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January 19, 2004

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

Subject: Shell-branded Service Station
610 Market Street
Oakland, California

Alameda County

JAN 23 2004

Environmental Health

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Fourth 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

Ke petryna@shellopus.com

Karen Petryna
Sr. Environmental Engineer

January 19, 2004

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

Re: Fourth Quarter 2003 Monitoring Report
Shell-branded Service Station
610 Market Street
Oakland, California
Incident #99895750
Cambria Project #246-0594-002

Alameda County

JAN 23 2004

Environmental Health



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. The site is located on Market Street between Sixth and Seventh Streets in Oakland, California (Figures 1 and 2).

REMEDIATION SUMMARY

Mobile Dual-Phase Vacuum Extraction Treatment (DVE): From March to October 2000, Cambria coordinated mobile DVE from wells MW-2 and MW-3. Mobile DVE utilized a vacuum truck for extraction and off-hauling of groundwater. Carbon absorption vessels were used to abate extracted vapors. DVE was discontinued in October 2000 due to low groundwater-extraction volumes.

DVE and Soil Vapor Extraction (SVE) Pilot Test: On March 22, 2001, Cambria performed a short-term (1-day) DVE test on well MW-3 and a short-term (1-day) SVE test on tank backfill well T-1. The tests were conducted using an internal combustion engine as the extraction and abatement device.

SVE Pilot Test: Between October 8 and 12, 2001, Cambria conducted a long-term (5-day) SVE pilot test on tank backfill well T-1. The test was conducted using an internal combustion engine as the extraction and abatement device.

**Cambria
Environmental
Technology, Inc.**

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

Mobile Groundwater Extraction (GWE): As recommended in the August 29, 2001 *Site Conceptual Model and Pilot Test Report*, Cambria began coordinating weekly GWE from well MW-3 using a vacuum truck in August 2001. Beginning in January 2002, well MW-2 was added to the weekly GWE schedule at the site. Mobile GWE was discontinued on January 8, 2003 in anticipation of starting the GWE system.

GWE System: As recommended in the August 19, 2002 *Interim Remedial Action Plan*, a GWE system was installed to address the elevated methyl tertiary butyl ether (MTBE) concentrations detected in groundwater beneath the site. The GWE system was started on February 18, 2003.



The following table summarizes the estimated total petroleum hydrocarbon as gasoline (TPHg), benzene, and MTBE mass removed by application of the remedial methods discussed:

Table A - Mass Removal Summary

Method	Period	TPHg (pounds)		Benzene (pounds)		MTBE (pounds)	
		Vapor-phase	Dissolved-phase	Vapor-phase	Dissolved-phase	Vapor-phase	Dissolved-phase
Mobile DVE	03/15/00 - 10/27/00	35.1	0.537	1.49	0.024	5.03	10.6
DVE/SVE Test	03/22/01	1.96	0.032	0.009	0	2.08	1.25
SVE Test	10/08/01 - 10/12/01	15.8	NA	1.33	NA	35.9	NA
Mobile GWE	03/22/01 - 01/28/03	NA	2.84	NA	0.063	NA	60.0
GWE System	02/18/03 - 01/09/04	NA	44.6	NA	0.342	NA	128.8
Subtotal (per phase)		52.9	48.0	2.83	0.429	43.0	200.6
Total Mass Removed		110.9 pounds		3.26 pounds		243.6 pounds	

FOURTH QUARTER 2003 ACTIVITIES

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

Remedial Activities: Cambria started operation of the fixed GWE system on February 18, 2003. Wells MW-2, MW-3, MW-6, MW-7, and MW-8 are used as extraction wells. System analytical data are summarized in Table 1. Groundwater level measurements and flow meter readings have been recorded at various times of operation to assess system production. Table 2 summarizes the field data and system operation and calculates mass removal. Based on the field data, the GWE system operated at an average flow rate of approximately 2.57 gallons per minute.

As of January 9, 2004, a total of 941,666 gallons of groundwater has been extracted. A total of 44.6 pounds of TPHg, 0.342 pounds of benzene, and 128.8 pounds of MTBE has been recovered. Mass removal data are presented in Table 2.

