECEIVED
NOV 22 2005
ENVIRONMENTAL HEALTH SERVICES

November 21, 2005

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

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

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Groundwater Monitoring Report – Third Quarter 2005* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Shell Oil Products US

Denis L. Brown
Project Manager

20945 S. Wilmington Ave., Carson, CA 90810 Phone (707) 865-0251 Facsimile (707) 865-2542

CAMBRIA

RECEIVED
NOV 22 2005
ENVIRONMENTAL HEALTH SERVICES

November 21, 2005

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

Re: **Groundwater Monitoring Report - Third 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.

THIRD 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.

Methanol was not detected in the additional groundwater sample collected from well S-1 on August 2, 2005. The methanol concentration (2,800 ppb) detected in well S-1 during the second quarter 2005 sampling event may have been the result of a laboratory error.

ANTICIPATED FOURTH 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

CAMBRIA

RECEIVED
NOV 22 2005
ENVIRONMENTAL HEALTH SERVICES

CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc

for
Lisa Summers
Staff Scientist

for
Ana Friel
Senior Project Geologist
PG 6452

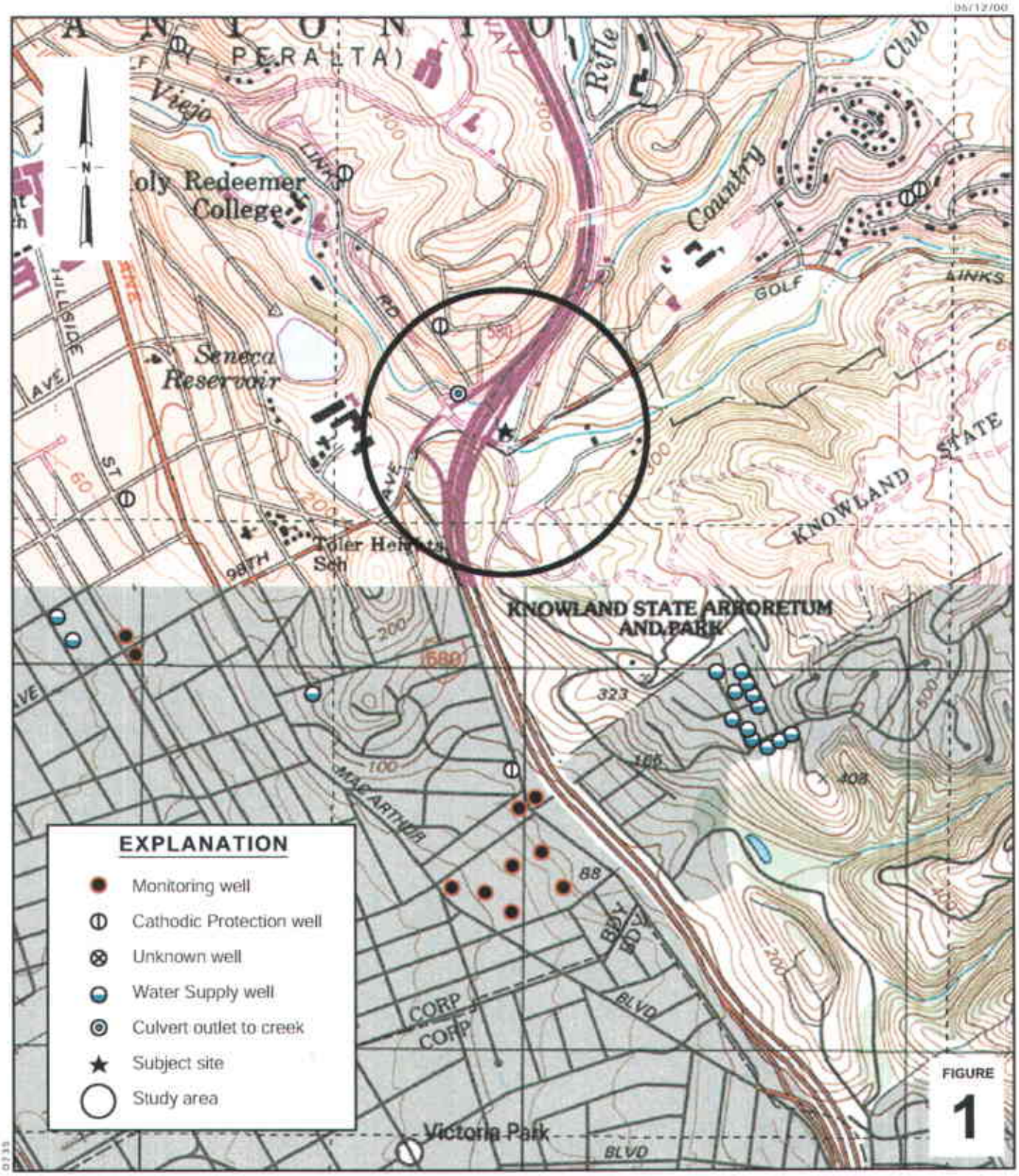
PROFESSIONAL GEOLOGIST
JOSEPH W. NEELY
No. 6927
STATE OF CALIFORNIA

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

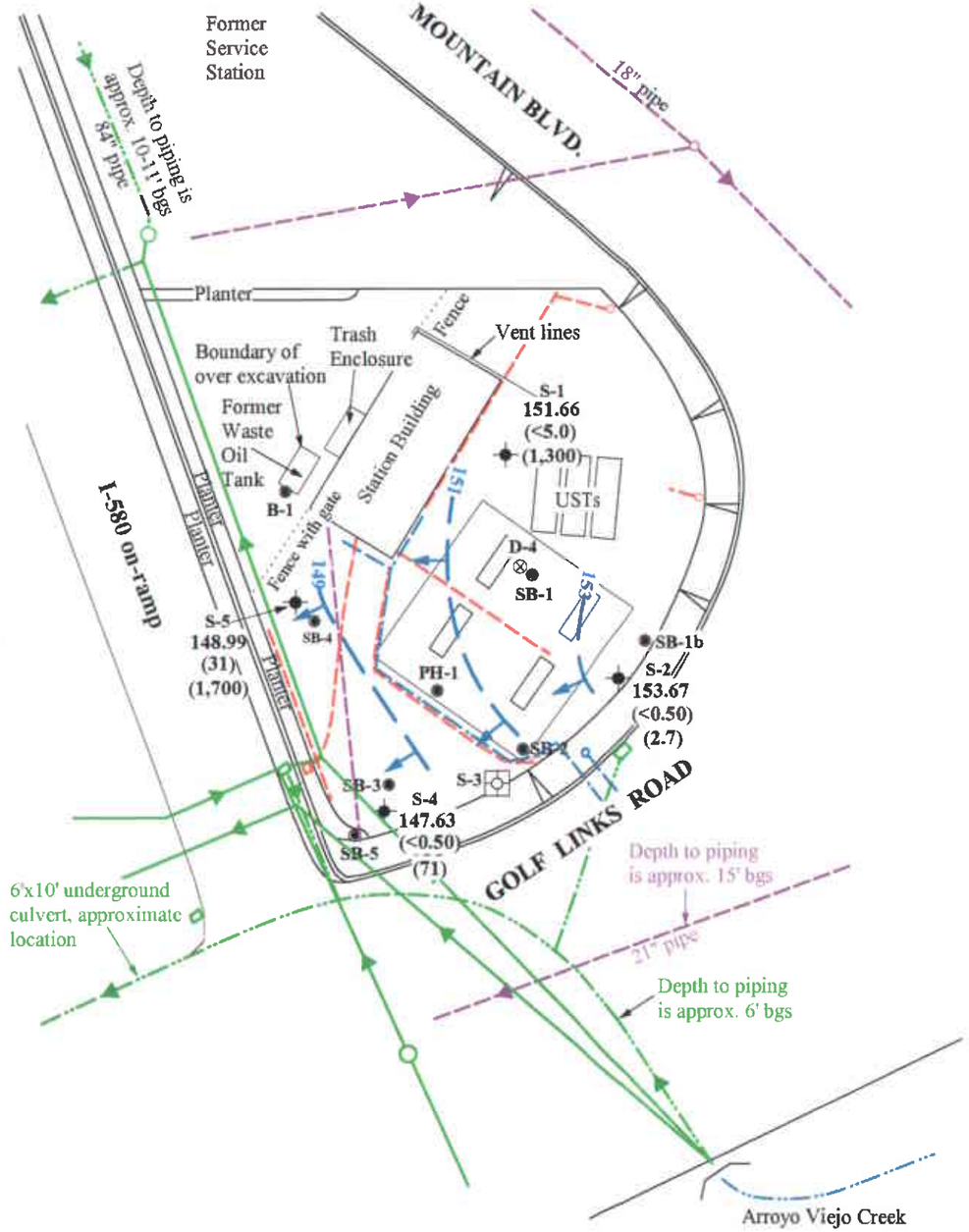


0 1/8 1/4 1/2 1
SCALE (MILES)

