



Shell Oil Products US

July 29, 2003

20305

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

Alameda County
AUG 01 2003
Environmental Health

Subject: Shell-branded Service Station
2001 Fruitvale Avenue
Oakland, California

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *Second Quarter 2003 Monitoring Report* 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 (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

July 29, 2003

Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Second Quarter 2003 Monitoring Report**
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
Incident # 97109122
Cambria Project # 245-1296-002



Dear Mr. Gholami:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

SECOND QUARTER 2003 ACTIVITIES

Monitoring Well Installation: On March 26 and 27, 2003, Cambria supervised the installation of monitoring wells MW-1, MW-2 and MW-3, as reported in Cambria's May 29, 2003 *Monitoring Well Installation Report*.

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California developed, gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a site vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, including the analytical laboratory report and supporting field documents, is presented as Attachment A.


The groundwater monitoring indicated a north-northwesterly groundwater flow direction. No indication of free product was observed in groundwater. Based upon the groundwater flow direction and the low chemical concentrations, it appears that a significant hydrocarbon plume is not present. Per the December 20, 2002 letter from Alameda County Health Care Services Agency, groundwater from well MW-1 was also analyzed for additional analytes. The results of the additional analyses are summarized on Table 1.

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Well Surveying: On May 29, 2003, Virgil Chavez Land Surveying surveyed the site wells' locations and elevations to AB2886 (Geotracker) requirements. A copy of the survey report is in Attachment B.

ANTICIPATED THIRD QUARTER 2003 ACTIVITIES



Groundwater Monitoring: The next sampling event is scheduled for third quarter 2003. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

Groundwater Monitoring Results Comparison to Risk-Based Screening Levels (RBSLs): As recommended in Cambria's May 29, 2003 *Monitoring Well Installation Report*, the groundwater monitoring results are compared below to the applicable City of Oakland and Regional Water Quality Control Board-San Francisco Bay Region (SF RWQCB) RBSLs for groundwater.

For the Oakland groundwater RBSLs for organic compounds, only the RBSLs for the residential and commercial/industrial land use and inhalation of indoor and outdoor air vapor exposure pathways are considered applicable, as discussed in Cambria's September 23, 2003 *Agency Response, Closure Request, and Contingency Work Plan*. Groundwater ingestion is not considered a complete exposure pathway. For inorganic compounds, the applicable exposure pathways are incomplete; therefore, there are no applicable RBSLs. For each compound, the more conservative Oakland groundwater RBSL is used as the screening level as presented in Table A below.

For the SF RWQCB RBSLs, Cambria used the RBSLs for groundwater where a drinking water resource is not threatened, as presented in Table B below. Since Oakland Tier I RBSLs do not include the gasoline, diesel and motor oil petroleum hydrocarbon fractions (TPHg, TPHd and TPHmo, respectively), the SF RWQCB RBSLs may be applicable to those compounds.



Table A. - Evaluation of Groundwater Concentrations vs. Oakland RBSLs

Compound	Highest Detected Concentration mg/L	Oakland Tier 1 RBSL mg/L	RBSL Exceeded?
Benzene	<0.0050	0.11	No
Toluene	<0.0050	210	No
Ethylbenzene	<0.0050	>Sol	No
Xylenes	<0.0050	>Sol	No
Tetrachloroethene	0.043	0.20	No
Trichloroethene	0.00075	0.69	No
Cadmium	<0.0020	NA	No
Chromium	0.032	NA	No
Lead	0.014	NA	No
Nickel	0.048	NA	No
Zinc	0.022	NA	No

Table B. – Evaluation of TPHg, TPHd and TRPH in Groundwater vs. SF RWQCB RBSLs

Compound	Highest Detected Concentration ug/L	SF RWQCB Tier 1 RBSL (Tables B and D) (Drinking Water Resource NOT Threatened) ug/L	RBSL Exceeded?
TPHg (TPPH)	6,100a	500	Yes
TPHd (TEPH)	160a	640 (middle distillates)	No
TPH motor oil (TRPH)	<500	640 (residual fuels)	No

Note: a) Hydrocarbon does not match pattern of laboratory's standard.

All groundwater results for detected individual organic compounds (not including TPHg, TPHd, and TPHmo) were below applicable Oakland Tier I RBSLs. The TPHg, TPHd and TPHmo detections were compared to the SF-RWQCB RBSLs. Except for TPHg, groundwater sample results for the hydrocarbon fractions were below the SF-RWQCB RBSLs.

The highest detected TPHg concentration in groundwater exceeded the SF RWQCB RBSL concentrations. However, the SF RWQCB groundwater RBSL concentrations are driven by the "aquatic life protection" component, presented in Tables F-2 and F-4b of Volume II of the RBSL guidance. The TPH "aquatic life protection" component concentration is based upon a freshwater criterion for continuous concentrations. This criterion for TPH was based upon a compilation of eco-toxicity studies conducted for the Presidio of San Francisco and adopted by the SF RWQCB in Board Order No. 96-060. Since groundwater at the site is not believed to discharge to surface water or likely to impact aquatic life, Cambria believes these values for aquatic life protection are not applicable to the site.

Another component considered in the RWQCB RBSLs for hydrocarbon mixtures is a "ceiling value" based upon preventing nuisance odors or sheens on surface water. The ceiling value component concentration for all TPH mixtures is 5,000 micrograms per liter. As groundwater is found approximately 17 feet below ground at the site, Cambria believes that the potential for nuisance odors at the site is negligible. Since Cambria determined that surface water is unlikely to be impacted by the on-site groundwater concentrations, Cambria believes the potential for creating a sheen on surface water due to site groundwater is negligible. Therefore, Cambria believes this component of the RBSL for groundwater is also not applicable to the site.

Based on this evaluation of the site's maximum groundwater concentrations relative to the criteria used to develop the SF RWQCB's RBSLs, Cambria concludes that the TPHg present in site groundwater does not present a significant risk for the site's current commercial/industrial land use or potential future residential land use.

Since all known COCs which were detected in site groundwater, other than the hydrocarbon mixtures TPHg, TPHd and TRPH, were previously evaluated for the appropriate exposure pathways using the Oakland Tier 1 RBSLs, and no Oakland RBSLs were exceeded, Cambria believes that the groundwater concentrations present at the site do not pose a significant risk to human health or the environment. At this time, Cambria believes that vapor sampling or risk management planning is not warranted for current land uses or for future unrestricted land uses.

Cambria recommends that groundwater monitoring be continued until four consecutive quarters of monitoring results are obtained. If results remain consistently below applicable RBSLs and groundwater conditions are judged not to present a significant risk to human health or the environment, Cambria anticipates recommending case closure.

CLOSING

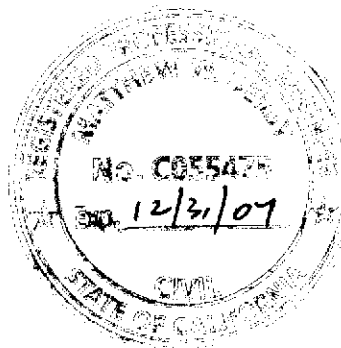
We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332, if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Matthew W. Derby