ANTICIPATED FIRST QUARTER 2004 ACTIVITIES

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

Remedial Activities: Per Cambria's standard operating procedures and East Bay Municipal Utilities District (EBMUD) treatment-system monitoring requirements, Cambria will perform routine operation and maintenance of the GWE system. Cambria will monitor concentration trends and GWE system effectiveness. Cambria will prepare a quarterly discharge compliance report in accordance with the EBMUD wastewater discharge permit.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Dan Lescure at (510) 420-3306 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



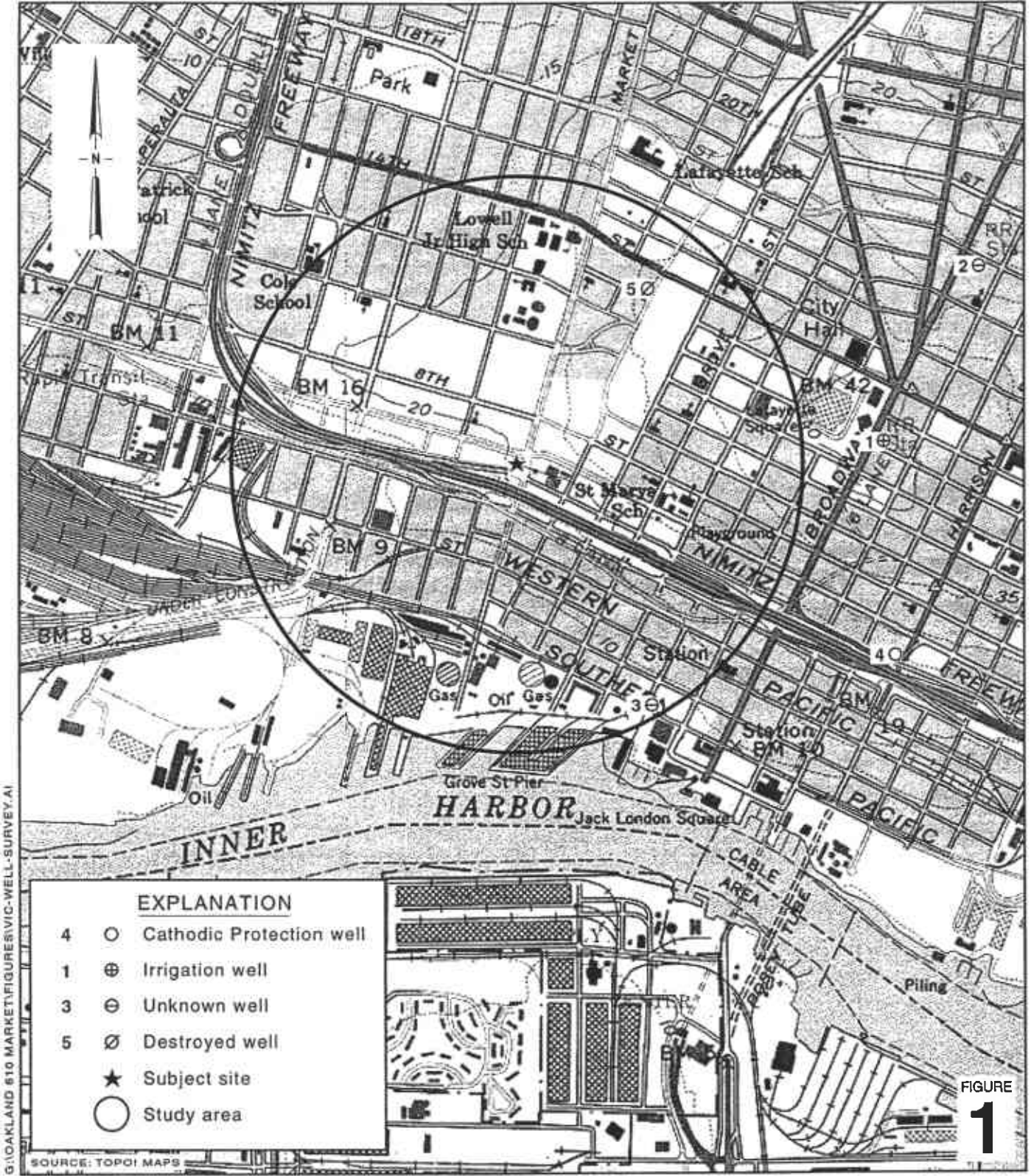
Dan Lescure
Senior Project Engineer

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



- Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map
- Tables: 1 - Groundwater Extraction – System Analytical Data
 2 - Groundwater Extraction – Operation and Mass Removal Data
- Attachment: A - Blaine Groundwater Monitoring Report and Field Notes
- cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
 Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595
 Roger Schmidt, 1224 Contra Costa Dr., El Cerrito, CA 94530

