



Shell Oil Products US

Re 433

October 1, 2003

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

Alameda County

OCT 03 2003

Environmental Health

Subject: Former Shell Service Station
1230 14th Street
Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Third 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
Sr. Environmental Engineer

October 1, 2003

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

Re: **Third Quarter 2003 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #245-0233-002



Dear Mr. Chan:

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.

REMEDIATION SUMMARY

Groundwater Extraction (GWE): As proposed in the May 23, 2002 *Subsurface Investigation Work Plan*, semi-monthly mobile GWE using MW-5 began on June 11, 2002 in an attempt to reduce hydrocarbon concentrations in groundwater in the suspected source area. GWE removed approximately 5.1 pounds of hydrocarbons.

Dual Phase Vapor Extraction (DVE): DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance GWE from the saturated zone. Cambria substituted semi-monthly DVE for GWE beginning on September 19, 2002. DVE was discontinued on March 4, 2003. DVE removed approximately 4.1 pounds of vapor phase hydrocarbons from the subsurface.


THIRD QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells, measured dissolved oxygen (DO) concentrations, calculated groundwater elevations, and compiled the collected data. Cambria prepared an area vicinity map

Cambria
Environmental
Technology, Inc.

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

which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, with supporting field notes and laboratory reports, is included as Attachment A.



Corrective Action Implementation: From March 17 through 20, 2003, Fast-Tek Engineering Support Services (Fast-Tek) of Point Richmond, California conducted in-situ field testing of hydrogen peroxide injection proposed in Cambria's August 26, 2002 *Subsurface Investigation Report and Corrective Action Plan*, September 12, 2002 *Subsurface Investigation Report and Corrective Action Plan Addendum*, and November 18, 2002 *Subsurface Investigation Report and Corrective Action Plan – Addendum 2*. Fast-Tek injected approximately 3,500 gallons of the proposed 10,000 gallons of 15% hydrogen peroxide into 16 borings at depths ranging from 19.5 to 3.5 feet below grade. As of the July 14, 2003 sampling event, there had been no appreciable observed decrease in hydrocarbon concentrations in groundwater at the site.

Cambria has compared the technique used by Fast-Tek to deliver peroxide to the subsurface with the technique used by Rejuvenate Groundbreaking Solutions, Inc. (Rejuvenate) of San Rafael, California. Based on our experience and Rejuvenate's proven success at other sites, the field test will proceed using Rejuvenate. Injection points were installed on September 11, 2003 and a second phase of peroxide injection was conducted from September 22 through 25, 2003. Confirmation samples were collected on September 29, 2003 and will be reviewed to determine whether further peroxide treatment is effective for this site.

ANTICIPATED FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells, measure DO concentrations, and tabulate the data. Cambria will prepare a monitoring report.

Corrective Action Implementation: As noted above, Cambria will review the data gathered during and following the September peroxide treatment and determine whether further peroxide treatment is appropriate for this site.

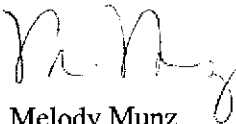
Remediation Report and Verification Sampling Work Plan: Upon completion of the in-situ field test of hydrogen peroxide treatment, Cambria will prepare a report of the field activities and verification sampling.

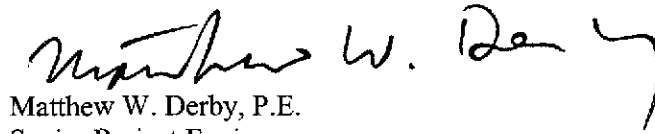
CLOSING

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc




Melody Munz
Project Engineer


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

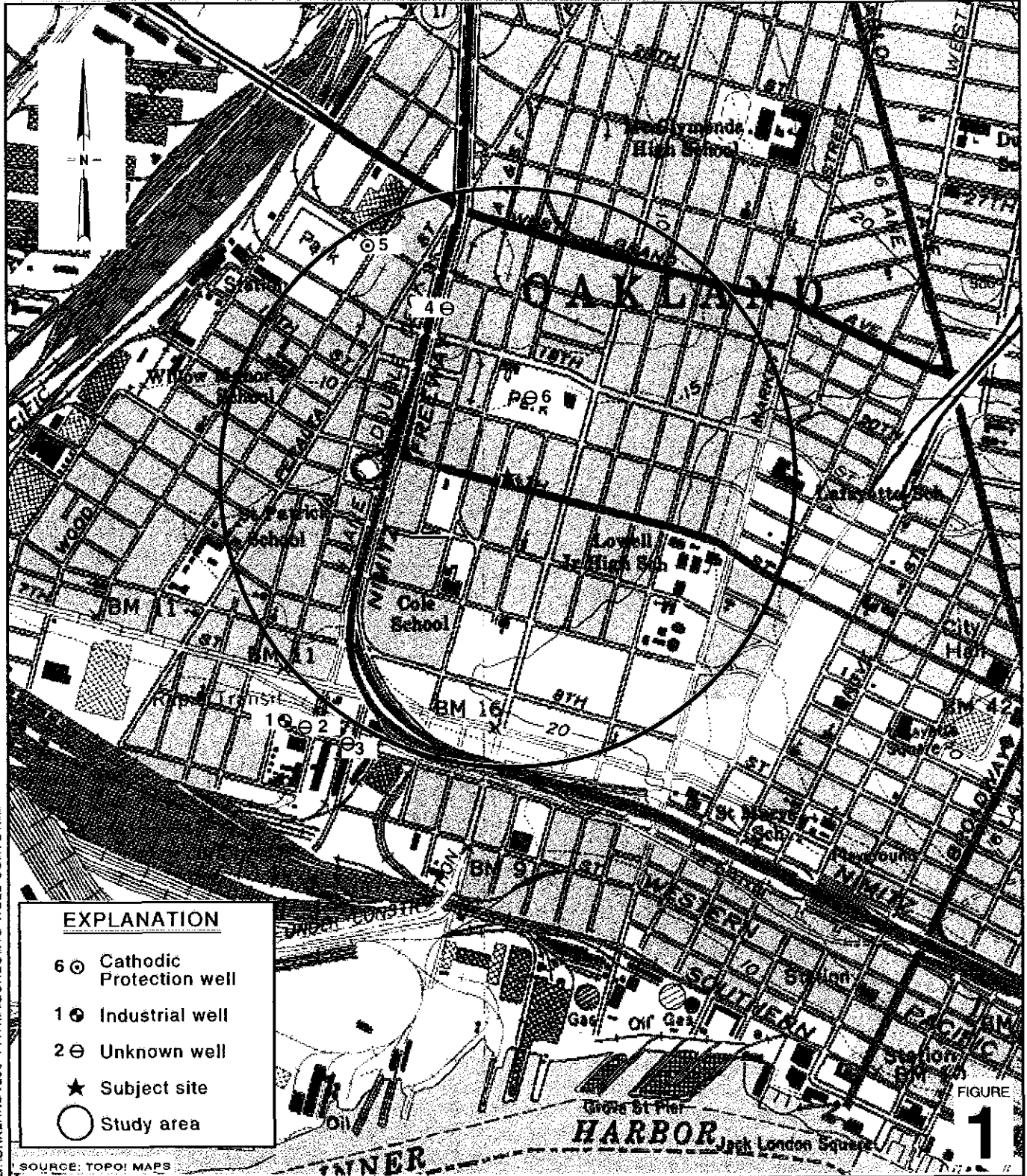


Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

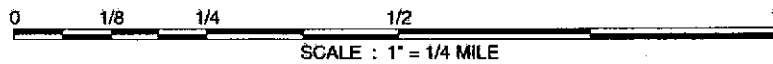
cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
→ Tom Saberi, 1045 Airport Boulevard, Suite 12, South San Francisco, CA 94080
Matthew Dudley, Sedgwick, Detert, Moran, & Arnold, 1 Embarcadero Center,
16th Floor, San Francisco, CA 94111-3628
Ms. Ellen Wyrick-Parkinson, 1420 Magnolia Street, Oakland, CA 94607