Matthew W. Derby, P.E.
Senior Project Engineer



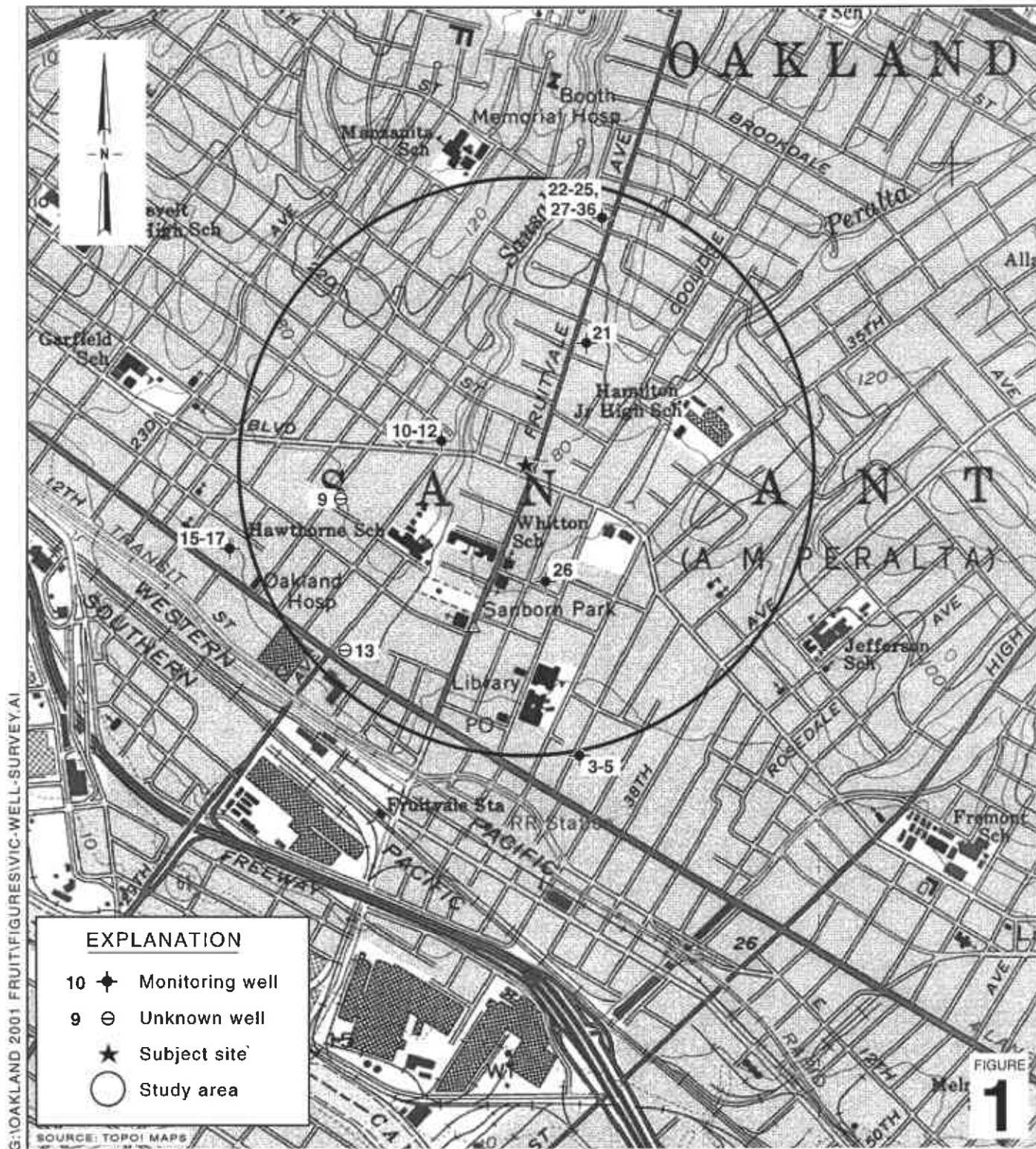
Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Analytical Data

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
B - Virgil Chavez Land Surveying Report

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869

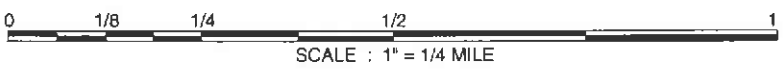
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EXPLANATION

- 10 ◆ Monitoring well
- 9 ⊖ Unknown well
- ★ Subject site
- Study area

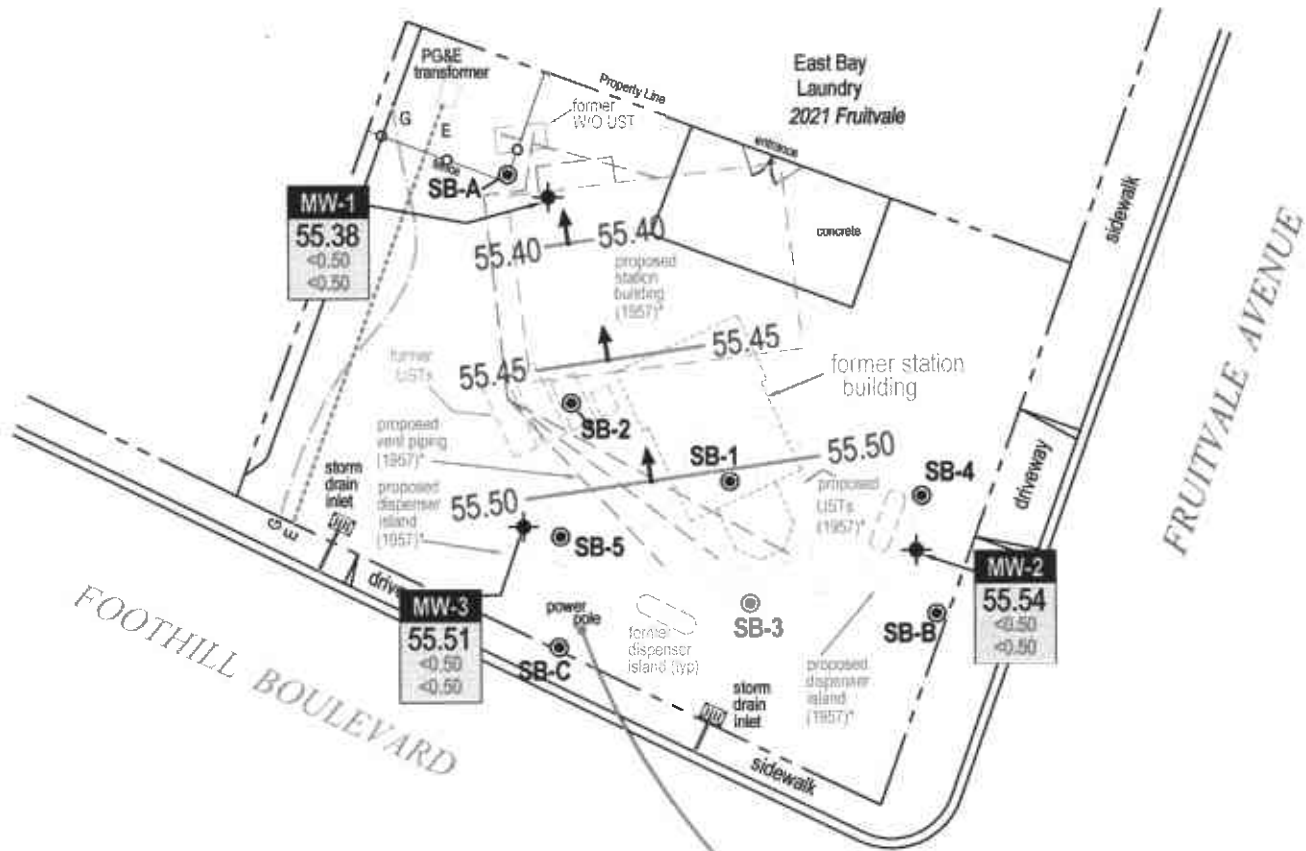


Former Shell Service Station
 2001 Fruitvale Avenue
 Oakland, California
 Incident #97109122



Site Vicinity/Area Well Survey Map
 (1/2 Mile Radius)

FIGURE 1



EXPLANATION

- MW-1** ◆ Monitoring well location (Cambria, 03/03)
- SB-A** ● Soil boring location (Cambria, 03/99)
- SB-1** ● Soil boring location (AllCal, 01/96)

- Gas line (G)
- Storm drain line (SD)
- Electrical line (E)
- Overhead electrical line (OE)

* Items marked "proposed" on 1957 site plan; undetermined if ever installed

→ Groundwater flow direction

— XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene MTBE	Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.

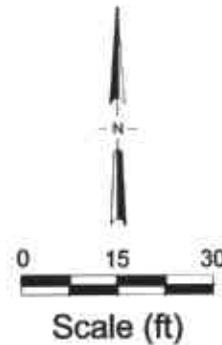


FIGURE
2

Former Shell Service Station

2001 Fruitvale Avenue
Oakland, California
Incident #97109122



C A M B R I A

**Groundwater Elevation
Contour Map**

May 13, 2003

Table 1. Groundwater Analytical Data - Shell-branded Service Station Incident #97109122 - 2001 Fruitvale Avenue, Oakland, California

Sample	Date Sampled	TPPH	TRPH	TEPH	B	T	E	X	MTBE by	MTBE by	Additional Analytes
									8020	8260A	
(Concentrations in ppb)											
Grab Groundwater Sampling Results											
SB-1	1/3/96	1,300	NA	NA	2.5	1.7	4.7	6.6	NA	NA	Lead-200ppb
SB-2	1/3/96	3,400	NA	40,000	9.6	3.9	<0.5	14	NA	NA	Lead-190ppb
SBA-W	3/31/99	1,100	23,000	28,000	13	<2.5	5.1	52	<12	<2.00	Cadmium - ND<10 ppb, Chromium-35 ppb, Lead-710 ppb, Nickel-250 ppb, Zinc-170 ppb. HVOCs ND except cis-1,2-Dichloroethene-4.1 ppb, Tetrachloroethene-15 ppb, Trichloroethene-4.7 ppb. SVOCs ND except Bis(2-ethylhexyl)phthalate-35 ppb, Butyl benzyl phthalate-13 ppb, 2-Methylnaphthalene-46 ppb, Naphthalene-68 ppb, Pyrene-14 ppb.
SBB-W	3/31/99	5,100	NA	3,300	8.8	15	25	24	<25	<2.00	
SBC-W	3/31/99	2,500	NA	890	1.3	25	5.8	19	8.5	<2.00	
Groundwater Monitoring Results											
MW-1	5/13/03	260a	<500	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	Cadmium-ND<2.0ppb, Chromium-32 ppb, Lead-14 ppb, Nickel-48 ppb, Zinc-22 ppb. TBA, DIPE, ETBE, TAME, 1,2-DCA, EDB, Ethanol, Methanol ND by Method 8260. All VOCs including HVOCs ND except tetrachloroethene-43 ppb, and trichloroethene-0.75 ppb. All SVOCs ND.
MW-2	5/13/03	190	NA	120a	<0.50	<0.50	1.3	5.2	NA	<0.50	
MW-3	5/13/03	6,100a	NA	160a	<0.50	<0.50	<0.50	<1.0	NA	<0.50	