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SOURCE: TOPOI MAPS

Shell-branded Service Station
 610 Market Street
 Oakland, California
 Incident #98995750



C A M B R I A

**Vicinity / Area Well
 Survey Map**
 1/2 Mile Radius

01/19/04
G:\OAKLAND\610MARKET\FIGURE\140M03.A1

EXPLANATION

- MW-6 Extraction well location
- MW-1 Monitoring well location
- SB-A Geoprobe boring (3/31/98)
- SB-D Soil boring location (4/17/02)
- T1 Tank backfill well (dry)
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above msl, approximately located; dashed where inferred

- | Well | ELEV | Benzene | MTBE |
|------|--|--|------|
| | Groundwater elevation, in feet above msl | | |
| | | Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260 | |
- Storm Drain line (SD)
 - Sanitary Sewer line (SS)
 - Water Main (W)
 - Gas line (G)
 - Electrical line (E)
 - Flow direction
 - FL = 5.6 Flowline elevation, in feet above mean sea level (msl)
 - MH Manhole
 - Groundwater extraction system piping

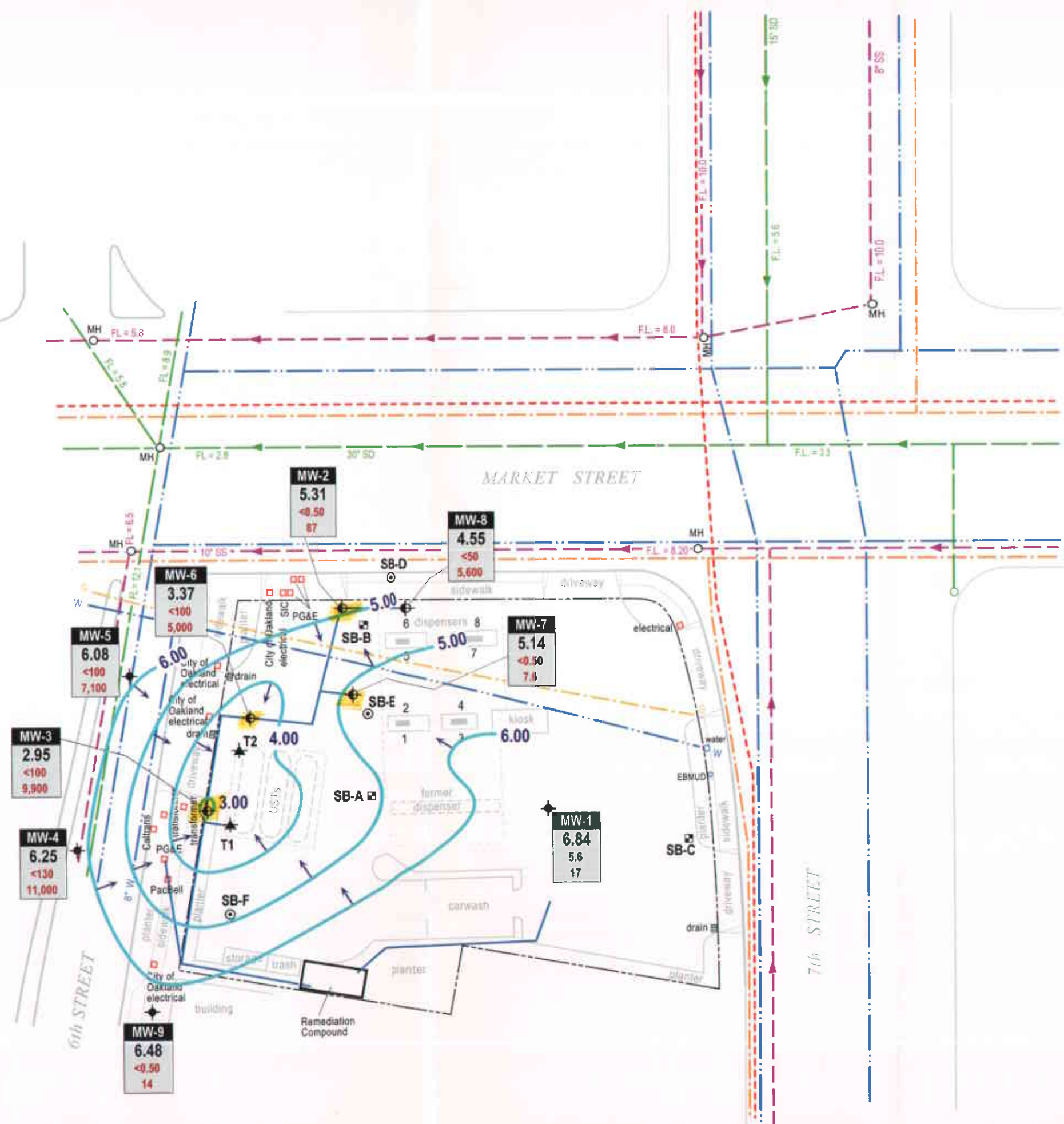


FIGURE 2

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc (ppb)	TPHg Conc. (ppb)	Benzene Conc (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc (ppb)
02/18/2003	<20,000	270	93,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
02/25/2003	<20,000	<200	74,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/11/2003	<10,000	<100	47,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/25/2003	<10,000	<100	38,000	<250	<2.5	<25	<50	<0.50	<5.0	<50	<0.50	<5.0