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

CAMBRIA

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



EXPLANATION

- Monitoring well
- Attempted monitoring well
- Soil boring
- Soil sample
- Storm drain line
- Former storm drain line
- Sanitary sewer line
- Water line
- Electrical line
- Flow direction where applicable
- 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

Approximate Hydraulic Gradient = 0.07

Scale

0 20 40 80

1 Inch = 40 Feet

FIGURE

2

0735

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

CAMBRIA

Groundwater Contour/ Chemical Concentration Map

August 29, 2005

Appendix A

Blaine Tech Services
Groundwater Monitoring Report

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

September 23, 2005

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

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

Monitoring performed on August 29, 2005

Groundwater Monitoring Report **050829-PC-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.

SAN JOSE SACRAMENTO LOS ANGELES SAN DIEGO
1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-0555 FAX (408) 573-7771 LIC. 746684 www.blainetech.com

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/cl

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	3/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.54	7.65	152.89
S-1	3/23/2005	13,000	<13	<13	89	70	1,400	<50	<50	<50	460	<13	<13	<500	<1,300	160.54	7.62	152.92
S-1	6/16/2005	9,500	<5.0	<5.0	130	66	860	<20	<20	<20	780	<5.0	<5.0	2,800	<500	160.54	7.91	152.63
S-1	8/2/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<500	NA	160.54	8.44	152.10
S-1	**8/29/2005**	**1,300 a**	**<5.0**	**<5.0**	**<5.0**	**<10**	**1,300**	**<20**	**<20**	**<20**	**1,600**	**<5.0**	**<5.0**	**<500**	**<500**	**160.54**	**8.88**	**151.66**
S-2	3/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.23	5.64	154.59
S-2	3/23/2005	<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-2	6/16/2005	<50	<0.50	<0.50	<0.50	<1.0	2.2	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50	<500	<50	160.23	5.94	154.29
S-2	**8/29/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.7**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**<0.50**	**<0.50**	**<500**	**<50**	**160.23**	**6.56**	**153.67**
S-4	3/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	158.23	9.83	148.40
S-4	3/23/2005	<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-4	6/16/2005	<50	<0.50	<0.50	<0.50	<1.0	8.0	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50	<500	<50	158.23	10.25	147.98
S-4	**8/29/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**71**	**<2.0**	**<2.0**	**<2.0**	**5.6**	**<0.50**	**<0.50**	**<500**	**<50**	**158.23**	**10.60**	**147.63**
S-5	3/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	159.69	10.62	149.07
S-5	3/23/2005	<1,300	13	<13	26	60	2,800	<50	<50	<50	<130	<13	<13	<500	<1,300	159.69	11.49	148.20
S-5	6/16/2005	<1,300	45	<13	53	<25	2,300	<50	<50	<50	380	<13	<13	<500	<1,300	159.69	10.30	149.39
S-5	**8/29/2005**	**<1,300**	**31**	**<13**	**60**	**<25**	**1,700**	**<50**	**<50**	**<50**	**320**	**<13**	**<13**	**<500**	**<1,300**	**159.69**	**10.70**	**148.99**

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)

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

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260

ETBE = Ethyl tertiary butyl ehter, analyzed by EPA Method 8260

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260

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:

a = Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

Ethanol and Methanol analyzed by EPA Method 8260B.

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

SEVERN TRENT STL

Submission#: 2005-08-0875

Blaine Tech Services, Inc.