Table 1. Groundwater Analytical Data - Shell-branded Service Station Incident #97109122 - 2001 Fruitvale Avenue, Oakland, California

Sample	Date	TPPH	TRPH	TEPH	B	T	E	X	MTBE by 8020	MTBE by 8260A	Additional Analytes		
		←			(Concentrations in ppb)							→	
Sampled													

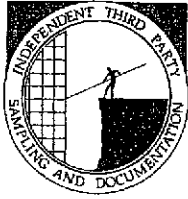
Abbreviations and Notes:

- NA = Not analyzed.
- <x = Not detected at method detection limit of x.
- TPPH = Total purgeable petroleum hydrocarbons carbon range C6 to C12 by EPA Method 8015 (Modified).
- TPPH = Total extractable petroleum hydrocarbons by EPA Method 8015 (Modified).
- TPPH = Total recoverable petroleum hydrocarbons by EPA Method 418.1.
- BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020.
- MTBE = Methyl tertiary butyl ether
- TBA = tertiary butanol
- DIPE = di isopropyl ether
- ETBE = ethyl tert butyl ether
- TAME = tert amyl methyl ether
- 1,2-DCA = 1,2-dichloroethane
- EDB = ethylene dibromide
- VOCs = volatile organic compounds
- HVOCs = Halogenated volatile organic compounds
- SVOCs = Semivolatile organic compounds
- a = Hydrocarbon does not match pattern of laboratory's standard

G:\Oakland 2001 Fruitvale\Qm\2q03\{Table 1.xls}Well Concentrations

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

June 20, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Second Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Monitoring performed on May 1 and 13, 2003

Groundwater Monitoring Report **030513-RH-2**

This report covers the routine monitoring of groundwater wells at this former Shell 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/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	05/01/2003	NA	NA	NA	NA	NA	NA	NA	74.37	18.82	55.55
MW-1	05/13/2003	260 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	18.99	55.38
MW-2	05/01/2003	NA	NA	NA	NA	NA	NA	NA	74.25	18.48	55.77
MW-2	05/13/2003	190	120 a	<0.50	<0.50	1.3	5.2	<0.50	74.25	18.71	55.54
MW-3	05/01/2003	NA	NA	NA	NA	NA	NA	NA	73.63	18.00	55.63
MW-3	05/13/2003	6,100 a	160 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	18.12	55.51

Abbreviations:

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

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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

MTBE = Methyl-tertiary-butyl ether

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 = Hydrocarbon does not match pattern of laboratory's standard.

Site surveyed May 29, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

June 20, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 030513-RH2
Project: 97109122
Site: 2001 Fruitvale Ave Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 05/13/2003 15:05
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
06/27/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

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

Sincerely,



Tod Granicher
Project Manager

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:05	Water	1
MW-2	05/13/2003 09:29	Water	2
MW-3	05/13/2003 09:47	Water	3

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

05/23/2003 15:58

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/22/2003 22:27
Matrix:	Water	QC Batch#:	2003/05/22-2a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	260	50	ug/L	1.00	05/22/2003 22:27	g
Benzene	ND	0.50	ug/L	1.00	05/22/2003 22:27	
Toluene	ND	0.50	ug/L	1.00	05/22/2003 22:27	
Ethylbenzene	ND	0.50	ug/L	1.00	05/22/2003 22:27	
Total xylenes	ND	1.0	ug/L	1.00	05/22/2003 22:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/22/2003 22:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/22/2003 22:27	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	05/22/2003 22:27	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	05/22/2003 22:27	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	05/22/2003 22:27	
1,2-DCA	ND	0.50	ug/L	1.00	05/22/2003 22:27	
EDB	ND	0.50	ug/L	1.00	05/22/2003 22:27	
Ethanol	ND	50	ug/L	1.00	05/22/2003 22:27	
Surrogates(s)						
1,2-Dichloroethane-d4	104.8	76-130	%	1.00	05/22/2003 22:27	
Toluene-d8	100.5	78-115	%	1.00	05/22/2003 22:27	

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

05/23/2003 15:58

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: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2003-05-0358 - 2
Sampled: 05/13/2003 09:29	Extracted: 5/22/2003 23:34
Matrix: Water	QC Batch#: 2003/05/22-2a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	190	50	ug/L	1.00	05/22/2003 23:34	
Benzene	ND	0.50	ug/L	1.00	05/22/2003 23:34	
Toluene	ND	0.50	ug/L	1.00	05/22/2003 23:34	
Ethylbenzene	1.3	0.50	ug/L	1.00	05/22/2003 23:34	
Total xylenes	5.2	1.0	ug/L	1.00	05/22/2003 23:34	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/22/2003 23:34	
Surrogates(s)						
1,2-Dichloroethane-d4	101.3	76-130	%	1.00	05/22/2003 23:34	
Toluene-d8	98.0	78-115	%	1.00	05/22/2003 23:34	

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-05-0358 - 3
Sampled:	05/13/2003 09:47	Extracted:	5/22/2003 23:56
Matrix:	Water	QC Batch#:	2003/05/22-2a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6100	50	ug/L	1.00	05/22/2003 23:56	g
Benzene	ND	0.50	ug/L	1.00	05/22/2003 23:56	
Toluene	ND	0.50	ug/L	1.00	05/22/2003 23:56	
Ethylbenzene	ND	0.50	ug/L	1.00	05/22/2003 23:56	
Total xylenes	ND	1.0	ug/L	1.00	05/22/2003 23:56	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/22/2003 23:56	
Surrogates(s)						
1,2-Dichloroethane-d4	100.5	76-130	%	1.00	05/22/2003 23:56	
Toluene-d8	102.9	78-115	%	1.00	05/22/2003 23:56	

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

05/23/2003 15:58

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report		
Prep(s): 5030B		Test(s) 8260FAB
Method Blank	Water	QC Batch # 2003/05/22-2a.65
MB: 2003/05/22-2a.65-056		Date Extracted: 05/22/2003 20:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/22/2003 20:59	
Benzene	ND	0.5	ug/L	05/22/2003 20:59	
Toluene	ND	0.5	ug/L	05/22/2003 20:59	
Ethylbenzene	ND	0.5	ug/L	05/22/2003 20:59	
Total xylenes	ND	1.0	ug/L	05/22/2003 20:59	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/22/2003 20:59	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/22/2003 20:59	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	05/22/2003 20:59	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	05/22/2003 20:59	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	05/22/2003 20:59	
1,2-DCA	ND	0.5	ug/L	05/22/2003 20:59	
EDB	ND	0.5	ug/L	05/22/2003 20:59	
Ethanol	ND	50	ug/L	05/22/2003 20:59	
Surrogates(s)					
1,2-Dichloroethane-d4	106.4	76-130	%	05/22/2003 20:59	
Toluene-d8	100.2	78-115	%	05/22/2003 20:59	

Severn Trent Laboratories, Inc.

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

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05/23/2003 15:58

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/05/22-2a.65			
LCS	2003/05/22-2a.65-055			Extracted: 05/22/2003			Analyzed: 05/22/2003 20:14			
LCSD	2003/05/22-2a.65-002			Extracted: 05/22/2003			Analyzed: 05/22/2003 20:37			
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.5	24.7	25	102.0	98.8	3.2	69-129	20		
Toluene	24.8	23.7	25	99.2	94.8	4.5	70-130	20		
Methyl tert-butyl ether (MTBE)	34.7	34.3	25	138.8	137.2	1.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	513	495	500	102.6	99.0		76-130			
Toluene-d8	502	488	500	100.4	97.6		78-115			

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05/23/2003 15:58

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: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Matrix Spike (MS / MSD)	Water		QC Batch # 2003/05/22-2a.65
MW-1 >> MS			Lab ID: 2003-05-0358 - 001
MS: 2003/05/22-2a.65-053	Extracted: 05/22/2003	Analyzed: 05/22/2003 22:49	Dilution: 1.00
MSD: 2003/05/22-2a.65-054	Extracted: 05/22/2003	Analyzed: 05/22/2003 23:12	Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	26.6	25.8	ND	25	106.4	103.2	3.1	69-129	20		
Toluene	25.4	24.8	ND	25	101.6	99.2	2.4	70-130	20		
Methyl tert-butyl ether	36.1	35.7	ND	25	144.4	142.8	1.1	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	522	515		500	104.3	103.0		76-130			
Toluene-d8	499	487		500	99.7	97.5		78-115			