04/07/2003	30,000	<250	33,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
04/22/2003	<25,000	<250	26,000	<50	<0.50	2.6	<50	<0.50	<0.50	<50	<0.50	<0.50
05/01/2003	<10,000	<100	25,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
05/20/2003	<10,000	<100	17,000	<500	<5.0	610	640	<0.50	<0.5	<50	<0.50	<0.5
06/03/2003	<10,000	<100	15,000	<5,000	<50	4000	<50	<0.50	<0.5	<50	<0.50	<0.5
06/17/2003	<10,000	<100	17,000	<25,000	<250	16,000	<50	<0.50	<5.0	<50	<0.50	<5.0
07/28/2003	<5,000	<50	7,100	<250	<2.5	420	<50	<0.50	<0.50	<50	<0.50	<0.50
08/11/2003	<2,500	<25	4,900	<250	<2.5	280	<50	<0.50	<0.50	<50	<0.50	<0.50
08/28/2003	<2,500	<25	7,700	<100	<1.0	260	<50	<0.50	<0.50	<50	<0.50	<0.50
09/08/2003	<2,500	<25	6,600	<50	<0.50	140	<50	<0.50	<0.50	<50	<0.50	<0.50
09/22/2003	<5,000	<50	5,700	<250	<2.5	230	<50	<0.50	<0.50	<50	<0.50	<0.50
10/08/2003	<2,500	<25	3,100	<50	<0.50	140	<50	<0.50	<0.50	<50	<0.50	<0.50
10/21/2003	<5,000	<50	3,800	<250	<2.5	180	<50	<0.50	<0.50	<50	<0.50	<0.50
11/06/2003	<1,000	<10	3,500	<50	<0.50	150	<50	<0.50	<0.50	<50	<0.50	<0.50
12/05/2003	<2,000	<20	3,400	<50	<0.50	130	<50	<0.50	<0.50	<50	<0.50	<0.50

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc (ppb)	TPHg Conc. (ppb)	Benzene Conc (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc (ppb)