September 16, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: BTS#050829-PC1
Project: 98995744
Site: 9750 Golf Links Rd., Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 08/30/2005 13:05
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 10/14/2005 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

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
S-1	08/29/2005 10:10	Water	1
S-2	08/29/2005 08:55	Water	2
S-4	08/29/2005 09:20	Water	3
S-5	08/29/2005 10:00	Water	4

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s):	8015M Alcohols	Test(s):	8015Mod
Sample ID:	S-1	Lab ID:	2005-08-0875 - 1
Sampled:	08/29/2005 10:10	Extracted:	9/1/2005 12:06
Matrix:	Water	QC Batch#:	2005/09/01-01.20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	09/01/2005 12:06	
Surrogate(s)						
n-Butyl alcohol	102.9	60-130	%	1.00	09/01/2005 12:06	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s): 8015M Alcohols
Test(s): 8015Mod
Sample ID: S-2
Lab ID: 2005-08-0875-2
Sampled: 08/29/2005 08:55
Extracted: 09/1/2005 12:46
Matrix: Water
HQ Batch#: 2005/09/01-01.20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	09/01/2005 12:46	
Surrogate(s)						
n-Butyl alcohol	103.7	60-130	%	1.00	09/01/2005 12:46	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s):	8015M Alcohols	Test(s):	8015Mod
Sample ID:	S-4	Lab ID:	2005-08-0875-3
Sampled:	08/29/2005 09:20	Extracted:	9/1/2005 12:59
Matrix:	Water	QC Batch#:	2005/09/01-01.20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	09/01/2005 12:59	
Surrogate(s)						
n-Butyl alcohol	104.1	60-130	%	1.00	09/01/2005 12:59	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s): 8015M Alcohols
Test(s): 8015Mod
Sample ID: S-5
Lab ID: 2005-08-0875 - 4
Sampled: 08/29/2005 10:00
Extracted: 09/1/2005 13:12
Matrix: Water
QC Batch#: 2005/09/01-01:20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	09/01/2005 13:12	
Surrogate(s)						
n-Butyl alcohol	102.1	60-130	%	1.00	09/01/2005 13:12	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 8015M Alcohols — Test(s): 8015Mod
Method Blank — Water — QC Batch # 2005/09/01-01.20
MB: 2005/09/01-01.20-001 — Date Extracted: 09/01/2005 11:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Methanol	ND	0.50	mg/L	09/01/2005 11:40	
Surrogates(s)					
n-Butyl alcohol	93.8	60-130	%	09/01/2005 11:40	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 8015M Alcohols

Test(s): 8015Mod

Laboratory Control Spike

Water

QC Batch# 2005/09/01-01.20

LCS: 2005/09/01-01.20.002

Extracted: 09/01/2005

Analyzed: 09/01/2005 11:40

LCSD:

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methanol	56.0		50.0	112.0			60-130	25		
Surrogates(s)										
n-Butyl alcohol	57.2		50	114.4			60-130	0		

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 8015M Alcohols

Test(s): 8015Mod

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/09/01-01.20**

SS1 >> MS

Lab ID: 2005-08-0875 - 001

MS: 2005/09/01-01.20-003 Extracted: 09/01/2005 Analyzed: 09/01/2005 12:19
Dilution: 1.00

MSD: 2005/09/01-01.20-004 Extracted: 09/01/2005 Analyzed: 09/01/2005 12:33
Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methanol	57.1	55.5	ND	50.0	114.2	111.0	2.8	60-130	25		
Surrogate(s)											
n-Butyl alcohol	55.7	57.4		50	111.4	114.8		60-130	0		