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	05/13/2003 09:29	Water	2
MW-3	05/13/2003 09:47	Water	3

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05/28/2003 14:22

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-2	Lab ID:	2003-05-0358-2
Sampled:	05/13/2003 09:29	Extracted:	5/16/2003 05:49
Matrix:	Water	QC Batch#:	2003/05/16-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	120	50	ug/L	1.00	05/18/2003 11:06	ndp
<i>Surrogates(s)</i>						
o-Terphenyl	94.2	60-130	%	1.00	05/18/2003 11:06	

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-3	Lab ID: 2003-05-0358-3
Sampled: 05/13/2003 09:47	Extracted: 5/16/2003 05:49
Matrix: Water	QC Batch#: 2003/05/16-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	160	50	ug/L	1.00	05/18/2003 11:44	ndp
Surrogates(s)						
o-Terphenyl	94.2	60-130	%	1.00	05/18/2003 11:44	

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Diesel (C10-C24) by 8015m

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: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 3510/8015M		Water		Test(s): 8015M	
Method Blank				QC Batch # 2003/05/16-01.10	
MB: 2003/05/16-01.10-001				Date Extracted: 05/16/2003 05:49	
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	05/16/2003 12:32	
Surrogates(s) o-Terphenyl	100.4	60-130	%	05/16/2003 12:32	

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report										
Prep(s): 3510/8015M					Test(s): 8015M					
Laboratory Control Spike			Water			QC Batch # 2003/05/16-01-10				
LCS	2003/05/16-01-10-002		Extracted: 05/16/2003			Analyzed: 05/16/2003 11:17				
LCSD	2003/05/16-01-10-003		Extracted: 05/16/2003			Analyzed: 05/16/2003 11:54				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	867	985	1000	86.7	98.5	12.7	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	21.8	22.9	20.0	109.2	114.6		60-130	0		

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

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Project: 030513-RH2

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Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Total Extractable Petroleum Hydrocarbons (TEPH) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:05	Water	1

Total Extractable Petroleum Hydrocarbons (TEPH) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/16/2003 05:49
Matrix:	Water	QC Batch#:	2003/05/16-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/18/2003 10:29	
Motor Oil	ND	500	ug/L	1.00	05/18/2003 10:29	
Surrogates(s)						
o-Terphenyl	106.2	60-130	%	1.00	05/18/2003 10:29	

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05/28/2003 14:21

Total Extractable Petroleum Hydrocarbons (TEPH) by 8015m

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 3510/8015M				Test(s): 8015M	
Method Blank		Water		QC Batch # 2003/05/16-01.10	
MB: 2003/05/16-01.10-001				Date Extracted: 05/16/2003 05:49	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	05/16/2003 12:32	
Motor Oil	ND	500	ug/L	05/16/2003 12:32	
Surrogates(s)					
o-Terphenyl	100.4	60-130	%	05/16/2003 12:32	

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05/28/2003 14:21

Total Extractable Petroleum Hydrocarbons (TEPH) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report			
Prep(s): 3510/8015M		Test(s): 8015M	
Laboratory Control Spike		Water	QC Batch # 2003/05/16-01.10
LCS	2003/05/16-01.10-002	Extracted: 05/16/2003	Analyzed: 05/16/2003 11:17
LCSD	2003/05/16-01.10-003	Extracted: 05/16/2003	Analyzed: 05/16/2003 11:54

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	867	985	1000	86.7	98.5	12.7	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	21.8	22.9	20.0	109.2	114.6		60-130	0		

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05/28/2003 14:21

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: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:05	Water	1

Severn Trent Laboratories, Inc.

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05/27/2003 16:36

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: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	8015M Alcohols	Test(s):	8015Mod
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/27/2003 14:30
Matrix:	Water	QC Batch#:	2003/05/27-01.20

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methanol	ND	0.50	mg/L	1.00	05/27/2003 15:27	
<i>Surrogates(s)</i>						
tert-Butyl alcohol	98.1	60-130	%	1.00	05/27/2003 15:27	

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05/27/2003 16:36

Alcohols by GC-FID

Blaine Tech Services, Inc.

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 8015M Alcohols				Test(s): 8015Mod	
Method Blank		Water		QC Batch # 2003/05/27-01.20	
MB: 2003/05/27-01.20-002				Date Extracted: 05/27/2003 14:30	

Compound	Conc.	RL	Unit	Analyzed	Flag
Methanol	ND	0.50	mg/L	05/27/2003 14:50	
<i>Surrogates(s)</i> tert-Butyl alcohol	114.2	60-130	%	05/27/2003 14:50	

Alcohols by GC-FID

Blaine Tech Services, Inc.

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report			
Prep(s): 8015M Alcohols		Test(s): 8015Mod	
Laboratory Control Spike		Water	QC Batch # 2003/05/27-01.20
LCS	2003/05/27-01 20-003	Extracted: 05/27/2003	Analyzed: 05/27/2003 15:03
LCSD	2003/05/27-01 20-004	Extracted: 05/27/2003	Analyzed: 05/27/2003 15:14

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methanol	38.1	41.1	50.0	76.2	82.2	7.6	60-130	25		
Surrogates(s) tert-Butyl alcohol	51.7	51.6	50	103.4	103.2		60-130	0		

Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:05	Water	1

Severn Trent Laboratories, Inc.

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05/27/2003 17:10

Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/23/2003 15:13
Matrix:	Water	QC Batch#:	2003/05/23-01-60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	05/23/2003 15:13	
Acetone	ND	50	ug/L	1.00	05/23/2003 15:13	
Benzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Bromodichloromethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Bromobenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Bromochloromethane	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Bromoform	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Bromomethane	ND	1.0	ug/L	1.00	05/23/2003 15:13	
2-Butanone(MEK)	ND	50	ug/L	1.00	05/23/2003 15:13	
n-Butylbenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
sec-Butylbenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
tert-Butylbenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Carbon disulfide	ND	5.0	ug/L	1.00	05/23/2003 15:13	
Carbon tetrachloride	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Chlorobenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Chloroethane	ND	1.0	ug/L	1.00	05/23/2003 15:13	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	05/23/2003 15:13	
Chloroform	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Chloromethane	ND	1.0	ug/L	1.00	05/23/2003 15:13	
2-Chlorotoluene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
4-Chlorotoluene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Dibromochloromethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	05/23/2003 15:13	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	05/23/2003 15:13	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	

Severn Trent Laboratories, Inc.

05/27/2003 17:10

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Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-1	Lab ID: 2003-05-0358 - 1
Sampled: 05/13/2003 10:05	Extracted: 5/23/2003 15:13
Matrix: Water	QC Batch#: 2003/05/23-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Ethylbenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
2-Hexanone	ND	50	ug/L	1.00	05/23/2003 15:13	
Isopropylbenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Methylene chloride	ND	5.0	ug/L	1.00	05/23/2003 15:13	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	05/23/2003 15:13	
Naphthalene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
n-Propylbenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Styrene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Tetrachloroethene	43	0.50	ug/L	1.00	05/23/2003 15:13	
Toluene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	05/23/2003 15:13	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Trichloroethene	0.75	0.50	ug/L	1.00	05/23/2003 15:13	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	05/23/2003 15:13	

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05/27/2003 17:10

Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/23/2003 15:13
Matrix:	Water	QC Batch#:	2003/05/23-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Vinyl acetate	ND	25	ug/L	1.00	05/23/2003 15:13	
Vinyl chloride	ND	0.50	ug/L	1.00	05/23/2003 15:13	
Total xylenes	ND	1.0	ug/L	1.00	05/23/2003 15:13	
Surrogates(s)						
4-Bromofluorobenzene	87.2	86-115	%	1.00	05/23/2003 15:13	
1,2-Dichloroethane-d4	101.0	76-114	%	1.00	05/23/2003 15:13	
Toluene-d8	96.1	88-110	%	1.00	05/23/2003 15:13	

Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

 Project: 030513-RH2
 97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2003/05/23-01.60
MB: 2003/05/23-01.60-057			Date Extracted: 05/23/2003 12:57