Conc. = Concentration

ppb = parts per billion, equivalent to µg/l

TPHg, benzene, and MTBE analyzed by EPA Method 8260B

Table 2: Groundwater Extraction - Operation and Mass Removal Data, Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Site Visit (mm/dd/yy)	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg			Benzene			MTBE				
						TPHg Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)		
02/18/03	0.0	100	0	0.00	0	<20,000	0.00000	0.00000	270	0.00000	0.00000	93,000	0.00000	0.00000		
02/18/03	3.5	1,024	924	4.40	924		0.07710	0.07710		0.00208	0.00208		0.71705	0.71705		
02/25/03	140.2	30,312	29,288	3.57	30,212	<20,000	2.44390	2.52100	<200	0.02444	0.02652	74,000	18.08482	18.80187		
03/11/03	475.8	84,666	54,354	2.70	84,566	<10,000	2.26775	4.78874	<100	0.02268	0.04920	47,000	21.31681	40.11868		
03/13/03	524.0	92,030	7,364	2.55	91,930		0.30724	5.09598		0.00307	0.05227		2.88805	43.00673		
03/25/03	527.0	92,840	810	4.50	92,740	<10,000	0.03379	5.12978	<100	0.00034	0.05261	38,000	0.25684	43.26357		
04/07/03	838.6	142,754	49,914	2.67	142,654	30,000	12.49501	17.62478	<250	0.05206	0.10467	33,000	13.74451	57.00807		
04/14/03	985.4	165,205	22,451	2.55	165,105		5.62017	23.24496		0.02342	0.12809		6.18219	63.19027		
04/22/03	1,184.1	197,360	32,155	2.70	197,260	<25,000	3.35391	26.59887	<250	0.03354	0.16163	26,000	6.97613	70.16640		
04/29/03	1,305.4	216,450	19,090	2.62	216,350		1.99117	28.59004		0.01991	0.18154		4.14164	74.30804		
05/01/03	1,351.3	223,850	7,400	2.69	223,750	<10,000	0.30874	28.89878	<100	0.00309	0.18463	25,000	1.54371	75.85174		
05/20/03	1,783.0	291,620	67,770	2.62	291,520	<10,000	2.82749	31.72626	<100	0.02827	0.21290	17,000	9.61345	85.46519		
06/03/03	2,122.1	341,643	50,023	2.46	341,543	<10,000	2.08705	33.81331	<100	0.02087	0.23377	15,000	6.26115	91.72634		
06/17/03	2,456.1	388,001	46,358	2.31	387,901	<10,000	1.93414	35.74745	<100	0.01934	0.25311	17,000	6.57607	98.30241		
06/30/03	2,766.0	429,880	41,879	2.25	429,780		1.74727	37.49472		0.01747	0.27059		5.94071	104.24311		
07/14/03	3,095.9	473,549	43,669	2.21	473,449		1.82195	39.31667		0.01822	0.28881		6.19462	110.43774		
07/28/03	3,423.7	514,826	41,277	2.10	514,726	<5,000	0.86107	40.17774	<50	0.00861	0.29742	7,100	2.44545	112.88319		
08/11/03	3,761.9	545,750	30,924	1.52	545,650	<2,500	0.32255	40.50029	<25	0.00323	0.30064	4,900	1.26440	114.14759		
08/28/03	4,171.0	595,525	49,775	2.03	595,425	<2,500	0.51918	41.01947	<25	0.00519	0.30583	7,700	3.19812	117.34571		
09/08/03	4,435.4	626,720	31,195	1.97	626,620	<2,500	0.32538	41.34485	<25	0.00325	0.30909	6,600	1.71799	119.06371		
09/22/03	4,769.9	665,449	38,729	1.93	665,349	<5,000	0.80792	42.15277	<50	0.00808	0.31717	5,700	1.84206	120.90577		
10/08/03	5,084.6	701,104	35,655	1.89	701,004	<2,500	0.37190	42.52466	<25	0.00372	0.32089	3,100	0.92231	121.82807		
10/21/03	5,396.7	735,644	34,540	1.84	735,544	<5,000	0.72054	43.24520	<50	0.00721	0.32809	3,800	1.09521	122.92329		
11/06/03	5,785.7	778,218	42,574	1.82	778,118	<1,000	0.17763	43.42283	<10	0.00178	0.32987	3,500	1.24338	124.16667		
11/19/03	6,097.1	810,223	32,005	1.71	810,123		0.13353	43.55636		0.00134	0.33120		0.93471	125.10139		
12/05/03	6,481.6	849,610	39,387	1.71	849,510	<2,000	0.32866	43.88502	<20	0.00329	0.33449	3,400	1.11744	126.21883		
12/23/03	6,909.0	898,595	48,985	1.91	898,495		0.40875	44.29376		0.00409	0.33858		1.38974	127.60857		
01/02/04	7,057.2	917,835	19,240	2.16	917,735		0.16055	44.45431		0.00161	0.34018		0.54585	128.15443		
01/09/04	7,170.7	941,766	23,931	3.51	941,666		0.19969	44.65400		0.00200	0.34218		0.67894	128.83337		
Total Extracted Volume:					941,666	Total Pounds Removed:			44.65400	Total Pounds Removed:			0.34218	Total Pounds Removed:		128.83337
Average Operational Flow Rate:					2.57	Total Gallons Removed:			7,33069	Total Gallons Removed:			0.04713	Total Gallons Removed:		20,96430

Table 2: Groundwater Extraction - Operation and Mass Removal Data, Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Site Visit (mm/dd/yy)	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg			Benzene			MTBE		
						TPHg Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = Parts per billion, equivalent to $\mu\text{g/L}$

$\mu\text{g/L}$ = Micrograms per liter

L = Liter

gal = Gallon

g = Gram

Mass removed based on the formula: volume extracted (gal) x Concentration ($\mu\text{g/L}$) x ($\text{g}/10^6\mu\text{g}$) x (pound/453.6g) x (3.785 L/gal)

When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.