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SOURCE: TOPOI MAPS

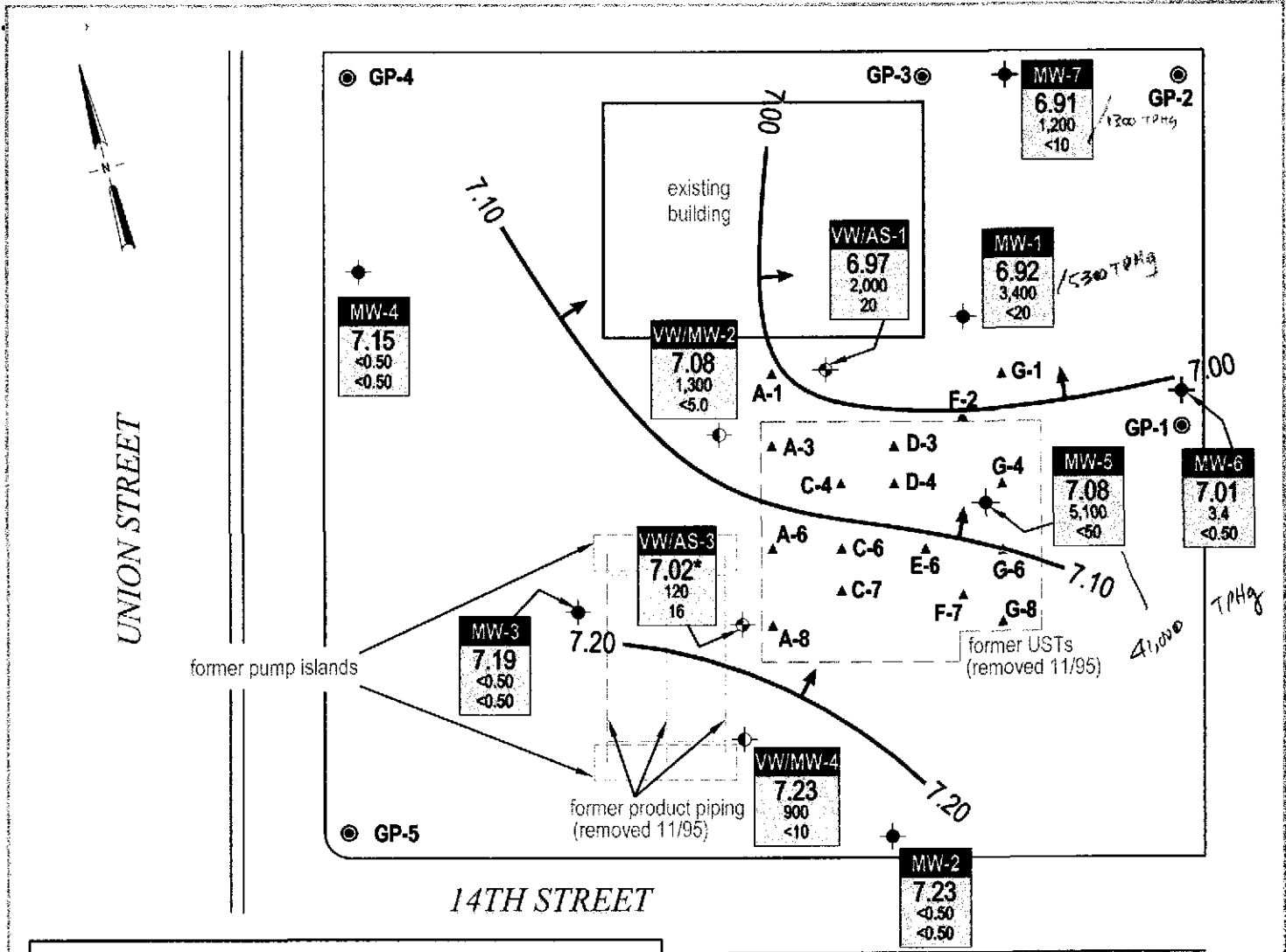


Former Shell Service Station
 1230 14th Street
 Oakland, California
 Incident #97088250



C A M B R I A

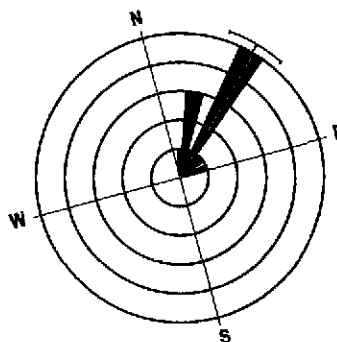
**Vicinity/Area Well
 Survey Map**
 (1/2-Mile Radius)



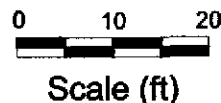
EXPLANATION

- A-1 ▲ Peroxide injection location (03/17-20/03)
- MW-1 ● Monitoring well location
- VW/AS-1 ⊕ Combination air sparge/soil vapor extraction well
- VW/MW-2 ⊕ Combination soil vapor extraction well/monitoring well
- GP-1 ● Soil boring location (12/11/00)
- * Data anomalous, not used for contouring
- 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



Groundwater Flow Direction
(3Q00 through 3Q03)



FIGURE

2

Former Shell Service Station

1230 14th Street
Oakland, California
Incident #97088250



C A M B R I A

Groundwater Elevation Contour Map

July 14, 2003

G:\OAKLAND\1230-14TH\FIGURES\Q003-MP.DWG

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

July 31, 2003

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

Third Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
1230 14th Street
Oakland, CA

Monitoring performed on July 14, 2003

Groundwater Monitoring Report 030714-RH-1

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/ad

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
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	03/25/1996	37,000	7,400	1,500	720	3,300	<500	NA	18.58	9.53	9.05	NA
MW-1	06/21/1996	35,000	9,900	460	340	3,500	890	NA	18.58	10.72	7.86	NA
MW-1	09/26/1996	19,000	8,200	510	780	790	<250	NA	18.58	12.88	5.70	NA
MW-1	12/19/1996	27,000	120	1,200	1,400	2,800	<100	NA	18.58	12.59	5.99	NA
MW-1	12/19/1996	32,000	12,000	1,300	1,600	3,100	830	NA	18.58	12.59	5.99	NA
MW-1	03/25/1997	39,000	13,000	1,600	840	3,100	730	NA	18.58	11.10	7.48	1.2
MW-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.42	6.16	NA
MW-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	13.31	5.27	0.8
MW-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.65	5.93	0.3
MW-1	02/19/1998	16,000	5,500	450	500	800	<500	NA	18.58	6.46	12.12	2.4
MW-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.58	6.62	11.96	1.2
MW-1	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.58	11.83	6.75	2.8
MW-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.58	12.01	6.57	2.6
MW-1	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.58	9.15	9.43	2.2
MW-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.22	7.36	3.8
MW-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.89	6.69	3.0
MW-1	12/27/1999	34,800	8,660	953	956	2,770	<1,000	NA	18.58	13.55	5.03	2.4/2.1
MW-1	01/21/2000	40,600	14,700	1,850	1,210	3,670	<500	NA	18.58	13.42	5.16	2.8
MW-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.58	8.11	10.47	0.4
MW-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.58	9.78	8.80	3.0/3.4
MW-1	04/18/2000	18,300	8,060	543	528	872	<50.0	NA	18.58	NA	NA	NA
MW-1	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.58	13.11	5.47	5.2
MW-1	10/17/2000	15,800	6,720	435	587	887	351	<66.7	18.58	12.61	5.97	1.2/0.8
MW-1	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.94	5.64	0.3
MW-1	04/27/2001	1,400	650	28	58	48	NA	<10	18.58	10.73	7.85	1.8/2.1
MW-1	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.00	6.58	1.8
MW-1	12/06/2001	4,500	1,500	85	160	210	NA	<50	18.58	10.53	8.05	2.5/2.9
MW-1	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.58	9.33	9.25	0.1

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	04/17/2002	230	12	<0.50	4.6	2.5	NA	<5.0	18.58	10.49	8.09	6.3/5.3
MW-1	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.58	11.98	6.60	1.2
MW-1	11/11/2002	12,000	2,600	240	470	640	NA	8.5	18.58	13.00	5.58	0.2/0.2
MW-1	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.58	9.68	8.90	4.4
MW-1	03/13/2003	820	340	2.7	<2.0	3.2	NA	<20	18.58	10.45	8.13	2.8/0.9
MW-1	04/23/2003	900	550	19	49	49	NA	<50	18.58	10.32	8.26	0.9/0.1
MW-1	05/13/2003	740	510	18	43	46	NA	<50	18.58	10.28	8.30	0.1/0.2
MW-1	06/13/2003	<5,000	1,500	82	180	250	NA	<500	18.58	11.16	7.42	0.3/0.8
MW-1	07/14/2003	5,300	3,400	160	340	420	NA	<20	18.58	11.66	6.92	0.6/0.3

MW-2	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	8.19	9.71	NA
MW-2	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.94	7.96	NA
MW-2	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.15	5.75	NA
MW-2	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	17.90	11.70	6.20	NA
MW-2	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.25	8.65	1.8
MW-2	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.36	6.54	2.4
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.15	6.75	0.7
MW-2	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	5.61	12.29	2.7
MW-2	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	17.90	5.58	12.32	3.2
MW-2	08/25/1998	NA	NA	NA	NA	NA	NA	NA	17.90	10.67	7.23	1.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	17.90	11.65	6.25	0.4/0.8
MW-2	03/26/1999	NA	NA	NA	NA	NA	NA	NA	17.90	8.60	9.30	0.7
MW-2	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	10.30	7.60	2.3
MW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	17.90	10.77	7.13	1.9
MW-2	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	12.21	5.69	0.7/0.7
MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	17.90	7.13	10.77	1.1
MW-2	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	8.35	9.55	1.8/1.8