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	05/23/2003 12:57	
Acetone	ND	50	ug/L	05/23/2003 12:57	
Benzene	ND	0.5	ug/L	05/23/2003 12:57	
Bromodichloromethane	ND	0.5	ug/L	05/23/2003 12:57	
Bromobenzene	ND	1.0	ug/L	05/23/2003 12:57	
Bromochloromethane	ND	1.0	ug/L	05/23/2003 12:57	
Bromoform	ND	0.5	ug/L	05/23/2003 12:57	
Bromomethane	ND	1.0	ug/L	05/23/2003 12:57	
2-Butanone(MEK)	ND	50	ug/L	05/23/2003 12:57	
n-Butylbenzene	ND	1.0	ug/L	05/23/2003 12:57	
sec-Butylbenzene	ND	1.0	ug/L	05/23/2003 12:57	
tert-Butylbenzene	ND	1.0	ug/L	05/23/2003 12:57	
Carbon disulfide	ND	5.0	ug/L	05/23/2003 12:57	
Carbon tetrachloride	ND	0.5	ug/L	05/23/2003 12:57	
Chlorobenzene	ND	0.5	ug/L	05/23/2003 12:57	
Chloroethane	ND	1.0	ug/L	05/23/2003 12:57	
2-Chloroethylvinyl ether	ND	5.0	ug/L	05/23/2003 12:57	
Chloroform	ND	1.0	ug/L	05/23/2003 12:57	
Chloromethane	ND	1.0	ug/L	05/23/2003 12:57	
2-Chlorotoluene	ND	0.5	ug/L	05/23/2003 12:57	
4-Chlorotoluene	ND	0.5	ug/L	05/23/2003 12:57	
Dibromochloromethane	ND	0.5	ug/L	05/23/2003 12:57	
1,2-Dichlorobenzene	ND	0.5	ug/L	05/23/2003 12:57	
1,3-Dichlorobenzene	ND	0.5	ug/L	05/23/2003 12:57	
1,4-Dichlorobenzene	ND	0.5	ug/L	05/23/2003 12:57	
1,3-Dichloropropane	ND	1.0	ug/L	05/23/2003 12:57	
2,2-Dichloropropane	ND	0.5	ug/L	05/23/2003 12:57	
1,1-Dichloropropene	ND	0.5	ug/L	05/23/2003 12:57	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/23/2003 12:57	

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05/27/2003 17:10

Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
MB: 2003/05/23-01.60-057			QC Batch # 2003/05/23-01.60		
			Date Extracted: 05/23/2003 12:57		
Compound	Conc.	RL	Unit	Analyzed	Flag
1,2-Dibromoethane	ND	0.5	ug/L	05/23/2003 12:57	
Dibromomethane	ND	0.5	ug/L	05/23/2003 12:57	
Dichlorodifluoromethane	ND	0.5	ug/L	05/23/2003 12:57	
1,1-Dichloroethane	ND	0.5	ug/L	05/23/2003 12:57	
1,2-Dichloroethane	ND	0.5	ug/L	05/23/2003 12:57	
1,1-Dichloroethene	ND	0.5	ug/L	05/23/2003 12:57	
cis-1,2-Dichloroethene	ND	0.5	ug/L	05/23/2003 12:57	
trans-1,2-Dichloroethene	ND	0.5	ug/L	05/23/2003 12:57	
1,2-Dichloropropane	ND	0.5	ug/L	05/23/2003 12:57	
cis-1,3-Dichloropropene	ND	0.5	ug/L	05/23/2003 12:57	
trans-1,3-Dichloropropene	ND	0.5	ug/L	05/23/2003 12:57	
Ethylbenzene	ND	0.5	ug/L	05/23/2003 12:57	
Hexachlorobutadiene	ND	1.0	ug/L	05/23/2003 12:57	
2-Hexanone	ND	50	ug/L	05/23/2003 12:57	
Isopropylbenzene	ND	0.5	ug/L	05/23/2003 12:57	
p-Isopropyltoluene	ND	1.0	ug/L	05/23/2003 12:57	
Methylene chloride	ND	5.0	ug/L	05/23/2003 12:57	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	05/23/2003 12:57	
Naphthalene	ND	1.0	ug/L	05/23/2003 12:57	
n-Propylbenzene	ND	1.0	ug/L	05/23/2003 12:57	
Styrene	ND	0.5	ug/L	05/23/2003 12:57	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	05/23/2003 12:57	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	05/23/2003 12:57	
Tetrachloroethene	ND	0.5	ug/L	05/23/2003 12:57	
Toluene	ND	0.5	ug/L	05/23/2003 12:57	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/23/2003 12:57	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/23/2003 12:57	
1,1,1-Trichloroethane	ND	0.5	ug/L	05/23/2003 12:57	
1,1,2-Trichloroethane	ND	0.5	ug/L	05/23/2003 12:57	

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Volatile Organic Compounds by 8260B (Low Level)

Blaine Tech Services, Inc.

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Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260B	
Method Blank				QC Batch # 2003/05/23-01.60	
MB: 2003/05/23-01.60-057				Date Extracted: 05/23/2003 12:57	
Compound	Conc.	RL	Unit	Analyzed	Flag
Trichloroethene	ND	0.5	ug/L	05/23/2003 12:57	
Trichlorofluoromethane	ND	1.0	ug/L	05/23/2003 12:57	
Trichlorotrifluoroethane	ND	0.5	ug/L	05/23/2003 12:57	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	05/23/2003 12:57	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	05/23/2003 12:57	
Vinyl acetate	ND	25	ug/L	05/23/2003 12:57	
Vinyl chloride	ND	0.5	ug/L	05/23/2003 12:57	
Total xylenes	ND	1.0	ug/L	05/23/2003 12:57	
Surrogates(s)					
4-Bromofluorobenzene	86.3	86-115	%	05/23/2003 12:57	
1,2-Dichloroethane-d4	102.7	76-114	%	05/23/2003 12:57	
Toluene-d8	99.0	88-110	%	05/23/2003 12:57	

Volatile Organic Compounds by 8260B (Low Level)

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Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2003/05/23-01.60
LCS	2003/05/23-01.60-050	Extracted: 05/23/2003	Analyzed: 05/23/2003 11:50
LCSD	2003/05/23-01.60-024	Extracted: 05/23/2003	Analyzed: 05/23/2003 12:24

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.1	19.9	20.0	100.5	99.5	1.0	69-129	20		
Chlorobenzene	21.0	20.6	20.0	105.0	103.0	1.9	61-121	20		
1,1-Dichloroethene	22.1	20.7	20.0	110.5	103.5	6.5	65-125	20		
Toluene	19.3	19.8	20.0	96.5	99.0	2.6	70-130	20		
Trichloroethene	19.1	18.7	20.0	95.5	93.5	2.1	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	491	461	500	98.2	92.2		86-115			
1,2-Dichloroethane-d4	534	491	500	106.8	98.2		76-114			
Toluene-d8	499	505	500	99.8	101.0		88-110			

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05/27/2003 17:10

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:05	Water	1

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05/28/2003 14:26

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

 Project: 030513-RH2
 97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/15/2003 15:18
Matrix:	Water	QC Batch#:	2003/05/15-02.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2-Chlorophenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Benzyl alcohol	ND	5.0	ug/L	1.00	05/17/2003 13:39	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2-Methylphenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	05/17/2003 13:39	
4-Methylphenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Hexachloroethane	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Nitrobenzene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Isophorone	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2-Nitrophenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	05/17/2003 13:39	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Naphthalene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
4-Chloroaniline	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	05/17/2003 13:39	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1.00	05/17/2003 13:39	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2-Nitroaniline	ND	10	ug/L	1.00	05/17/2003 13:39	
Dimethyl phthalate	ND	5.0	ug/L	1.00	05/17/2003 13:39	

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05/28/2003 14:26

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

 Project: 030513-RH2
 97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/15/2003 15:18
Matrix:	Water	QC Batch#:	2003/05/15-02.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acenaphthylene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
3-Nitroaniline	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Acenaphthene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2,4-Dinitrophenol	ND	10	ug/L	1.00	05/17/2003 13:39	
4-Nitrophenol	ND	10	ug/L	1.00	05/17/2003 13:39	
Dibenzofuran	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	05/17/2003 13:39	
Diethyl phthalate	ND	5.0	ug/L	1.00	05/17/2003 13:39	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	1.00	05/17/2003 13:39	
Fluorene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
4-Nitroaniline	ND	10	ug/L	1.00	05/17/2003 13:39	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	05/17/2003 13:39	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	05/17/2003 13:39	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	05/17/2003 13:39	
Hexachlorobenzene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Pentachlorophenol	ND	10	ug/L	1.00	05/17/2003 13:39	
Phenanthrene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Anthracene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	05/17/2003 13:39	
Fluoranthene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Pyrene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	05/17/2003 13:39	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	05/17/2003 13:39	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.00	05/17/2003 13:39	
Chrysene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	05/17/2003 13:39	
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	05/17/2003 13:39	

Severn Trent Laboratories, Inc.