Volume removal data based on the formula: mass (pounds) x (density)⁻¹ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)

Density inputs: TPHg = 0.73 g/cc, TPHd = 0.87 g/cc, MTBE = 0.74 g/cc

TPHg, BTEX, and MTBE analyzed by EPA Method 8260B

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES, INC.



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

December 15, 2003

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

Fourth Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
610 Market Street
Oakland, CA

Monitoring performed on November 24, 2003

Groundwater Monitoring Report 031124-JP-1

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

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 Sheet

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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market 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)
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MW-1	12/17/1998	2,200	20	<10	110	420	<50	NA	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	NA	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	NA	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	NA	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49.1	29.3	NA	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	NA	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	NA	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	NA	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	NA	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9.12	<25.0	NA	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	NA	110	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	NA	130	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	NA	98	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	NA	50	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	NA	49	21.70	13.57	8.13
MW-1	09/09/2002	3,600	150	44	200	590	NA	54	21.70	14.05	7.65
MW-1	12/12/2002	2,200	130	14	120	310	NA	46	21.70	14.20	7.50
MW-1	02/26/2003	580	30	2.9	25	48	NA	27	21.70	13.57	8.13
MW-1	04/15/2003	NA	NA	NA	NA	NA	NA	NA	21.70	13.67	8.03
MW-1	06/13/2003	440	18	6.1	33	88	NA	24	21.70	13.85	7.85
MW-1	09/26/2003	54	3.8	0.51	4.7	7.5	NA	11	21.70	14.63	7.07
MW-1	11/24/2003	120	5.6	0.87	8.4	20	NA	17	21.70	14.86	6.84

MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	NA	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	NA	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	NA	19.61	12.26	7.35

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market 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)
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	NA	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	NA	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	NA	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	NA	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	NA	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	NA	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	NA	19.61	11.10	8.51
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	NA	4,200	19.61	12.40	7.21
MW-2	09/12/2001	<2,000	120	<20	<20	<20	NA	17,000	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	NA	3,000	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,100	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,000	19.61	11.95	7.66
MW-2	09/09/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	740	19.62	12.38	7.24
MW-2	12/12/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	1,000	19.62	12.40	7.22
MW-2	02/26/2003	<500	<5.0	<5.0	<5.0	<5.0	NA	1,600	19.62	12.69	6.93
MW-2	04/15/2003	NA	NA	NA	NA	NA	NA	NA	19.62	12.81	6.81
MW-2	06/13/2003	<500	<5.0	<5.0	<5.0	<10	NA	790	19.62	12.65	6.97
MW-2	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	250	18.20	12.95	5.25
MW-2	11/24/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	87	18.20	12.89	5.31
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000a	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000a	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	19.05	10.00	9.05

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market 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)
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000a	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000a	403,000a	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	NA	610,000	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	NA	390,000	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	NA	290,000	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	NA	160,000	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	NA	340,000	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	NA	290,000	19.05	11.50	7.55
MW-3	09/09/2002	<20,000	<200	<200	<200	<200	NA	230,000	19.06	11.92	7.14
MW-3	12/12/2002	<50,000	<200	<200	<200	<500	NA	190,000	19.06	10.95	8.11
MW-3	02/26/2003	<25,000	<250	<250	<250	<250	NA	210,000	19.06	15.01	4.05
MW-3	04/15/2003	NA	NA	NA	NA	NA	NA	NA	19.06	15.12	3.94
MW-3	06/13/2003	<25,000	<250	<250	<250	<500	NA	27,000	19.06	15.25	3.81
MW-3	09/26/2003	<10,000	<100	<100	<100	<200	NA	15,000	18.08	16.65 c	NA
MW-3	11/24/2003	<10,000	<100	<100	<100	<200	NA	9,900	18.08	15.13	2.95
MW-4	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	10.64	NA
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	NA	4,600	NA	10.64	NA
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	NA	4,800	NA	10.61	NA
MW-4	09/09/2002	Unable to sample		NA	NA	NA	NA	NA	18.03	11.07	6.96
MW-4	09/18/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,000	18.03	11.15	6.88
MW-4	12/12/2002	<100	<1.0	<1.0	<1.0	<1.0	NA	370	18.03	11.13	6.90
MW-4	02/26/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.03	10.61	7.42
MW-4	04/15/2003	NA	NA	NA	NA	NA	NA	NA	18.03	10.73	7.30