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	17.90	11.76	6.14	2.1
MW-2	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	11.80	6.10	0.9/0.6
MW-2	01/09/2001	NA	NA	NA	NA	NA	NA	NA	17.90	12.14	5.76	0.7
MW-2	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	17.90	9.85	8.05	1.1/0.9
MW-2	07/03/2001	NA	NA	NA	NA	NA	NA	NA	17.90	11.20	6.70	1.2
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	10.77	7.13	3.9/2.1
MW-2	01/23/2002	NA	NA	NA	NA	NA	NA	NA	17.90	8.64	9.26	2.5
MW-2	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	9.61	8.29	3.5/5.2
MW-2	07/18/2002	NA	NA	NA	NA	NA	NA	NA	17.90	11.09	6.81	1.4
MW-2	11/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	17.90	12.16	5.74	0.2/0.3
MW-2	01/16/2003	NA	NA	NA	NA	NA	NA	NA	17.90	8.92	8.98	1.7
MW-2	03/13/2003	NA	NA	NA	NA	NA	NA	NA	17.90	9.60	8.30	1.1
MW-2	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	9.48	8.42	0.4/0.2
MW-2	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	9.45	8.45	0.5/0.3
MW-2	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	17.90	10.28	7.62	0.6/0.9
MW-2	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	17.90	10.67	7.23	0.5/0.9
MW-3	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	8.47	9.71	NA
MW-3	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	10.40	7.78	NA
MW-3	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.45	5.73	NA
MW-3	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.18	12.14	6.02	NA
MW-3	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	9.54	8.64	2.2
MW-3	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.66	6.52	3.6
MW-3	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.85	5.33	1.1
MW-3	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.44	6.74	0.6
MW-3	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	6.78	11.40	3.6
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.18	11.09	7.09	1.2

WELL CONCENTRATIONS
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Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.18	11.84	6.34	0.9/0.6
MW-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.18	8.57	9.61	0.8
MW-3	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	10.61	7.57	4.8
MW-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.18	11.53	6.65	1.4
MW-3	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	12.35	5.83	1.4/2.5
MW-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.17	7.36	10.81	5.8
MW-3	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	19.3	NA	18.17	8.39	9.78	6.5/5.1
MW-3	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.17	12.01	6.16	3.0
MW-3	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.17	12.10	6.07	2.0/1.0
MW-3	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.17	12.43	5.74	1.9
MW-3	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.17	10.10	8.07	2.3/2.4
MW-3	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.17	11.45	6.72	1.4
MW-3	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	11.07	7.10	2.8/3.9
MW-3	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.17	8.89	9.28	3.1
MW-3	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	9.92	8.25	3.7/3.2
MW-3	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.17	11.42	6.75	1.6
MW-3	11/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.17	12.44	5.73	0.3/0.4
MW-3	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.17	9.25	8.92	2.1
MW-3	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.17	9.84	8.33	1.2
MW-3	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	9.71	8.46	0.7/0.2
MW-3	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	9.70	8.47	0.6/0.2
MW-3	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.17	10.58	7.59	0.4/1.3
MW-3	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.17	10.98	7.19	0.4/0.3
MW-4	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.20	8.81	NA
MW-4	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	10.25	7.76	NA
MW-4	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.29	5.72	NA
MW-4	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.01	12.47	5.54	NA
MW-4	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.44	8.57	1.8

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MW-4	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4 (D)	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.75	5.26	2.1
MW-4	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4 (D)	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	5.59	12.42	6.5
MW-4	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.01	5.65	12.36	2.6
MW-4	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.01	10.98	7.03	2.4
MW-4	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.01	11.83	6.18	1.3/1.2
MW-4	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.01	8.40	9.61	1.9
MW-4	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	10.53	7.48	7.6
MW-4	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.01	11.03	6.98	2.6
MW-4	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	12.53	5.48	1.9/0.8
MW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.01	7.00	11.01	6.5
MW-4	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	8.57	9.44	5.1/5.1
MW-4	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.01	12.05	5.96	3.0
MW-4	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	11.96	6.05	5.5/1.2
MW-4	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.01	12.33	5.68	2.1
MW-4	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.01	9.96	8.05	5.3/3.8
MW-4	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.01	11.35	6.66	4.5
MW-4	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	10.99	7.02	10.23/6.5
MW-4	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.01	8.80	9.21	8.8
MW-4	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	9.75	8.26	7.0/5.1
MW-4	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.01	11.32	6.69	5.3
MW-4	11/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.01	12.36	5.65	3.6/2.0
MW-4	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.01	10.33	7.68	6.5
MW-4	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.01	10.06	7.95	6.5
MW-4	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	9.57	8.44	5.1/5.7
MW-4	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	9.55	8.46	2.0/2.5

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MW-4	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.01	10.50	7.51	5.0/5.6
MW-4	07/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.01	10.86	7.15	3.9/4.2
MW-5	12/03/2001	NA	NA	NA	NA	NA	NA	NA	18.47	11.86	6.61	NA
MW-5	12/06/2001	31,000	3,000	2,000	1,100	3,000	NA	<50	18.47	11.40	7.07	3.1/3.2
MW-5	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.47	9.24	9.23	0.9
MW-5	04/17/2002	33,000	3,800	2,400	1,300	4,400	NA	<200	18.47	10.35	8.12	5.3/3.8
MW-5	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.47	11.82	6.65	0.8
MW-5	11/11/2002	100,000	7,100	12,000	3,000	17,000	NA	5.1	18.47	12.86	5.61	1.2/1.4
MW-5	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.47	9.57	8.90	0.0
MW-5	03/13/2003	33,000	2,800	2,200	980	4,600	NA	<100	18.47	10.30	8.17	0.5/0.3
MW-5	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.47	10.29	8.18	NA
MW-5	04/23/2003	33,000	2,900	3,100	960	5,800	NA	<250	18.47	10.15	8.32	0.1/0.1
MW-5	05/13/2003	30,000	2,600	1,500	850	4,500	NA	<250	18.47	10.12	8.35	0.4/0.3
MW-5	06/13/2003	33,000	3,400	2,300	1,000	4,400	NA	<500	18.47	11.00	7.47	0.3/0.3
MW-5	07/14/2003	41,000	5,100	3,500	1,400	5,100	NA	<50	18.47	11.39	7.08	0.5/0.5
MW-6	12/03/2001	NA	NA	NA	NA	NA	NA	NA	18.84	12.19	6.65	NA
MW-6	12/06/2001	76	5.7	3.8	1.4	7.0	NA	<5.0	18.84	11.70	7.14	6.3/6.1
MW-6	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.84	9.57	9.27	8.7
MW-6	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.84	10.73	8.11	9.8/9.1
MW-6	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.84	12.27	6.57	1.7
MW-6	11/11/2002	580	55	<0.50	<0.50	2.8	NA	<5.0	18.84	13.24	5.60	0.3/0.6
MW-6	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.84	9.89	8.95	6.4
MW-6	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.84	10.66	8.18	5.5
MW-6	04/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	10.57	8.27	3.7/4.4
MW-6	05/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	10.56	8.28	3.5/3.0
MW-6	06/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	18.84	11.48	7.36	2.7/3.1
MW-6	07/14/2003	230 b	3.4	<0.50	<0.50	<1.0	NA	<0.50	18.84	11.83	7.01	1.8/1.3

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MW-7	12/03/2001	NA	NA	NA	NA	NA	NA	NA	19.20	12.66	6.54	NA
MW-7	12/06/2001	1,800	390	<2.0	6.2	<2.0	NA	<20	19.20	12.20	7.00	3.9/3.8
MW-7	01/23/2002	NA	NA	NA	NA	NA	NA	NA	19.20	10.00	9.20	9.4
MW-7	04/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	19.20	11.21	7.99	8.8/7.3
MW-7	07/18/2002	NA	NA	NA	NA	NA	NA	NA	19.20	12.69	6.51	0.8
MW-7	11/11/2002	3,000	190	<0.50	<0.50	4.3	NA	5.2	19.20	13.69	5.51	0.4/0.8
MW-7	01/16/2003	NA	NA	NA	NA	NA	NA	NA	19.20	10.36	8.84	7.9
MW-7	03/13/2003	NA	NA	NA	NA	NA	NA	NA	19.20	11.16	8.04	5.2
MW-7	04/23/2003	250	48	<0.50	<0.50	<1.0	NA	<5.0	19.20	11.02	8.18	3.2/1.3
MW-7	05/13/2003	1,700	550	<2.5	<2.5	<5.0	NA	<25	19.20	11.00	8.20	2.0/1.5
MW-7	06/13/2003	1,500 b	470	<2.5	<2.5	<5.0	NA	<25	19.20	11.90	7.30	1.8/1.6
MW-7	07/14/2003	1300 b	1,200	<10	<10	<20	NA	<10	19.20	12.29	6.91	0.4/0.2