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05/28/2003 14:26

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s): 3510C/8270C	Test(s): 8270C
Sample ID: MW-1	Lab ID: 2003-05-0358 - 1
Sampled: 05/13/2003 10:05	Extracted: 5/15/2003 15:18
Matrix: Water	QC Batch#: 2003/05/15-02.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzo(a)pyrene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	05/17/2003 13:39	
Benzoic acid	ND	10	ug/L	1.00	05/17/2003 13:39	
Surrogates(s)						
Nitrobenzene-d5	54.0	35-114	%	1.00	05/17/2003 13:39	
2-Fluorobiphenyl	56.2	43-116	%	1.00	05/17/2003 13:39	
p-Terphenyl-d14	82.5	33-141	%	1.00	05/17/2003 13:39	
2-Fluorophenol	24.0	25-100	%	1.00	05/17/2003 13:39	sl
Phenol-d6	24.0	10-110	%	1.00	05/17/2003 13:39	
2,4,6-Tribromophenol	25.9	10-123	%	1.00	05/17/2003 13:39	

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Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report		
Prep(s): 3510C/8270C		Test(s): 8270C
Method Blank	Water	QC Batch # 2003/05/15-02.11
MB: 2003/05/15-02.11-001		Date Extracted: 05/15/2003 15:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	2.0	ug/L	05/16/2003 11:49	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	05/16/2003 11:49	
2-Chlorophenol	ND	2.0	ug/L	05/16/2003 11:49	
1,3-Dichlorobenzene	ND	2.0	ug/L	05/16/2003 11:49	
1,4-Dichlorobenzene	ND	2.0	ug/L	05/16/2003 11:49	
Benzyl alcohol	ND	5.0	ug/L	05/16/2003 11:49	
1,2-Dichlorobenzene	ND	2.0	ug/L	05/16/2003 11:49	
2-Methylphenol	ND	2.0	ug/L	05/16/2003 11:49	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	05/16/2003 11:49	
4-Methylphenol	ND	2.0	ug/L	05/16/2003 11:49	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	05/16/2003 11:49	
Hexachloroethane	ND	2.0	ug/L	05/16/2003 11:49	
Nitrobenzene	ND	2.0	ug/L	05/16/2003 11:49	
Isophorone	ND	2.0	ug/L	05/16/2003 11:49	
2-Nitrophenol	ND	2.0	ug/L	05/16/2003 11:49	
2,4-Dimethylphenol	ND	2.0	ug/L	05/16/2003 11:49	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	05/16/2003 11:49	
2,4-Dichlorophenol	ND	2.0	ug/L	05/16/2003 11:49	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	05/16/2003 11:49	
Naphthalene	ND	2.0	ug/L	05/16/2003 11:49	
4-Chloroaniline	ND	2.0	ug/L	05/16/2003 11:49	
Hexachlorobutadiene	ND	2.0	ug/L	05/16/2003 11:49	
4-Chloro-3-methylphenol	ND	5.0	ug/L	05/16/2003 11:49	
2-Methylnaphthalene	ND	2.0	ug/L	05/16/2003 11:49	
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/16/2003 11:49	
2,4,6-Trichlorophenol	ND	2.0	ug/L	05/16/2003 11:49	
2,4,5-Trichlorophenol	ND	2.0	ug/L	05/16/2003 11:49	
2-Chloronaphthalene	ND	2.0	ug/L	05/16/2003 11:49	
2-Nitroaniline	ND	10	ug/L	05/16/2003 11:49	

Sewern Trent Laboratories, Inc.

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05/28/2003 14:26

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 3510C/8270C			Test(s): 8270C		
Method Blank		Water		QC Batch # 2003/05/15-02.11	
MB: 2003/05/15-02.11-001			Date Extracted: 05/15/2003 15:18		
Compound	Conc.	RL	Unit	Analyzed	Flag
Dimethyl phthalate	ND	5.0	ug/L	05/16/2003 11:49	
Acenaphthylene	ND	2.0	ug/L	05/16/2003 11:49	
3-Nitroaniline	ND	2.0	ug/L	05/16/2003 11:49	
Acenaphthene	ND	2.0	ug/L	05/16/2003 11:49	
2,4-Dinitrophenol	ND	10	ug/L	05/16/2003 11:49	
4-Nitrophenol	ND	10	ug/L	05/16/2003 11:49	
Dibenzofuran	ND	2.0	ug/L	05/16/2003 11:49	
2,4-Dinitrotoluene	ND	2.0	ug/L	05/16/2003 11:49	
2,6-Dinitrotoluene	ND	5.0	ug/L	05/16/2003 11:49	
Diethyl phthalate	ND	5.0	ug/L	05/16/2003 11:49	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/16/2003 11:49	
Fluorene	ND	2.0	ug/L	05/16/2003 11:49	
4-Nitroaniline	ND	10	ug/L	05/16/2003 11:49	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	05/16/2003 11:49	
N-Nitrosodiphenylamine	ND	2.0	ug/L	05/16/2003 11:49	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/16/2003 11:49	
Hexachlorobenzene	ND	2.0	ug/L	05/16/2003 11:49	
Pentachlorophenol	ND	10	ug/L	05/16/2003 11:49	
Phenanthrene	ND	2.0	ug/L	05/16/2003 11:49	
Anthracene	ND	2.0	ug/L	05/16/2003 11:49	
Di-n-butyl phthalate	ND	5.0	ug/L	05/16/2003 11:49	
Fluoranthene	ND	2.0	ug/L	05/16/2003 11:49	
Pyrene	ND	2.0	ug/L	05/16/2003 11:49	
Butyl benzyl phthalate	ND	5.0	ug/L	05/16/2003 11:49	
3,3-Dichlorobenzidine	ND	5.0	ug/L	05/16/2003 11:49	
Benzo(a)anthracene	ND	2.0	ug/L	05/16/2003 11:49	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	05/16/2003 11:49	
Chrysene	ND	2.0	ug/L	05/16/2003 11:49	
Di-n-octyl phthalate	ND	5.0	ug/L	05/16/2003 11:49	

Severn Trent Laboratories, Inc.

05/28/2003 14:26

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Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report		
Prep(s): 3510C/8270C		Test(s): 8270C
Method Blank	Water	QC Batch # 2003/05/15-02.11
MB: 2003/05/15-02.11-001		Date Extracted: 05/15/2003 15:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzo(b)fluoranthene	ND	2.0	ug/L	05/16/2003 11:49	
Benzo(k)fluoranthene	ND	2.0	ug/L	05/16/2003 11:49	
Benzo(a)pyrene	ND	2.0	ug/L	05/16/2003 11:49	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	05/16/2003 11:49	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	05/16/2003 11:49	
Benzo(g,h,i)perylene	ND	2.0	ug/L	05/16/2003 11:49	
Benzoic acid	ND	10	ug/L	05/16/2003 11:49	
Surrogates(s)					
Nitrobenzene-d5	79.1	35-114	%	05/16/2003 11:49	
2-Fluorobiphenyl	74.9	43-116	%	05/16/2003 11:49	
p-Terphenyl-d14	101.5	33-141	%	05/16/2003 11:49	
2-Fluorophenol	52.6	25-100	%	05/16/2003 11:49	
Phenol-d6	43.1	10-110	%	05/16/2003 11:49	
2,4,6-Tribromophenol	97.9	10-123	%	05/16/2003 11:49	

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report										
Prep(s): 3510C/8270C						Test(s): 8270C				
Laboratory Control Spike			Water			QC Batch # 2003/05/15-02.11				
LCS	2003/05/15-02.11-002		Extracted: 05/15/2003			Analyzed: 05/16/2003.12:18				
LCSD	2003/05/15-02.11-003		Extracted: 05/15/2003			Analyzed: 05/16/2003.12:46				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Phenol	17.2	16.6	60.0	28.7	27.7	3.5	12-89	35		
2-Chlorophenol	40.4	42.8	60.0	67.3	71.3	5.8	23-134	25		
1,4-Dichlorobenzene	19.1	18.9	30.0	63.7	63.0	1.1	36-97	30		
N-Nitroso-di-n-propylamine	22.7	20.6	30.0	75.7	68.7	9.7	10-130	34		
1,2,4-Trichlorobenzene	19.8	18.3	30.0	66.0	61.0	7.9	44-142	35		
4-Chloro-3-methylphenol	44.3	42.2	60.0	73.8	70.3	4.9	22-147	31		
Acenaphthene	25.0	19.4	30.0	83.3	64.7	25.1	56-118	30		
4-Nitrophenol	21.6	18.4	60.0	36.0	30.7	15.9	1-132	35		
2,4-Dinitrotoluene	27.7	23.4	30.0	92.3	78.0	16.8	39-139	35		
Pentachlorophenol	43.7	38.9	60.0	72.8	64.8	11.6	45-125	35		
Pyrene	23.8	20.7	30.0	79.3	69.0	13.9	52-115	35		
Surrogates(s)										
Nitrobenzene-d5	21.9	19.5	25	87.6	78.0		35-114			
2-Fluorobiphenyl	21.9	21.4	25	87.6	85.6		43-116			
p-Terphenyl-d14	23.4	22.2	25	93.6	88.8		33-141			
2-Fluorophenol	27.3	27.3	50	54.6	54.6		25-100			
Phenol-d6	21.4	21.5	50	42.8	43.0		10-110			
2,4,6-Tribromophenol	44.8	46.9	50	89.6	93.8		10-123			

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05/28/2003 14:26

Semi-volatile analysis by GC/MS - EPA8270C

Blaine Tech Services, Inc.