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market 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)
MW-4	06/13/2003	180 b	<0.50	110	<0.50	<1.0	NA	2.3	18.03	10.88	7.15
MW-4	09/26/2003	<5,000	<50	<50	<50	<100	NA	13,000	18.03	11.58	6.45
MW-4	11/24/2003	<13,000	<130	<130	<130	<250	NA	11,000	18.03	11.78	6.25
MW-5	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	10.40	NA
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	NA	17,000	NA	10.41	NA
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	NA	15,000	NA	10.36	NA
MW-5	09/09/2002	Unable to sample		NA	NA	NA	NA	NA	17.78	10.82	6.96
MW-5	09/18/2002	<2,500	<25	<25	<25	<25	NA	16,000	17.78	10.81	6.97
MW-5	12/12/2002	<2,500	<25	<25	<25	<25	NA	13,000	17.78	10.83	6.95
MW-5	02/26/2003	<2,000	<20	<20	<20	<20	NA	7,500	17.78	10.57	7.21
MW-5	04/15/2003	NA	NA	NA	NA	NA	NA	NA	17.78	10.69	7.09
MW-5	06/13/2003	<2,500	<25	<25	<25	<50	NA	4,400	17.78	10.82	6.96
MW-5	09/26/2003	<2,500	<25	<25	<25	<50	NA	4,700	17.78	11.49	6.29
MW-5	11/24/2003	<10,000	<100	<100	<100	<200	NA	7,100	17.78	11.70	6.08
MW-6	03/28/2003	Well inaccessible		NA	NA	NA	NA	NA	18.10	NA	NA
MW-6	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.10	13.80	4.30
MW-6	04/15/2003	14,000	<250	<250	<250	<500	NA	41,000	18.10	15.05	3.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	NA	27,000	18.10	14.42	3.68
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	NA	11,000	18.05	18.35 c	NA
MW-6	11/24/2003	<10,000	<100	<100	<100	<200	NA	5,000	18.05	14.68	3.37
MW-7	03/28/2003	Well inaccessible		NA	NA	NA	NA	NA	19.16	NA	NA
MW-7	04/07/2003	NA	NA	NA	NA	NA	NA	NA	19.16	13.85	5.31
MW-7	04/15/2003	6,000	<100	<100	<100	<200	NA	19,000	19.16	13.95	5.21

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market 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)
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	NA	5,700	19.16	13.92	5.24
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	110	19.13	13.85	5.28
MW-7	11/24/2003	<50	<0.50	0.59	<0.50	1.7	NA	7.6	19.13	13.99	5.14
MW-8	03/28/2003	Well inaccessible		NA	NA	NA	NA	NA	18.72	NA	NA
MW-8	04/07/2003	NA	NA	NA	NA	NA	NA	NA	18.72	14.13	4.59
MW-8	04/15/2003	890	29	22	15	71	NA	430	18.72	14.10	4.62
MW-8	06/13/2003	NA	NA	NA	NA	NA	NA	NA	18.72	13.94	4.78
MW-8	09/26/2003	<250	55	51	33	140	NA	330	18.71	14.21	4.50
MW-8	11/24/2003	<5,000	<50	<50	<50	<100	NA	5,600	18.71	14.16	4.55
MW-9	03/28/2003	NA	NA	NA	NA	NA	NA	NA	18.78	11.19	7.59
MW-9	04/15/2003	420	<2.5	<2.5	<2.5	6.3	NA	37	18.78	11.24	7.54
MW-9	06/13/2003	290 b	<0.50	<0.50	<0.50	2.6	NA	34	18.78	11.39	7.39
MW-9	09/26/2003	540 b	<0.50	<0.50	<0.50	9.2	NA	21	18.78	12.12	6.66
MW-9	11/24/2003	650 d	<0.50	<0.50	<0.50	6.3	NA	14	18.78	12.30	6.48

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market 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)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8020.

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 = Sample was analyzed outside the EPA recommended holding time.

b = Hydrocarbon reported does not match the laboratory standard.

c = Measurement is depth to top of pump; unable to reach water with sounder.

d = Sample contains discrete peaks in addition to gasoline.

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998, by Virgil Chavez Land Surveying of Vallejo, California.