VWMW-2	03/25/1996	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA
VWMW-2	06/21/1996	27,000	4,100	1,100	1,400	3,200	700	NA	18.30	10.48	7.82	NA
VWMW-2	09/26/1996	27,000	5,300	1,900	980	2,200	<500	NA	18.30	12.52	5.78	NA
VWMW-2 (D)	09/26/1996	29,000	5,800	2,200	1,100	2,500	<250	NA	18.30	12.52	5.78	NA
VWMW-2	12/19/1996	50,000	6,200	5,100	1,700	5,600	590	NA	18.30	12.42	5.88	NA
VWMW-2	03/25/1997	210	5.6	<0.50	0.52	<0.50	14	NA	18.30	9.83	8.47	2.0
VWMW-2 (D)	03/25/1997	250	1.7	0.58	0.51	<0.50	4.7	NA	18.30	9.83	8.47	2.0
VWMW-2	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.43	5.87	NA
VWMW-2	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.98	5.32	0.9
VWMW-2	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.20	6.10	0.4
VWMW-2	02/19/1998	<50	1.5	<0.50	<0.50	0.71	<2.5	NA	18.30	5.83	12.47	3.6
VWMW-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.30	5.80	12.50	1.0
VWMW-2	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.72	6.58	4.8
VWMW-2	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.69	6.61	2.7
VWMW-2	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.30	8.75	9.55	2.8

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VWMW-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	10.72	7.58	4.7
VWMW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	12.24	6.06	4.9
VWMW-2	12/27/1999	13,500	1,330	1,310	490	1,400	<250	NA	18.30	13.92	4.38	2.1/1.9
VWMW-2	01/21/2000	12,100	2,200	1,080	429	1,120	<250	NA	18.30	13.26	5.04	2.8
VWMW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.28	7.87	10.41	3.7
VWMW-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.28	9.65	8.63	3.7/4.1
VWMW-2	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.28	NA	NA	NA
VWMW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.28	12.75	5.53	6.2
VWMW-2	10/17/2000	4,070	763	589	214	501	<50.0	NA	18.28	12.21	6.07	0.8/0.7
VWMW-2	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.28	12.51	5.77	0.7
VWMW-2	04/27/2001	80	5.7	<0.50	2.7	4.9	NA	<0.50	18.28	10.21	8.07	2.3/2.8
VWMW-2	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.28	11.60	6.68	0.6
VWMW-2	12/06/2001	160	1.7	1.0	1.8	4.6	NA	<5.0	18.28	11.15	7.13	3.7/2.3
VWMW-2	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.28	9.07	9.21	0.5
VWMW-2	04/17/2002	<50	2.1	<0.50	<0.50	<0.50	NA	<5.0	18.28	10.11	8.17	4.9/4.4
VWMW-2	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.28	11.61	6.67	0.9
VWMW-2	11/11/2002	15,000	1,300	1,300	680	1,800	NA	<5.0	18.28	12.63	5.65	0.2/0.2
VWMW-2	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.28	9.35	8.93	0.4
VWMW-2	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.28	10.09	8.19	0.8
VWMW-2	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.28	10.09	8.19	NA
VWMW-2	04/23/2003	1,100	76	29	45	66	NA	<5.0	18.28	9.95	8.33	0.8/0.3
VWMW-2	05/13/2003	1,200	38	16	16	24	NA	<5.0	18.28	9.90	8.38	0.2/0.2
VWMW-2	06/13/2003	9,600	1,300	1,100	440	890	NA	<250	18.28	10.80	7.48	0.2/0.5
VWMW-2	07/14/2003	11,000	1,300	1,800	430	1,500	NA	<5.0	18.28	11.20	7.08	0.5/0.5

VWMW-4	03/25/1996	83,000	6,500	7,000	2,000	11,000	<250	NA	18.14	8.45	9.69	NA
VWMW-4 (D)	03/25/1996	84,000	6,400	7,000	2,100	12,000	<250	NA	18.14	8.45	9.69	NA
VWMW-4	06/21/1996	110,000	14,000	15,000	3,700	17,000	1,700	NA	18.14	10.38	7.76	NA
VWMW-4 (D)	06/21/1996	100,000	12,000	12,000	2,900	13,000	<1,000	NA	18.14	10.38	7.76	NA

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VWMW-4	09/26/1996	52,000	13,000	2,700	2,100	3,200	<500	NA	18.14	12.43	5.71	NA
VWMW-4	12/19/1996	75,000	15,000	6,600	3,000	7,600	<1,250	NA	18.14	11.87	6.27	NA
VWMW-4	03/25/1997	56,000	4,700	1,500	2,500	6,300	580	NA	18.14	9.60	8.54	2.4
VWMW-4	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.36	5.78	NA
VWMW-4	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.82	5.32	0.4
VWMW-4	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.15	5.99	0.3
VWMW-4	02/19/1998	4,100	320	40	44	520	<50	NA	18.14	5.85	12.29	1.8
VWMW-4 (D)	02/19/98	4,300	340	44	47	540	<50	NA	18.14	5.85	12.29	1.8
VWMW-4	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.14	5.87	12.27	1.8
VWMW-4	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.14	10.96	7.18	2.5
VWMW-4	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.14	11.28	6.86	0.9
VWMW-4	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.14	8.45	9.69	1.9
VWMW-4	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	9.70	8.44	3.6
VWMW-4	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	11.78	6.36	2.6
VWMW-4	12/27/1999	33,900	3,740	2,000	1,130	5,090	587	NA	18.14	12.63	5.51	0.4/0.2
VWMW-4	01/21/2000	13,900	1,560	568	227	1,990	<500	21.0a	18.14	13.07	5.07	1.0
VWMW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.13	7.82	10.31	0.9
VWMW-4	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.13	9.18	8.95	1.4/1.9
VWMW-4	04/18/2000	757	103	8.59	30.8	84.2	<25.0	NA	18.13	NA	NA	NA
VWMW-4	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.13	12.18	5.95	5.0
VWMW-4	10/17/2000	8,360	2,060	391	468	1,170	147	NA	18.13	12.03	6.10	0.7/0.8
VWMW-4	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.13	12.42	5.71	0.9
VWMW-4	04/27/2001	7,100	2,300	50	460	250	NA	<10	18.13	10.13	8.00	1.0/1.4
VWMW-4	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.13	11.42	6.71	1.2
VWMW-4	12/06/2001	7,700	750	90	300	350	NA	<25	18.13	11.02	7.11	2.5/1.9
VWMW-4	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.13	8.89	9.24	0.4
VWMW-4	04/17/2002	4,800	760	27	240	150	NA	<25	18.13	9.89	8.24	4.7/5.1
VWMW-4	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.13	11.37	6.76	0.6
VWMW-4	11/11/2002	14,000	2,800	480	700	1,300	NA	<100	18.13	12.41	5.72	0.3/0.3

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
VWMW-4	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.13	9.17	8.96	0.8
VWMW-4	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.13	9.85	8.28	1.1
VWMW-4	04/23/2003	2,400	710	28	160	100	NA	<50	18.13	9.74	8.39	0.2/0.05
VWMW-4	05/13/2003	3,300	720	35	170	160	NA	<50	18.13	9.70	8.43	0.2/0.2
VWMW-4	06/13/2003	8,200	1,700	220	460	790	NA	<250	18.13	10.55	7.58	0.3/0.3
VWMW-4	07/14/2003	3,700	900	190	220	540	NA	<10	18.13	10.90	7.23	0.5/0.4
VW/AS-1	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.60	8.98	9.62	NA
VW/AS-1	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.60	10.95	7.65	NA
VW/AS-1	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.98	5.62	NA
VW/AS-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.67	5.93	NA
VW/AS-1	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.60	10.12	8.48	NA
VW/AS-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	12.34	6.26	NA
VW/AS-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	13.40	5.20	NA
VW/AS-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.60	11.96	6.64	5.2
VW/AS-1	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.22	12.38	1.3
VW/AS-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.20	12.40	1.0
VW/AS-1	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.59	7.01	1.6
VW/AS-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.74	6.86	1.3
VW/AS-1	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.60	9.20	9.40	1.3
VW/AS-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.08	7.52	2.1
VW/AS-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.94	6.66	1.9
VW/AS-1	12/27/1999	8,940	2,000	95.7	1,200	570	606	NA	18.60	11.01	7.59	1.6/1.8
VW/AS-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.59	7.35	11.24	NA
VW/AS-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.59	9.08	9.51	1.9/2.0
VW/AS-1	04/18/2000	20,800	6,550	1,220	2,270	1,720	<250	NA	18.59	NA	NA	NA
VW/AS-1	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.59	11.98	6.61	2.1
VW/AS-1	10/17/2000	38,400	7,240	5,980	1,960	5,730	534	72.4	18.59	12.62	5.97	2.5/1.0
VW/AS-1	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.59	13.03	5.56	1.9