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	08/29/2005 10:10	Water	1
S-2	08/29/2005 08:55	Water	2
S-4	08/29/2005 09:20	Water	3
S-5	08/29/2005 10:00	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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s): 5030B Test(s): 8260B
Sample ID: S-1 Lab ID: 2005-08-0875-11
Sampled: 08/29/2005 10:10 Extracted: 09/10/2005 13:42
Matrix: Water QC Batch#: 2005/09/10-1A.64
Analysis Flag: L2 pH<2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1300	500	ug/L	10.00	09/10/2005 13:42	Q1
Benzene	ND	5.0	ug/L	10.00	09/10/2005 13:42	
Toluene	ND	5.0	ug/L	10.00	09/10/2005 13:42	
Ethylbenzene	ND	5.0	ug/L	10.00	09/10/2005 13:42	
Total xylenes	ND	10	ug/L	10.00	09/10/2005 13:42	
tert-Butyl alcohol (TBA)	1600	50	ug/L	10.00	09/10/2005 13:42	
Methyl tert-butyl ether (MTBE)	1300	5.0	ug/L	10.00	09/10/2005 13:42	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	10.00	09/10/2005 13:42	
Ethyl tert-butyl ether (ETBE)	ND	20	ug/L	10.00	09/10/2005 13:42	
tert-Amyl methyl ether (TAME)	ND	20	ug/L	10.00	09/10/2005 13:42	
1,2-DCA	ND	5.0	ug/L	10.00	09/10/2005 13:42	
EDB	ND	5.0	ug/L	10.00	09/10/2005 13:42	
Ethanol	ND	500	ug/L	10.00	09/10/2005 13:42	
Surrogate(s)						
1,2-Dichloroethane-d4	110.1	73-130	%	10.00	09/10/2005 13:42	
Toluene-d8	104.9	81-114	%	10.00	09/10/2005 13:42	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s): 5030B
Test(s): 8260B
Sample ID: S-2
Lab ID: 2005-08-0875-2
Sampled: 08/29/2005 08:55
Extracted: 9/10/2005 14:03
Matrix: Water
QC Batch#: 2005/09/10-1A.64
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/10/2005 14:03	
Benzene	ND	0.50	ug/L	1.00	09/10/2005 14:03	
Toluene	ND	0.50	ug/L	1.00	09/10/2005 14:03	
Ethylbenzene	ND	0.50	ug/L	1.00	09/10/2005 14:03	
Total xylenes	ND	1.0	ug/L	1.00	09/10/2005 14:03	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/10/2005 14:03	
Methyl tert-butyl ether (MTBE)	2.7	0.50	ug/L	1.00	09/10/2005 14:03	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/10/2005 14:03	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/10/2005 14:03	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/10/2005 14:03	
1,2-DCA	ND	0.50	ug/L	1.00	09/10/2005 14:03	
EDB	ND	0.50	ug/L	1.00	09/10/2005 14:03	
Ethanol	ND	50	ug/L	1.00	09/10/2005 14:03	
Surrogate(s)						
1,2-Dichloroethane-d4	110.6	73-130	%	1.00	09/10/2005 14:03	
Toluene-d8	105.1	81-114	%	1.00	09/10/2005 14:03	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s): 5030B
Test(s): 8260B
Sample ID: S-4
Lab ID: 2005-08-0875-3
Sampled: 08/29/2005 09:20
Extracted: 09/10/2005 14:24
Matrix: Water
QC Batch#: 2005/09/10-1A.64
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/10/2005 14:24	
Benzene	ND	0.50	ug/L	1.00	09/10/2005 14:24	
Toluene	ND	0.50	ug/L	1.00	09/10/2005 14:24	
Ethylbenzene	ND	0.50	ug/L	1.00	09/10/2005 14:24	
Total xylenes	ND	1.0	ug/L	1.00	09/10/2005 14:24	
tert-Butyl alcohol (TBA)	5.6	5.0	ug/L	1.00	09/10/2005 14:24	
Methyl tert-butyl ether (MTBE)	71	0.50	ug/L	1.00	09/10/2005 14:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/10/2005 14:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/10/2005 14:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/10/2005 14:24	
1,2-DCA	ND	0.50	ug/L	1.00	09/10/2005 14:24	
EDB	ND	0.50	ug/L	1.00	09/10/2005 14:24	
Ethanol	ND	50	ug/L	1.00	09/10/2005 14:24	
Surrogate(s)						
1,2-Dichloroethane-d4	102.6	73-130	%	1.00	09/10/2005 14:24	
Toluene-d8	103.8	81-114	%	1.00	09/10/2005 14:24	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Prep(s): 5030B
Test(s): 8260B
Sample ID: S-5
Lab ID#: 2005-08-0875-4
Sampled: 08/29/2005 10:00
Extracted: 9/10/2005 13:45
Matrix: Water
QC Batch#: 2005/09/10-1A-54
Analysis Flag: L2-pH <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1300	ug/L	25.00	09/10/2005 14:45	
Benzene	31	13	ug/L	25.00	09/10/2005 14:45	
Toluene	ND	13	ug/L	25.00	09/10/2005 14:45	
Ethylbenzene	60	13	ug/L	25.00	09/10/2005 14:45	
Total xylenes	ND	25	ug/L	25.00	09/10/2005 14:45	
tert-Butyl alcohol (TBA)	320	130	ug/L	25.00	09/10/2005 14:45	
Methyl tert-butyl ether (MTBE)	1700	13	ug/L	25.00	09/10/2005 14:45	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	25.00	09/10/2005 14:45	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	25.00	09/10/2005 14:45	
tert-Amyl methyl ether (TAME)	ND	50	ug/L	25.00	09/10/2005 14:45	
1,2-DCA	ND	13	ug/L	25.00	09/10/2005 14:45	
EDB	ND	13	ug/L	25.00	09/10/2005 14:45	
Ethanol	ND	1300	ug/L	25.00	09/10/2005 14:45	
Surrogate(s)						
1,2-Dichloroethane-d4	107.8	73-130	%	25.00	09/10/2005 14:45	
Toluene-d8	106.9	81-114	%	25.00	09/10/2005 14:45	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 5030B
Test(s): 8260B
Method Blank
Water
QC Batch # 2005/09/10-1A.64
MB: 2005/09/10-1A.64-010
Date Extracted: 09/10/2005 09:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/10/2005 09:10	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/10/2005 09:10	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/10/2005 09:10	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/10/2005 09:10	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/10/2005 09:10	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/10/2005 09:10	
1,2-DCA	ND	0.5	ug/L	09/10/2005 09:10	
EDB	ND	0.5	ug/L	09/10/2005 09:10	
Benzene	ND	0.5	ug/L	09/10/2005 09:10	
Toluene	ND	0.5	ug/L	09/10/2005 09:10	
Ethylbenzene	ND	0.5	ug/L	09/10/2005 09:10	
Total xylenes	ND	1.0	ug/L	09/10/2005 09:10	
Ethanol	ND	50	ug/L	09/10/2005 09:10	
Surrogates(s)					
1,2-Dichloroethane-d4	100.8	73-130	%	09/10/2005 09:10	
Toluene-d8	101.2	81-114	%	09/10/2005 09:10	