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Legend and Notes

Result Flag

sl

Surrogate recoveries were lower than QC limit due to matrix interference,
confirmed by reanalysis.

LUFT 5 Metals

Blaine Tech Services, Inc.

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/13/2003 10:05	Water	1

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05/28/2003 11:41

LUFT 5 Metals

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2

97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Prep(s):	3010A	Test(s):	6010B
Sample ID:	MW-1	Lab ID:	2003-05-0358 - 1
Sampled:	05/13/2003 10:05	Extracted:	5/15/2003 16:31
Matrix:	Water	QC Batch#:	2003/05/15-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	1.00	05/16/2003 15:05	
Chromium	0.032	0.0050	mg/L	1.00	05/16/2003 15:05	
Lead	0.014	0.0050	mg/L	1.00	05/16/2003 15:05	
Nickel	0.048	0.0050	mg/L	1.00	05/16/2003 15:05	
Zinc	0.022	0.010	mg/L	1.00	05/16/2003 15:05	

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05/28/2003 11:41

LUFT 5 Metals

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report					
Prep(s): 3010A		Water		Test(s): 6010B	
Method Blank				QC Batch # 2003/05/15-05:15	
MB: 2003/05/15-05:15-075				Date Extracted: 05/15/2003 16:31	
Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	05/16/2003 14:53	
Chromium	ND	0.0050	mg/L	05/16/2003 14:53	
Lead	ND	0.0050	mg/L	05/16/2003 14:53	
Nickel	ND	0.0050	mg/L	05/16/2003 14:53	
Zinc	ND	0.010	mg/L	05/16/2003 14:53	

Severn Trent Laboratories, Inc.

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05/28/2003 11:41

LUFT 5 Metals

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030513-RH2
97109122

Received: 05/13/2003 15:05

Site: 2001 Fruitvale Ave Oakland

Batch QC Report									
Prep(s): 3010A					Test(s): 6010B				
Laboratory Control Spike			Water			QC Batch # 2003/05/15-05-15			
LCS	2003/05/15-05-15-076		Extracted: 05/15/2003			Analyzed: 05/16/2003 14:58			
LCSD	2003/05/15-05-15-077		Extracted: 05/15/2003			Analyzed: 05/16/2003 15:01			

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Cadmium	0.520	0.516	0.500	104.0	103.2	0.8	80-120	20		
Chromium	0.519	0.517	0.500	103.8	103.4	0.4	80-120	20		
Lead	0.519	0.522	0.500	103.8	104.4	0.6	80-120	20		
Nickel	0.521	0.518	0.500	104.2	103.6	0.6	80-120	20		
Zinc	0.522	0.520	0.500	104.4	104.0	0.4	80-120	20		

LAB: STL

SHELL Chain Of Custody Record

74186

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRM/HOUSTON

Karen Petryna

2003-05-0358

INCIDENT NUMBER (S&E ONLY)

9 7 1 0 9 1 2 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 5/13/03

PAGE: 1 of 1

SAMPLING COMPANY Blaine Tech Services		LAB CODE BTSS	SITE ADDRESS (Street and City) 2001 Fruitvale Ave., Oakland		REGAL ID NO. T0600102236
ADDRESS 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (PERSON/PHONE NUMBER)		PHONE NO. 510-420-3335	QUANTITATIVE PROJECT NO.
PROJECT CONTACT (Name and Title) Leon Gearhart		CONTACT NAME Ann Kraml		EMAIL ShellOaklandEDF@sambria-env.com	
TELEPHONE 408-573-0555	FAX 408-573-7771	E-MAIL lgearhart@blainetech.com		LAB USE ONLY	

Ryan Hamstead

REQUESTED ANALYSIS

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

LA - RWQCH REPORT FORMAT LIST AGENCY

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDG IS NOT NEEDED

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

26°C

TEMPERATURE ON RECEIPT °C

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas Purgeable	BTEX	MTBE (P2-10 - 5ppb RL)	MTEB (2300 - 0.5ppb RL)	Oxygenates (5) by (2300)	Ethanol (2500)	Methanol	1,2-DCA (2300)	EDB (2500)	TPH - Diesel, Extractable (8015m)	TPH - Motor Oil	5000's by 8260	100's by 8260	Organics (7) by 8260	Lead Screenings	Cd, Cr, Pb, Ni, Zn	
		DATE	TIME																			
	mw-1	5/17/03	1005	lwo	19	X	X	X							X	X	X	X	X	X	X	
	mw-2	↓	929	↓	5	X	X	X							X	X	X	X	X	X	X	
	mw-3	↓	947	↓	5	X	X	X							X	X	X	X	X	X	X	

Requested by (Signature) <i>Ryan Hamstead</i>	Received by (Signature) <i>[Signature]</i>	Date: <u>5/17/03</u>	Time: <u>1505</u>
Requested by (Signature) <i>[Signature]</i>	Received by (Signature) <i>[Signature]</i>	Date: <u>5/13/03</u>	Time: <u>1718</u>

DISTRIBUTION: White with final report, Green to File, Yellow and Pink in Charge

10/1500 Revision

C&O Graphic 7/11/03 858-3102

WELL GAUGING DATA

Project # 030513-012 Date 9/13/05 Client Shell

Site 2001 Fruitvale Ave., Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
mw-1	4					18.99	29.65	
mw-2	4					18.71	30.32	
mw-3	4					18.12	29.75	↓

SHELL WELL MONITORING DATA SHEET

BTS #: <u>090513-2H2</u>	Site: <u>2001 Fruitvale Ave., Oakland</u>
Sampler: <u>Ryan H</u>	Date: <u>5/13/03</u>
Well I.D.: <u>m10-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>29.65</u>	Depth to Water (DTW): <u>18.99</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>21.12</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing
 Other: _____

$\frac{7.0 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{21.0 \text{ Gals.}}{\text{Calculated Volume}}$	Well Diameter	Multiplier	Well Diameter	Multiplier
	1"	0.04	4"	0.65
	2"	0.16	6"	1.47
	3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
957	70.7	6.8	474	>200	7.0	cloudy
958	69.5	6.7	472	>200	14.0	"
1000	69.0	6.7	473	153	21.0	turbid

Did well dewater? Yes No Gallons actually evacuated: 21.0

Sampling Date: 5/13/03 Sampling Time: 1005 Depth to Water: 19.35

Sample I.D.: m10-1 Laboratory: STL Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see scope

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd): Pre-purge:		mg/L	Post-purge:		mg/L
O.R.P. (if req'd): Pre-purge:		mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>B305 13-247</u>	Site: <u>2001 Fruitvale Ave., Oakland</u>
Sampler: <u>Pagan H</u>	Date: <u>5/13/03</u>
Well I.D.: <u>mw-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>30.32</u>	Depth to Water (DTW): <u>15.71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>21.03</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

Other: _____

$\frac{7.5 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{22.5 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
921	69.4	6.7	473	131	7.5	70.2nd
922	69.5	6.6	486	167	19.0	"
924	69.8	6.7	497	119	22.5	"

Did well dewater? Yes No Gallons actually evacuated: 22.5

Sampling Date: 5/13/03 Sampling Time: 924 Depth to Water: 20.80

Sample I.D.: mw-2 Laboratory: STL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>EBSES 13-242</u>	Site: <u>2001 Fruitvale Ave, Oakland</u>
Sampler: <u>Ryan H</u>	Date: <u>5/13/03</u>
Well I.D.: <u>mw-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>29.75</u>	Depth to Water (DTW): <u>18.12</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>20.45</u>	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

<u>7.5</u> (Gals.) X	<u>3</u>	=	<u>22.5</u> Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
939	70.4	6.8	461	74	7.5	to bed
941	69.0	6.7	468	118	15.0	"
942	69.4	6.8	467	75	22.5	"

Did well dewater? Yes No Gallons actually evacuated: 22.5

Sampling Date: 5/13/03 Sampling Time: 9:17 Depth to Water: 18.75

Sample I.D.: mw-3 Laboratory: STL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

WELL GAUGING DATA

Project # 030501-MT1 Date 05-01-03 Client 97109122

Site 2001 Fruitvale Ave., Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					18.82	29.62		
MW-2	4					18.48	30.30		
MW-3	4					18.00	29.75	√	

WELL DEVELOPMENT DATA SHEET

Project #: <u>230501-MTI</u>	Client: <u>97109122</u>
Developer: <u>M. Dill</u>	Date Developed: <u>5-1-03</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>29.62</u> After <u>29.75</u>	Depth to Water: Before <u>13.82</u> After <u>24.80</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$	Well dia.	VCF
where	2" =	0.16
12 = in / foot	3" =	0.37
d = diameter (in.)	4" =	0.65
$\pi = 3.1416$	6" =	1.47
231 = in ³ /gal	10" =	4.08
	12" =	6.87

$$\frac{7.0}{1 \text{ Case Volume}} \times \frac{10}{\text{Specified Volumes}} = \frac{70}{\text{gallons}}$$