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
VW/AS-1	04/27/2001	34,000	8,000	2,100	2,500	2,000	NA	<25	18.59	10.71	7.88	2.9/2.1
VW/AS-1	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.59	12.03	6.56	2.0
VW/AS-1	12/06/2001	6,000	990	35	820	59	NA	<25	18.59	11.63	6.96	1.2/0.8
VW/AS-1	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.59	9.34	9.25	0.9
VW/AS-1	04/17/2002	12,000	2,900	57	1,400	98	NA	<200	18.59	10.41	8.18	3.3/2.9
VW/AS-1	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.59	12.13	6.46	0.3
VW/AS-1	11/11/2002	2,200	340	7.3	250	24	NA	<20	18.59	13.15	5.44	1.2/1.3
VW/AS-1	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.59	9.73	8.86	2.3
VW/AS-1	03/13/2003	11,000	2,500	55	1,800	170	NA	<100	18.59	10.45	8.14	2.1/1.9
VW/AS-1	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.59	10.40	8.19	NA
VW/AS-1	04/23/2003	9,500	4,100	200	1,400	200	NA	<250	18.59	10.28	8.31	1.2/0.4
VW/AS-1	05/13/2003	9,700	2,300	110	1,100	140	NA	<250	18.59	10.26	8.33	0.5/2.0
VW/AS-1	06/13/2003	9,300	2,300	77	820	<100	NA	<500	18.59	11.15	7.44	1.0/0.5
VW/AS-1	07/15/2003	5,500	2,000	230	620	360	NA	20	18.59	11.62	6.97	1.8/1.9
VW/AS-3	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VW/AS-3	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VW/AS-3	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.49	5.68	NA
VW/AS-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.28	5.89	NA
VW/AS-3	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VW/AS-3	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VW/AS-3	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VW/AS-3	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VW/AS-3	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VW/AS-3	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VW/AS-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.43	6.74	1.3
VW/AS-3	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.63	6.54	1.7
VW/AS-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)
VW/AS-3	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VW/AS-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	11.78	6.39	1.5
VW/AS-3	12/27/1999	488	47.9	2.60	16.9	8.50	35.4	NA	18.17	12.57	5.60	1.5/2.1
VW/AS-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.14	4.82	13.32	NA
VW/AS-3	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.14	8.69	9.45	2.0/2.4
VW/AS-3	04/18/2000	3,110	871	<5.00	141	56.8	78.2	NA	18.14	NA	NA	NA
VW/AS-3	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.14	11.65	6.49	2.5
VW/AS-3	10/17/2000	7,730	2,700	<50.0	542	344	<250	42.1	18.14	12.13	6.01	1.6/1.0
VW/AS-3	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.14	12.51	5.63	2.2
VW/AS-3	04/27/2001	14,000	3,900	62	690	560	NA	46	18.14	10.20	7.94	2.8/1.6
VW/AS-3	07/03/2001	NA	NA	NA	NA	NA	NA	NA	18.14	11.55	6.59	2.6
VW/AS-3	12/06/2001	5,000	1,200	19	380	320	NA	<50	18.14	11.10	7.04	0.9/1.1
VW/AS-3	01/23/2002	NA	NA	NA	NA	NA	NA	NA	18.14	8.93	9.21	1.1
VW/AS-3	04/17/2002	17,000	5,000	<25	1,100	390	NA	<250	18.14	10.00	8.14	3.2/3.2
VW/AS-3	07/18/2002	NA	NA	NA	NA	NA	NA	NA	18.14	11.49	6.65	0.4
VW/AS-3	11/11/2002	1,700	290	1.5	150	2.8	NA	<10	18.14	12.43	5.71	1.0/1.1
VW/AS-3	01/16/2003	NA	NA	NA	NA	NA	NA	NA	18.14	9.32	8.82	4.7
VW/AS-3	03/13/2003	NA	NA	NA	NA	NA	NA	NA	18.14	9.88	8.26	2.7
VW/AS-3	04/23/2003	150	47	0.67	8.5	3.2	NA	<5.0	18.14	9.85	8.29	2.1/0.7
VW/AS-3	05/13/2003	440	35	<0.50	1.7	<1.0	NA	<5.0	18.14	9.81	8.33	1.4/1.8
VW/AS-3	06/13/2003	580	71	<2.5	40	<5.0	NA	<25	18.14	10.77	7.37	1.1/0.6
VW/AS-3	07/14/2003	1,100	120	4.9	63	9.3	NA	16	18.14	11.12	7.02	2.0/2.2

WELL CONCENTRATIONS
Former Shell Service Station
1230 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

NA = Not applicable

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

n/n = Pre-purge/Post-purge DO Readings

Notes:

a = Sample was analyzed outside of the EPA recommended holding time.

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

Site surveyed November 1, 2001 by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

July 28, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 030714-RH1
Project: 97088250
Site: 1230 14th Street, Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 07/15/2003 16:00


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 08/29/2003 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/MTBE 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: 030714-RH1

97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/14/2003 10:28	Water	1
MW-2	07/14/2003 10:07	Water	2
MW-3	07/14/2003 09:48	Water	3
MW-4	07/14/2003 09:30	Water	4
MW-5	07/14/2003 11:39	Water	5
MW-6	07/14/2003 12:08	Water	6
MW-7	07/14/2003 12:23	Water	7
VW/MW-2	07/14/2003 10:48	Water	8
VW/MW-4	07/14/2003 11:06	Water	9
VW/AS-1	07/14/2003 09:05	Water	10
VW/AS-3	07/14/2003 08:26	Water	11

Gas/BTEX/MTBE by 8260B (C6-C12)

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

Project: 030714-RH1

97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2003-07-0448 - 1
Sampled: 07/14/2003 10:28	Extracted: 7/23/2003 23:04
Matrix: Water	QC Batch#: 2003/07/23-2A.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5300	2000	ug/L	40.00	07/23/2003 23:04	
Benzene	3400	20	ug/L	40.00	07/23/2003 23:04	
Toluene	160	20	ug/L	40.00	07/23/2003 23:04	
Ethylbenzene	340	20	ug/L	40.00	07/23/2003 23:04	
Total xylenes	420	40	ug/L	40.00	07/23/2003 23:04	
Methyl tert-butyl ether (MTBE)	ND	20	ug/L	40.00	07/23/2003 23:04	
Surrogates(s)						
1,2-Dichloroethane-d4	107.0	76-130	%	40.00	07/23/2003 23:04	
Toluene-d8	107.2	78-115	%	40.00	07/23/2003 23:04	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030714-RH1

97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2003-07-0448 - 2
Sampled:	07/14/2003 10:07	Extracted:	7/24/2003 20:51
Matrix:	Water	QC Batch#:	2003/07/24-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/24/2003 20:51	
Benzene	ND	0.50	ug/L	1.00	07/24/2003 20:51	
Toluene	ND	0.50	ug/L	1.00	07/24/2003 20:51	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2003 20:51	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2003 20:51	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/24/2003 20:51	
Surrogates(s)						
1,2-Dichloroethane-d4	111.9	76-130	%	1.00	07/24/2003 20:51	
Toluene-d8	105.9	78-115	%	1.00	07/24/2003 20:51	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105

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Project: 030714-RH1

97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-07-0448 - 3
Sampled:	07/14/2003 09:48	Extracted:	7/23/2003 23:49
Matrix:	Water	QC Batch#:	2003/07/23-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/23/2003 23:49	
Benzene	ND	0.50	ug/L	1.00	07/23/2003 23:49	
Toluene	ND	0.50	ug/L	1.00	07/23/2003 23:49	
Ethylbenzene	ND	0.50	ug/L	1.00	07/23/2003 23:49	
Total xylenes	ND	1.0	ug/L	1.00	07/23/2003 23:49	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/23/2003 23:49	
Surrogates(s)						
1,2-Dichloroethane-d4	108.8	76-130	%	1.00	07/23/2003 23:49	
Toluene-d8	104.8	78-115	%	1.00	07/23/2003 23:49	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030714-RH1
97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-07-0448 - 4
Sampled:	07/14/2003 09:30	Extracted:	7/26/2003 12:46
Matrix:	Water	QC Batch#:	2003/07/26-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/26/2003 12:46	
Benzene	ND	0.50	ug/L	1.00	07/26/2003 12:46	
Toluene	ND	0.50	ug/L	1.00	07/26/2003 12:46	
Ethylbenzene	ND	0.50	ug/L	1.00	07/26/2003 12:46	
Total xylenes	ND	1.0	ug/L	1.00	07/26/2003 12:46	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/26/2003 12:46	
Surrogates(s)						
1,2-Dichloroethane-d4	91.6	76-130	%	1.00	07/26/2003 12:46	
Toluene-d8	101.6	78-115	%	1.00	07/26/2003 12:46	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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

Project: 030714-RH1

97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-5	Lab ID: 2003-07-0448 - 5
Sampled: 07/14/2003 11:39	Extracted: 7/24/2003 01:20
Matrix: Water	QC Batch#: 2003/07/23-2A.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	41000	5000	ug/L	100.00	07/24/2003 01:20	
Benzene	5100	50	ug/L	100.00	07/24/2003 01:20	
Toluene	3500	50	ug/L	100.00	07/24/2003 01:20	
Ethylbenzene	1400	50	ug/L	100.00	07/24/2003 01:20	
Total xylenes	5100	100	ug/L	100.00	07/24/2003 01:20	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	100.00	07/24/2003 01:20	
Surrogates(s)						
1,2-Dichloroethane-d4	100.9	76-130	%	100.00	07/24/2003 01:20	
Toluene-d8	101.1	78-115	%	100.00	07/24/2003 01:20	