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 5030B | Test(s): 8260B

Laboratory Control Spike | Water | QC Batch # 2005/09/10-1A.64

LCS 2005/09/10-1A.61049 | Extracted: 09/10/2005 | Analyzed: 09/10/2005 08:49

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.6		25	102.4			65-165	20		
Benzene	28.3		25	113.2			69-129	20		
Toluene	27.6		25	110.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	436		500	87.2			73-130			
Toluene-d8	519		500	103.8			81-114			

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#050829-PC1
98995744

Received: 08/30/2005 13:05

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 5030B | Test(s): 8260B

Matrix Spike (MS / MSD) | **Water** | **QC Batch # 2005/09/10-1A.64**

MS/MSD | Lab ID: 2005-09-0131-003

MS: 2005/09/10-1A.64-016 | Extracted: 09/10/2005 | Analyzed: 09/10/2005 11:16 | Dilution: 1.00

MSD: 2005/09/10-1A.64-037 | Extracted: 09/10/2005 | Analyzed: 09/10/2005 11:37 | Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	25.9	23.0	ND	25	103.6	92.0	11.9	65-165	20		
Benzene	27.7	24.7	ND	25	110.8	98.8	11.5	69-129	20		
Toluene	28.1	25.2	ND	25	112.4	100.8	10.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	461	466		500	92.2	93.2		73-130			
Toluene-d8	539	533		500	107.8	106.6		81-114			

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#050829-PC1
98995744

Received: 08/30/2005 13:05

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.

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

LAB: SIV

SHELL Chain Of Custody Record

970416

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ EMT HOUSTON

Denis Brown

2005-08-0875

INCIDENT NUMBER (SAP ONLY): 9 8 9 9 5 7 4 4

SAP or CRMT NUMBER (TS/CRMT):

DATE: 8/29/05

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS (Street and City): 9750 Golf Links Rd., Oakland

SITE GLOBAL ID NO.: T0600101931

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Recipient Lab Pro or Designee): Ana Friel

PHONE NO.: (707) 268-3812

E-MAIL: sanomaedit@cambria-env.com

CONSULTANT PROJECT NO.: 050029-01

PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart

TELEPHONE: 408-573-0555

FAX: 408-573-7771

E-MAIL: lgearhart@blainetech.com

BTS #:

SAMPLER NAME(S) (Print): P. Cornish

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST ____ HIGHEST per SCRING ____ ALL ____

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)										FIELD NOTES: Contained/Preservative or PID Readings or Laboratory Notes
	S-1	8/29/05	1010	W	6	X	X			X	X	X	X	X												2°C
	S-2	↓	855	↓	6	X	X			X	X	X	X	X												
	S-4		920		6	X	X			X	X	X	X	X												
	S-5		1000		6	X	X			X	X	X	X	X												

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature] Approved Sample Custody	8/29/05	1404
[signature] Sample Custody	[signature]	8/30/05	1305
[signature] 8/30/05	[signature]	8/30/05	1630

Relinquished by: (Signature) / Received by: (Signature) / Relinquished by: (Signature) / Received by: (Signature)

White - Lab; Yellow - Shell; Pink - Client

BIO-Q Graphic (510) 483-8702

SEVERN TRENT STL

Submission#: 2005-08-0097

Blaine Tech Services, Inc.