Pumping Device: Bailer Electric Submersible @3.5 GPM
 Middleburg Suction Pump

Type of Installed Pump _____
 Other equipment used 4" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
						<u>Swabbed well for 15 min</u>
<u>0958</u>	<u>66.1</u>	<u>7.18</u>	<u>573</u>	<u>>1000</u>	<u>7.0</u>	<u>Brown silt, Hand Bottom</u>
<u>0900</u>	<u>66.7</u>	<u>7.10</u>	<u>504</u>	<u>192</u>	<u>14</u>	<u>clearing up, "</u>
<u>0902</u>	<u>66.6</u>	<u>7.09</u>	<u>500</u>	<u>115</u>	<u>21</u>	<u>" "</u>
<u>0904</u>	<u>66.6</u>	<u>7.05</u>	<u>492</u>	<u>57</u>	<u>28</u>	<u>Clear "</u>
<u>0906</u>	<u>66.6</u>	<u>7.01</u>	<u>485</u>	<u>60</u>	<u>35</u>	<u>" "</u>
<u>0908</u>	<u>66.9</u>	<u>7.01</u>	<u>480</u>	<u>47</u>	<u>42</u>	<u>" "</u>
<u>0910</u>	<u>66.8</u>	<u>7.01</u>	<u>482</u>	<u>29</u>	<u>49</u>	<u>" "</u>
<u>0912</u>	<u>66.9</u>	<u>7.01</u>	<u>482</u>	<u>20</u>	<u>56</u>	<u>" "</u>
<u>0914</u>	<u>66.6</u>	<u>7.01</u>	<u>481</u>	<u>25</u>	<u>63</u>	<u>" "</u>
<u>0916</u>	<u>66.6</u>	<u>7.02</u>	<u>480</u>	<u>19</u>	<u>70</u>	<u>" "</u>

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 70

WELL DEVELOPMENT DATA SHEET

Project #: <u>030501-MTI</u>	Client: <u>97109122</u>
Developer: <u>M. Dill</u>	Date Developed: <u>5-1-03</u>
Well I.D. <u>MW-2</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>30.30</u> After <u>30.52</u>	Depth to Water: Before <u>19.48</u> After <u>23.20</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): (12 x (d ² /4) x π) / 231	Well dia.	VCF
where	2" =	0.16
12 = in / foot	3" =	0.37
d = diameter (in.)	4" =	0.65
π = 3.1416	6" =	1.47
231 = in ³ /gal	10" =	4.08
	12" =	6.87

<u>7.7</u>	X	<u>10</u>	=	<u>77</u>
1 Case Volume		Specified Volumes		gallons

Pumping Device: Bailer Electric Submersible @ 2.5 GPM
 Middleburg Suction Pump 3.5

Type of Installed Pump _____
 Other equipment used 4" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or <u>μS</u>)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
	<u>Swabbed</u>	<u>well for</u>	<u>15 min</u>		—	
<u>0802</u>	<u>68.1</u>	<u>6.42</u>	<u>568</u>	<u>>1000</u>	<u>7.7</u>	<u>Brown silt, Hard Bottom</u>
<u>0804</u>	<u>67.7</u>	<u>6.93</u>	<u>497</u>	<u>426</u>	<u>15.4</u>	<u>clearing up</u> " "
<u>0806</u>	<u>68.1</u>	<u>6.88</u>	<u>487</u>	<u>100</u>	<u>23.1</u>	" "
<u>0808</u>	<u>68.2</u>	<u>6.83</u>	<u>469</u>	<u>79</u>	<u>30.8</u>	" "
<u>0810</u>	<u>67.9</u>	<u>6.90</u>	<u>490</u>	<u>30</u>	<u>38.5</u>	<u>clear</u> " "
<u>0812</u>	<u>67.5</u>	<u>6.94</u>	<u>495</u>	<u>17</u>	<u>46.2</u>	" "
<u>0814</u>	<u>66.9</u>	<u>7.05</u>	<u>490</u>	<u>10</u>	<u>53.9</u>	" "
<u>0816</u>	<u>66.7</u>	<u>7.12</u>	<u>506</u>	<u>7</u>	<u>61.6</u>	" "
<u>0818</u>	<u>66.7</u>	<u>7.14</u>	<u>510</u>	<u>6</u>	<u>69.3</u>	" "
<u>0820</u>	<u>66.6</u>	<u>7.14</u>	<u>519</u>	<u>8</u>	<u>77</u>	" "

Did Well Dewater? <u>NO</u>	If yes, note above.	Gallons Actually Evacuated: <u>77</u>
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WELL DEVELOPMENT DATA SHEET

Project #: <u>030501-MTI</u>	Client: <u>97109122</u>
Developer: <u>M. Dill</u>	Date Developed: <u>5-1-03</u>
Well I.D. <u>MW-3</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>29.75</u> After <u>29.98</u>	Depth to Water: Before <u>18.00</u> After <u>24.00</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in³/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

<u>7.6</u>	X	<u>10</u>	=	<u>76</u>
1 Case Volume		Specified Volumes		gallons

Pumping Device: Bailer Electric Submersible 3.5 GPM
 Middleburg Suction Pump

Type of Installed Pump _____
 Other equipment used 4" Survey Block

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
						<u>Swabbed well for 15 min</u>
<u>0943</u>	<u>67.3</u>	<u>7.03</u>	<u>568</u>	<u>>1000</u>	<u>7.6</u>	<u>Strong odor, Brown, Silt</u>
<u>0945</u>	<u>67.5</u>	<u>6.95</u>	<u>486</u>	<u>>1000</u>	<u>15.2</u>	<u>" " "</u>
<u>0947</u>	<u>67.5</u>	<u>6.94</u>	<u>469</u>	<u>587</u>	<u>22.8</u>	<u>" " " Hard Bottoms</u>
<u>0949</u>	<u>67.8</u>	<u>6.95</u>	<u>475</u>	<u>>1000</u>	<u>30.4</u>	<u>" " " "</u>
<u>0951</u>	<u>67.7</u>	<u>6.89</u>	<u>450</u>	<u>>1000</u>	<u>38</u>	<u>Slight odor, Brown, Silt, Hard Bottoms</u>
<u>0953</u>	<u>67.7</u>	<u>6.90</u>	<u>447</u>	<u>>1000</u>	<u>45.6</u>	<u>" " "</u>
<u>0955</u>	<u>67.7</u>	<u>6.92</u>	<u>469</u>	<u>492</u>	<u>53.2</u>	<u>Clearing up, Hard Bottom</u>
<u>0957</u>	<u>67.7</u>	<u>6.92</u>	<u>464</u>	<u>214</u>	<u>60.8</u>	<u>" "</u>
<u>0959</u>	<u>67.7</u>	<u>6.92</u>	<u>459</u>	<u>197</u>	<u>68.4</u>	<u>" "</u>
<u>1001</u>	<u>67.7</u>	<u>6.92</u>	<u>452</u>	<u>112</u>	<u>76</u>	<u>" "</u>

Did Well Dewater? No If yes, note above. Gallons Actually Evacuated: 76

ATTACHMENT B

Virgil Chavez Land Surveying Report

Virgil Chavez Land Surveying

312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

June 2, 2003
Project No.: 2216-13

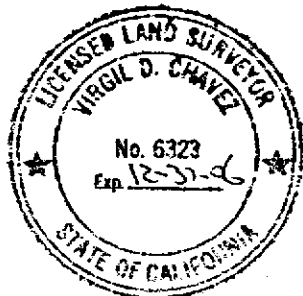
Jason Gerke
Cambria Environmental
5900 Hollis Street, Suite A
Emeryville, CA 94608

Subject: Monitoring Well Survey
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

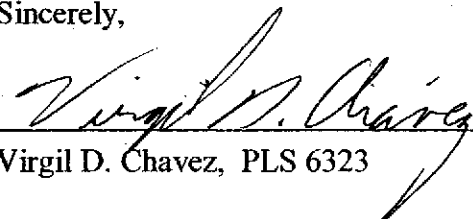
Dear Jason:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was completed on May 29, 2003. The benchmark for this survey was a standard disk in concrete monument at the southeast curb of Fruitvale and Foothill. The latitude, longitude and coordinates are for top of casings and are based on the CA State Coordinate System, Zone III (NAD83). Benchmark Elevation = 72.171 feet (NGVD 29).

<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
37.7841065	-122.2230192	2112556.42	6063766.40	74.82	RIM MW-1
				74.37	TOC MW-1
				74.54	RIM MW-2
37.7839670	-122.2228158	2112504.54	6063824.23	74.25	TOC MW-2
				73.94	RIM MW-3
37.7839669	-122.2230232	2112505.63	6063764.31	73.63	TOC MW-3



Sincerely,


Virgil D. Chavez, PLS 6323