Gas/BTEX/MTBE 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: 030714-RH1

97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2003-07-0448 - 6
Sampled:	07/14/2003 12:08	Extracted:	7/25/2003 14:40
Matrix:	Water	QC Batch#:	2003/07/25-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	230	50	ug/L	1.00	07/25/2003 14:40	g
Benzene	3.4	0.50	ug/L	1.00	07/25/2003 14:40	
Toluene	ND	0.50	ug/L	1.00	07/25/2003 14:40	
Ethylbenzene	ND	0.50	ug/L	1.00	07/25/2003 14:40	
Total xylenes	ND	1.0	ug/L	1.00	07/25/2003 14:40	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/25/2003 14:40	
Surrogates(s)						
1,2-Dichloroethane-d4	108.3	76-130	%	1.00	07/25/2003 14:40	
Toluene-d8	101.8	78-115	%	1.00	07/25/2003 14:40	

Gas/BTEX/MTBE 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: 030714-RH1
97088250

Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-7	Lab ID: 2003-07-0448 - 7
Sampled: 07/14/2003 12:23	Extracted: 7/24/2003 02:05
Matrix: Water	QC Batch#: 2003/07/23-2A.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	1000	ug/L	20.00	07/24/2003 02:05	g
Benzene	1200	10	ug/L	20.00	07/24/2003 02:05	
Toluene	ND	10	ug/L	20.00	07/24/2003 02:05	
Ethylbenzene	ND	10	ug/L	20.00	07/24/2003 02:05	
Total xylenes	ND	20	ug/L	20.00	07/24/2003 02:05	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	07/24/2003 02:05	
Surrogates(s)						
1,2-Dichloroethane-d4	114.0	76-130	%	20.00	07/24/2003 02:05	
Toluene-d8	105.5	78-115	%	20.00	07/24/2003 02:05	

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07/28/2003 16:07

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	VW/MW-2	Lab ID:	2003-07-0448 - 8
Sampled:	07/14/2003 10:48	Extracted:	7/24/2003 02:27
Matrix:	Water	QC Batch#:	2003/07/23-2A.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	500	ug/L	10.00	07/24/2003 02:27	
Benzene	1300	5.0	ug/L	10.00	07/24/2003 02:27	
Toluene	1800	5.0	ug/L	10.00	07/24/2003 02:27	
Ethylbenzene	430	5.0	ug/L	10.00	07/24/2003 02:27	
Total xylenes	1500	10	ug/L	10.00	07/24/2003 02:27	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	10.00	07/24/2003 02:27	
Surrogates(s)						
1,2-Dichloroethane-d4	103.0	76-130	%	10.00	07/24/2003 02:27	
Toluene-d8	105.3	78-115	%	10.00	07/24/2003 02:27	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	VW/MW-4	Lab ID:	2003-07-0448 - 9
Sampled:	07/14/2003 11:06	Extracted:	7/24/2003 02:49
Matrix:	Water	QC Batch#:	2003/07/23-2A.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3700	1000	ug/L	20.00	07/24/2003 02:49	
Benzene	900	10	ug/L	20.00	07/24/2003 02:49	
Toluene	190	10	ug/L	20.00	07/24/2003 02:49	
Ethylbenzene	220	10	ug/L	20.00	07/24/2003 02:49	
Total xylenes	540	20	ug/L	20.00	07/24/2003 02:49	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	07/24/2003 02:49	
Surrogates(s)						
1,2-Dichloroethane-d4	112.2	76-130	%	20.00	07/24/2003 02:49	
Toluene-d8	106.3	78-115	%	20.00	07/24/2003 02:49	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	VW/AS-1	Lab ID:	2003-07-0448 - 10
Sampled:	07/14/2003 09:05	Extracted:	7/24/2003 03:12
Matrix:	Water	QC Batch#:	2003/07/23-2A.65
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5500	500	ug/L	10.00	07/24/2003 03:12	
Benzene	2000	5.0	ug/L	10.00	07/24/2003 03:12	
Toluene	230	5.0	ug/L	10.00	07/24/2003 03:12	
Ethylbenzene	620	5.0	ug/L	10.00	07/24/2003 03:12	
Total xylenes	360	10	ug/L	10.00	07/24/2003 03:12	
Methyl tert-butyl ether (MTBE)	20	5.0	ug/L	10.00	07/24/2003 03:12	
Surrogates(s)						
1,2-Dichloroethane-d4	98.9	76-130	%	10.00	07/24/2003 03:12	
Toluene-d8	103.5	78-115	%	10.00	07/24/2003 03:12	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: VW/AS-3	Lab ID: 2003-07-0448 - 11
Sampled: 07/14/2003 08:26	Extracted: 7/24/2003 21:14
Matrix: Water	QC Batch#: 2003/07/24-1D.64
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1100	250	ug/L	5.00	07/24/2003 21:14	
Benzene	120	2.5	ug/L	5.00	07/24/2003 21:14	
Toluene	4.9	2.5	ug/L	5.00	07/24/2003 21:14	
Ethylbenzene	63	2.5	ug/L	5.00	07/24/2003 21:14	
Total xylenes	9.3	5.0	ug/L	5.00	07/24/2003 21:14	
Methyl tert-butyl ether (MTBE)	16	2.5	ug/L	5.00	07/24/2003 21:14	
Surrogates(s)						
1,2-Dichloroethane-d4	122.2	76-130	%	5.00	07/24/2003 21:14	
Toluene-d8	107.0	78-115	%	5.00	07/24/2003 21:14	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1
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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260FAB	
Method Blank				QC Batch # 2003/07/23-2A.65	
MB: 2003/07/23-2A.65-035				Date Extracted: 07/23/2003 21:35	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/23/2003 21:35	
Benzene	ND	0.5	ug/L	07/23/2003 21:35	
Toluene	ND	0.5	ug/L	07/23/2003 21:35	
Ethylbenzene	ND	0.5	ug/L	07/23/2003 21:35	
Total xylenes	ND	1.0	ug/L	07/23/2003 21:35	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/23/2003 21:35	
Surrogates(s)					
1,2-Dichloroethane-d4	92.5	76-130	%	07/23/2003 21:35	
Toluene-d8	105.1	78-115	%	07/23/2003 21:35	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/07/24-1D.64	
MB: 2003/07/24-1D.64-028				Date Extracted: 07/24/2003 10:28	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/24/2003 10:28	
Benzene	ND	0.5	ug/L	07/24/2003 10:28	
Toluene	ND	0.5	ug/L	07/24/2003 10:28	
Ethylbenzene	ND	0.5	ug/L	07/24/2003 10:28	
Total xylenes	ND	1.0	ug/L	07/24/2003 10:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/24/2003 10:28	
Surrogates(s)					
1,2-Dichloroethane-d4	100.6	76-130	%	07/24/2003 10:28	
Toluene-d8	101.5	78-115	%	07/24/2003 10:28	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1

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Site: 1230 14th Street, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/07/25-1A.64	
MB: 2003/07/25-1A.64-049				Date Extracted: 07/25/2003 12:49	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/25/2003 12:49	
Benzene	ND	0.5	ug/L	07/25/2003 12:49	
Toluene	ND	0.5	ug/L	07/25/2003 12:49	
Ethylbenzene	ND	0.5	ug/L	07/25/2003 12:49	
Total xylenes	ND	1.0	ug/L	07/25/2003 12:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/25/2003 12:49	
Surrogates(s)					
1,2-Dichloroethane-d4	102.0	76-130	%	07/25/2003 12:49	
Toluene-d8	104.5	78-115	%	07/25/2003 12:49	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Site: 1230 14th Street, Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/07/26-1A.65
MB: 2003/07/26-1A.65-046		Date Extracted: 07/26/2003 09:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/26/2003 09:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/26/2003 09:46	
Benzene	ND	0.5	ug/L	07/26/2003 09:46	
Toluene	ND	0.5	ug/L	07/26/2003 09:46	
Ethylbenzene	ND	0.5	ug/L	07/26/2003 09:46	
Total xylenes	ND	1.0	ug/L	07/26/2003 09:46	
Surrogates(s)					
1,2-Dichloroethane-d4	89.9	76-130	%	07/26/2003 09:46	
Toluene-d8	101.2	78-115	%	07/26/2003 09:46	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/07/23-2A.65			
LCS	2003/07/23-2A.65-051		Extracted: 07/23/2003			Analyzed: 07/23/2003 20:51			
LCSD	2003/07/23-2A.65-013		Extracted: 07/23/2003			Analyzed: 07/23/2003 21:13			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.8	19.3	25	79.2	77.2	2.6	69-129	20		
Toluene	19.8	19.9	25	79.2	79.6	0.5	70-130	20		
Methyl tert-butyl ether (MTBE)	18.5	18.1	25	74.0	72.4	2.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	490	478	500	98.0	95.6		76-130			
Toluene-d8	525	526	500	105.0	105.2		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260FAB		
Laboratory Control Spike		Water		QC Batch # 2003/07/24-1D.64	
LCS	2003/07/24-1D.64-044	Extracted: 07/24/2003		Analyzed: 07/24/2003 09:44	
LCSD	2003/07/24-1D.64-006	Extracted: 07/24/2003		Analyzed: 07/24/2003 10:06	