August 09, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 050802-SS3
Project: 98995744
Site: 9750 Golf Links Rd., Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 08/03/2005 11:45
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 09/17/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2005-08-0097

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: 050802-SS3
98995744

Received: 08/03/2005 11:45

Site: 9750 Golf Links Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	08/02/2005 14:08	Water	1

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: 050802-SS3
98995744

Received: 08/03/2005 11:45

Site: 9750 Golf Links Rd., Oakland

Prep(s): 8015M Alcohols
Test(s): 8015Mod
Sample ID: S-1
Lab ID: 2005-08-0097-1
Sampled: 08/02/2005 14:08
Extracted: 8/5/2005 15:19
Matrix: Water
QC Batch#: 2005/08/05-01.20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	08/05/2005 15:19	
Surrogate(s)						
n-Butyl alcohol	115.9	60-130	%	1.00	08/05/2005 15:19	

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: 050802-SS3
98995744

Received: 08/03/2005 11:45

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 8015M Alcohols | Test(s): 8015Mod
Method Blank | **Water** | **QC Batch# 2005/08/05-01.20**
MB: 2005/08/05-01.20-006 | Date Extracted: 08/05/2005 11:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Methanol	ND	0.50	mg/L	08/05/2005 11:48	
Surrogates(s)					
n-Butyl alcohol	79.4	60-130	%	08/05/2005 11:48	

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: 050802-SS3
98995744

Received: 08/03/2005 11:45

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 8015M Alcohols | Test(s): 8015Mod

Laboratory Control Spike | **Water** | **QC Batch # 2005/08/05-01.20**

LCS 2005/08/05-01.20-002 | Extracted: 08/05/2005 | Analyzed: 08/05/2005 11:18

LCSD 2005/08/05-01.20-003 | Extracted: 08/05/2005 | Analyzed: 08/05/2005 11:33

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methanol	51.0	47.0	50.0	102.0	94.0	8.2	60-130	25		
Surrogates(s)										
n-Butyl alcohol	35.9	42.4	50	71.8	84.8		60-130	0		

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: 050802-SS3
98995744

Received: 08/03/2005 11:45

Site: 9750 Golf Links Rd., Oakland

Batch QC Report

Prep(s): 8015M Alcohols — Test(s): 8015Mod

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2005/08/05-01.20**

MS/MSD — Lab ID: 2005/08-0036 - 015

MS: 2005/08/05-01.20-004 — Extracted: 08/05/2005 — Analyzed: 08/05/2005 12:36 — Dilution: 1.00

MSD: 2005/08/05-01.20-005 — Extracted: 08/05/2005 — Analyzed: 08/05/2005 12:50 — Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methanol	53.2	58.0	ND	50.0	106.4	116.0	8.6	60-130	25		
Surrogate(s)											
n-Butyl alcohol	51.9	54.6		50	103.8	109.2		60-130	0		

LAB: STL

SHELL Chain Of Custody Record

117275

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ GMT HOUSTON

Denis Brown

2005-08-0097

INCIDENT NUMBER (SSE ONLY): 9 8 9 9 5 7 4 4

SAP or CRMT NUMBER (TS/CRMT)

DATE: 8/2/05

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	9750 Golf Links Rd., Oakland	T0600101931

ADDRESS:	EDF DELIVERABLE TO (Electronic Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Ana Friel	(707) 268-3812	sonomaedf@cambria-env.com	050802-553

PROJECT CONTACT (Hardcopy or PDF Report to)	TELEPHONE	FAX	E-MAIL	SAMPLER NAME(S) (Print)	BTS #
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blaineltech.com	SUCHEON SUNG	

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE 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

3

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)								TEMPERATURE ON RECEIPT C°
	S-1	8/2/05	1408	GW	3							X												

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature] Sample Custodian	8/2/05	1510
SAMPLE CUSTODIAN	[signature]	8/3/05	1145
[signature]	[signature]	8/3/05	1635

Fax and File to Client

CBC Graphic (714) 556-2702