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	18.8	19.5	25	75.2	78.0	3.7	69-129	20		
Toluene	20.2	20.0	25	80.8	80.0	1.0	70-130	20		
Methyl tert-butyl ether (MTBE)	21.6	24.6	25	86.4	98.4	13.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	513	539	500	102.6	107.8		76-130			
Toluene-d8	533	505	500	106.6	101.0		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260FAB		
Laboratory Control Spike		Water		QC Batch # 2003/07/25-1A.64	
LCS	2003/07/25-1A.64-004	Extracted:	07/25/2003	Analyzed:	07/25/2003 12:04
LCSD	2003/07/25-1A.64-026	Extracted:	07/25/2003	Analyzed:	07/25/2003 12:26

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	31.0	28.0	25	124.0	112.0	10.2	69-129	20		
Toluene	31.1	29.3	25	124.4	117.2	6.0	70-130	20		
Methyl tert-butyl ether (MTBE)	34.8	36.2	25	139.2	144.8	3.9	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	518	578	500	103.6	115.6		76-130			
Toluene-d8	526	512	500	105.2	102.4		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260FAB		
Laboratory Control Spike		Water		QC Batch # 2003/07/26-1A.65	
LCS	2003/07/26-1A.65-001	Extracted: 07/26/2003		Analyzed: 07/26/2003 09:01	
LCSD	2003/07/26-1A.65-023	Extracted: 07/26/2003		Analyzed: 07/26/2003 09:23	

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.7	23.4	25	90.8	93.6	3.0	65-165	20		
Benzene	26.6	26.6	25	106.4	106.4	0.0	69-129	20		
Toluene	26.7	27.1	25	106.8	108.4	1.5	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	451	462	500	90.2	92.4		76-130			
Toluene-d8	506	534	500	101.2	106.8		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report			
Prep(s):	5030B	Test(s):	8260FAB
Matrix Spike (MS / MSD)		Water	QC Batch # 2003/07/23-2A.65
MW-3 >> MS		Lab ID:	2003-07-0448 - 003
MS: 2003/07/23-2A.65-012	Extracted: 07/24/2003	Analyzed:	07/24/2003 00:12
		Dilution:	1.00
MSD: 2003/07/23-2A.65-034	Extracted: 07/24/2003	Analyzed:	07/24/2003 00:34
		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	19.3	21.8	ND	25	77.2	87.2	12.2	69-129	20		
Toluene	18.7	21.3	ND	25	74.8	85.2	13.0	70-130	20		
Methyl tert-butyl ether	17.6	20.5	ND	25	70.4	82.0	15.2	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	498	503		500	99.6	100.6		76-130			
Toluene-d8	530	523		500	106.0	104.6		78-115			

Severn Trent Laboratories, Inc.

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

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07/28/2003 16:07

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030714-RH1
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Received: 07/15/2003 16:00

Site: 1230 14th Street, Oakland

Batch QC Report			
Prep(s): 5030B	Test(s): 8260FAB		
Matrix Spike (MS / MSD)	Water	QC Batch # 2003/07/26-1A.65	
MW-4 >> MS		Lab ID:	2003-07-0448 - 004
MS: 2003/07/26-1A.65-002	Extracted: 07/26/2003	Analyzed:	07/26/2003 12:02
		Dilution:	1.00
MSD: 2003/07/26-1A.65-024	Extracted: 07/26/2003	Analyzed:	07/26/2003 12:24
		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	26.5	25.6	ND	25	106.0	102.4	3.5	69-129	20		
Toluene	26.5	25.0	ND	25	106.0	100.0	5.8	70-130	20		
Methyl tert-butyl ether	20.0	21.0	ND	25	80.0	84.0	4.9	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	423	446		500	84.6	89.2		76-130			
Toluene-d8	512	512		500	102.3	102.4		78-115			

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Legend and Notes

Analysis Flag

o

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

Result Flag

g

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

T0055

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be involved:

Karen Petryna

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

2003.07.0448

INCIDENT NUMBER (S&E ONLY)

9 7 0 8 8 2 5 0

S&E or CRMT NUMBER (TS/CRMT)

DATE: 7/14/03

PAGE: 1 of 2

LABORATORY COMPANY
Blaine Tech Services
 ADDRESS:
 680 Rogers Avenue, San Jose, CA 95112

LOG CODE
BTSS

SITE ADDRESS (Street and City):
1230 14th Street, Oakland

GLOBAL ID NO:
T0600101691

PROJECT CONTACT (Name and Title):
Don Gearhart

TOP DELIVERABLE TO (Responsible Party or Designer):
Ann Kreml

PHONE NO:
510-420-3335
 E-MAIL:
ShellOaklandEDF@cambria-env.com
 CONSULTANT PROJECT NO:
BTS # 630714-2-H1

TELEPHONE:
08-573-0555

FAX:
408-573-7771

E-MAIL:
lgearhart@blainetech.com

SAMPLER NAME(S) (Print):
Ryan Hamstedt

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

REQUESTED ANALYSIS

LA - RWQCS REPORT FORMAT USE AGENCY:
 FORMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDB IS NOT NEEDED

FIELD NOTES:
 Container/Preservative
 or PIQ Readings
 or Laboratory Notes

4.7

TEMPERATURE ON RECEIPT (°C)

ID OF KEY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (80218 - 8ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)
		DATE	TIME												
X	mw-1	7/14/03	1025	GW	3	X	X	X							
X	mw-2		1007			X	X	X							
X	mw-3		943			X	X	X							
X	mw-4		930			X	X	X							
X	mw-5		1159			X	X	X							
X	mw-6		1208			X	X	X							
X	mw-7		1223			X	X	X							
X	VW/mw-2		1048			X	X	X							
X	VW/mw-4		1106			X	X	X							
X	VW/AS-1		905			X	X	X							

Requested by (Signature):
Alex Tabriz

Received by (Signature):
Alex Tabriz

Date: 7-15-03 Time: 16:00
 Date: 7-15-03 Time: 17:30

CHIEF Chain of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

Karen Petryna

03-07-0448

INCIDENT NUMBER (S&E ONLY):

9 7 0 8 8 2 5 0

SAF or CRMT NUMBER (ITS/CRMT):

DATE: 7/14/03

PAGE: 2 of 2

CLIENT COMPANY: Inaie Tech Services
 LOG CODE: BTSS
 SITE ADDRESS (Street and City): 1230 14th Street, Oakland
 GLOBAL ID NO.: T0600101691
 BUSINESS ADDRESS: 880 Rogers Avenue, San Jose, CA 95112
 SOF DELIVERABLE TO (Responsible Party or Designer): Anni Kraml
 PHONE NO.: 510-420-3335
 E-MAIL: ShallOaklandEDF@cambria-env.com
 CONSULTANT PROJECT NO.: 030714-KH
 BTS #: 20401
 PROJECT CONTACT (If not by or for Report by): eon Gearhart
 E-EMAIL: gearhart@blainetech.com
 TURNAROUND TIME (BUSINESS DAYS): 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 SA - RWQCB REPORT FORMAT LIST AGENCY: _____
 ICIMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED
 Ryan Hanstedt

REQUESTED ANALYSIS

FIELD NOTES:
 Container/Preservative
 or PID Readings
 or Laboratory Notes:

AS SE VE #	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (0021B - 5ppb RL)	MTBE (0260B - 0.5ppb RL)	Oxygensates (S) by (0260B)	Ethanol (0260B)	Methanol	1,2-DCA (0260B)	EDB (0260B)	TPH - Diesel, Extractable (0015m)
		DATE	TIME												
X	VW/AS-3	7/14/03	020	6W	3	X	X	X							

TEMPERATURE ON RECEIPT C°

Requested by (Signature): [Signature]
 Received by (Signature): [Signature]
 Date: 7-15-03
 Time: 10:00
 Requested by (Signature): Alex Tabrizi
 Received by (Signature): [Signature] STL of
 Date: 7-15-03
 Time: 17:30
 Requested by (Signature):
 Received by (Signature):
 Date:
 Time:

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

WELL GAUGING DATA

Project # 030714-RH1 Date 7/14/03 Client Shell

Site 1230 14th St, 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 FOC	Pre-Purge DO	
mw-1	2					11.60	20.95	↓	0.6	
mw-2	2					10.67	21.75		0.5	
mw-3	2					10.98	18.86		0.4	
mw-4	2					10.86	19.32		3.9	
mw-5	4					11.39	19.75		0.5	
mw-6	4					11.83	19.65		1.8	
mw-7	4					12.29	19.71		0.4	
vw/mw-2	2					11.20	22.10		0.5	
vw/mw-4	2					10.90	18.45		0.5	
vw/AS-1	1	out of hole DO				11.62	19.64		1.8	
v-w/AS-3	1	out of hole DO				11.12	19.73		↓	2.0

* gauged w/ stinger in well

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-PH1	Site: 1230 14th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: mw-1	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 20.95	Depth to Water (DTW): 11.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.52	

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

$1.5 \text{ (Gals.)} \times 3 = 4.5 \text{ Gals.}$ 1 Case Volume Specified Volumes 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1019	67.0	6.5	1286	>200	1.5	slightly green, cloudy, odour
1021	66.1	6.6	1231	>200	3.0	cloudy, slight odour
1023	65.3	6.0	1239	124	4.5	turbid

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Date: 7/14/03 Sampling Time: 1028 Depth to Water: 12.43

Sample I.D.: mw-1 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: 0.6 mg/L	Post-purge: 0.3 mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: mw-2	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 21.75	Depth to Water (DTW): 10.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVT</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.89	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Water: Peristaltic Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{1.8 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 5.4 \text{ Gals. Calculated Volume}$	<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
958	68.8	6.7	776	>200	1.8	cloudy
1000	68.6	6.6	754	>200	3.6	"
1002	67.9	6.6	751	150	5.4	turbid

Did well dewater? Yes No Gallons actually evacuated: 5.4

Sampling Date: 7/14/03 Sampling Time: 1007 Depth to Water: 11.28

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

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

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

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

D.O. (if req'd): Pre-purge: 0.5 ^{mg/L} Post-purge: 0.9 ^{mg/L}

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

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/07
Well I.D.: mw-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 16.86	Depth to Water (DTW): 10.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.56	

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

1.3 (Gals.) X 3 = 3.9 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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
939	71.2	7.1	540	>200	1.3	brown, cloudy
941	69.1	6.8	377	>200	2.6	" "
943	69.6	6.7	862	193	3.9	turbid

Did well dewater? Yes No Gallons actually evacuated: 3.9

Sampling Date: 7/14/07 Sampling Time: 9:18 Depth to Water: 12.65

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):	<u>Pre-purge:</u> 0.9 mg/L	<u>Post-purge:</u> 0.3 mg/L	
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030719-241	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: mws-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 19.32	Depth to Water (DTW): 10.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.55	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other: WBS-100	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other:
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$\frac{1.4}{1} \text{ (Gals.)} \times 3 = 4.2 \text{ Gals.}$ I Case Volume Specified Volumes 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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
921	69.0	7.2	347	>200	1.4	brown, cloudy, etc
923	69.0	6.9	271	>200	7.0	" " "
925	69.0	6.9	291	>200	4.2	" " "

Did well dewater? Yes No Gallons actually evacuated: 4.2

Sampling Date: 7/14/03 Sampling Time: 9:30 Depth to Water: 11.50

Sample I.D.: mws-4 Laboratory: STL Other _____

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

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

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

D.O. (if req'd): Pre-purge: 3.9 mg/L Post-purge: 4.2 mg/L

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1250 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: mw-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.75	Depth to Water (DTW): 11.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.04	

Purge Method: Bailer Disposable Bailer <u>Positive Air Displacement</u> Electric Submersible	Water Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$5.4 \text{ (Gals.)} \times 3 = 16.2 \text{ Gals.}$ <p>1 Case Volume Specified Volumes Calculated Volume</p>	<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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
						Obstruction in well @ 10-12'. Use mfg pump
1122	70.9	6.8	1546	92	9.4	slight odor
1128	68.6	7.0	1596	150	10.8	to mild odor
1134	67.9	7.0	1576	152	16.2	" "

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 16.2	
Sampling Date: 7/14/03	Sampling Time: 1139	Depth to Water: 13.05
Sample I.D.: mw-5	Laboratory: <u>STL</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other:		
EB I.D. (if applicable): _____	Duplicate I.D. (if applicable): _____	
Analyzed for: TPH-G BTEX MTBE TPH-D Other:		
D.O. (if req'd): <u>Pre-purge:</u> 0.5 mg/L	<u>Post-purge:</u> 0.5 mg/L	
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: mw-6	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 19.65	Depth to Water (DTW): 11.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.39	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other:	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other:
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5.1 (Gals.) X 3 = 15.3 Gals. I Case Volume Specified Volumes 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
1158	67.2	6.8	735	73	6.0	clear
1159	65.8	6.7	652	>200	11.0	cloudy
1200	64.8	6.6	630	>200	16.0	"

Did well dewater? Yes No Gallons actually evacuated: 16.0

Sampling Date: 7/14/03 Sampling Time: 1208 Depth to Water: 13.30

Sample I.D.: mw-6 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: 1.8 mg/L Post-purge: 1.3 mg/L

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

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1230 14th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: mw-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.71	Depth to Water (DTW): 12.29
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.77	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <u>Electric Submersible</u>	Waterra Peristaltic Extraction Pump Other:	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other:
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$\frac{4.3 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = 14.4 \text{ Gals. Calculated Volume}$

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
1213	66.7	6.5	880	62	9.0	Clear
1214	69.2	6.6	717	73	10.0	"
1215	69.2	6.5	743	2200	15.0	cloudy

Did well dewater? Yes No Gallons actually evacuated: 15.0

Sampling Date: 7/14/03 Sampling Time: 1223 Depth to Water: 13.75

Sample I.D.: mw-7 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): <u>Pre-purge:</u> 0.4 mg/L	Post-purge: 0.2 mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: VV/mw-2	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 22.10	Depth to Water (DTW): 11.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.38	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other:	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other:
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1.7 (Gals.) X 3 = 5.1 Gals. Case Volume Specified Volumes 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1039	69.0	6.7	925	>200	1.7	grey cloudy, slight odor
1041	67.7	6.6	897	7200	3.4	cloudy, slight odor
1043	68.0	6.6	881	>200	5.1	" " " "

Did well dewater? Yes No Gallons actually evacuated: 5.1

Sampling Date: 7/14/03 Sampling Time: ~~1043~~ 1043 Depth to Water: 12.70

Sample I.D.: VV/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: 0.5 mg/L	Post-purge: 0.5 mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RN1	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/07
Well I.D.: v/w/mw-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 18.45	Depth to Water (DTW): 10.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSL) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.41	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: (Bailer) Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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1.2 (Gals.) X 3 = 3.6 Gals. Case Volume Specified Volumes 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
1057	72.1	6.6	1127	130	1.2	blackish, odor
1059	72.0	6.6	1161	96	2.4	" "
1101	71.1	6.6	1130	41	3.6	clear, odor

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 3.6	
Sampling Date: 7/14/07	Sampling Time: 1106	Depth to Water: 12.02
Sample I.D.: v/w/mw-4	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: 0.5 mg/L	Post-purge: 0.4 mg/L	
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-EN1	Site: 1230 19 th St, Oakland
Sampler: Ryan H	Date: 7/14/03
Well I.D.: VW/AS-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 1164	Depth to Water (DTW): 1162
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.22	

Purge Method:	Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$$\frac{0.3 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{0.9}{\text{Calculated Volume}} \text{ Gals.}$$

1 Case 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
856	69.7	6.8	1486	>200	0.3	gray, cloudy, odor
858	67.5	6.7	1406	1200	0.6	
900	67.0	6.7	1379	>200	1.0	

Did well dewater? Yes No Gallons actually evacuated: 1.0

Sampling Date: 7/14/03 Sampling Time: 9:05 Depth to Water: 11.91

Sample I.D.: VW/AS-1 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): 1.8 mg/L	(Post-purge): 1.9 mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SHELL WELL MONITORING DATA SHEET

BTS #: 030714-RH1	Site: 1230 14 th St, Oakland
Sampler: Ryan H	Date: 7/14/07
Well I.D.: VW/AS-3	Well Diameter: 2 3 4 6 8 <u>1</u>
Total Well Depth (TD): 19.73	Depth to Water (DTW): 11.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.84	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other 3/8" tubing w/ check valve Dedicated Tubing
 Other: 5/8" tubing w/ check valve

$0.3 \text{ (Gals.)} \times 3 = 0.9 \text{ Gals.}$ I Case Volume Specified Volumes 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
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Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
817	66.3	6.4	1146	35	0.3	clear, clear
819	66.3	6.4	1153	59	0.6	"
821	66.1	6.5	1167	71	1.0	"

Did well dewater? Yes No Gallons actually evacuated: 1.0

Sampling Date: 7/14/07 Sampling Time: 8:21a Depth to Water: 11.31

Sample I.D.: VW/AS-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): <u>Pre-purge:</u> 2.0 ^{mg/L}	D.O. (if req'd): <u>Post-purge:</u> 2.2 ^{mg/L}
O.R.P. (if req'd): <u>Pre-purge:</u> _____ mV	O.R.P. (if req'd): <u>Post-purge:</u> _____ mV