Wells MW-6 through MW-9 surveyed April 10, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

December 10, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 031184-JP1
Project: 98995750
Site: 610 Market Street, Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 11/25/2003 14:01
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
01/09/2004 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: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/24/2003 11:25	Water	1
MW-2	11/24/2003 11:40	Water	2
MW-3	11/24/2003 13:00	Water	3
MW-4	11/24/2003 10:55	Water	4
MW-5	11/24/2003 10:25	Water	5
MW-6	11/24/2003 11:50	Water	6
MW-7	11/24/2003 11:45	Water	7
MW-8	11/24/2003 12:50	Water	8
MW-9	11/24/2003 11:10	Water	9

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2003-11-0863-1
Sampled:	11/24/2003 11:25	Extracted:	12/2/2003 23:05
Matrix:	Water	QC Batch#:	2003/12/02-28.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	120	50	ug/L	1.00	12/02/2003 23:05	
Benzene	5.6	0.50	ug/L	1.00	12/02/2003 23:05	
Toluene	0.87	0.50	ug/L	1.00	12/02/2003 23:05	
Ethylbenzene	8.4	0.50	ug/L	1.00	12/02/2003 23:05	
Total xylenes	20	1.0	ug/L	1.00	12/02/2003 23:05	
Methyl tert-butyl ether (MTBE)	17	0.50	ug/L	1.00	12/02/2003 23:05	
Surrogate(s)						
1,2-Dichloroethane-d4	99.1	76-130	%	1.00	12/02/2003 23:05	
Toluene-d8	101.1	78-115	%	1.00	12/02/2003 23:05	

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2003-11-0863 - 2
Sampled:	11/24/2003 11:40	Extracted:	12/2/2003 23:27
Matrix:	Water	QC Batch#:	2003/12/02-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/02/2003 23:27	
Benzene	ND	0.50	ug/L	1.00	12/02/2003 23:27	
Toluene	ND	0.50	ug/L	1.00	12/02/2003 23:27	
Ethylbenzene	ND	0.50	ug/L	1.00	12/02/2003 23:27	
Total xylenes	ND	1.0	ug/L	1.00	12/02/2003 23:27	
Methyl tert-butyl ether (MTBE)	87	0.50	ug/L	1.00	12/02/2003 23:27	
Surrogate(s)						
1,2-Dichloroethane-d4	102.4	76-130	%	1.00	12/02/2003 23:27	
Toluene-d8	106.7	78-115	%	1.00	12/02/2003 23:27	

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2003-11-0863 - 3
Sampled:	11/24/2003 13:00	Extracted:	12/3/2003 00:33
Matrix:	Water	QC Batch#:	2003/12/02-2B.62
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	12/03/2003 00:33	
Benzene	ND	100	ug/L	200.00	12/03/2003 00:33	
Toluene	ND	100	ug/L	200.00	12/03/2003 00:33	
Ethylbenzene	ND	100	ug/L	200.00	12/03/2003 00:33	
Total xylenes	ND	200	ug/L	200.00	12/03/2003 00:33	
Methyl tert-butyl ether (MTBE)	9900	100	ug/L	200.00	12/03/2003 00:33	
Surrogate(s)						
1,2-Dichloroethane-d4	104.8	76-130	%	200.00	12/03/2003 00:33	
Toluene-d8	98.6	78-115	%	200.00	12/03/2003 00:33	

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: 031184-JP1
98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2003-11-0863-4
Sampled:	11/24/2003 10:55	Extracted:	12/3/2003 00:56
Matrix:	Water	QC Batch#:	2003/12/02-2B.62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	13000	ug/L	250.00	12/03/2003 00:56	
Benzene	ND	130	ug/L	250.00	12/03/2003 00:56	
Toluene	ND	130	ug/L	250.00	12/03/2003 00:56	
Ethylbenzene	ND	130	ug/L	250.00	12/03/2003 00:56	
Total xylenes	ND	250	ug/L	250.00	12/03/2003 00:56	
Methyl tert-butyl ether (MTBE)	11000	130	ug/L	250.00	12/03/2003 00:56	
Surrogate(s)						
1,2-Dichloroethane-d4	95.0	76-130	%	250.00	12/03/2003 00:56	
Toluene-d8	97.0	78-115	%	250.00	12/03/2003 00:56	

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: 031184-JP1
98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2003-11-0863-5
Sampled:	11/24/2003 10:25	Extracted:	12/3/2003 01:18
Matrix:	Water	QC Batch#:	2003/12/02-2B.62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	12/03/2003 01:18	
Benzene	ND	100	ug/L	200.00	12/03/2003 01:18	
Toluene	ND	100	ug/L	200.00	12/03/2003 01:18	
Ethylbenzene	ND	100	ug/L	200.00	12/03/2003 01:18	
Total xylenes	ND	200	ug/L	200.00	12/03/2003 01:18	
Methyl tert-butyl ether (MTBE)	7100	100	ug/L	200.00	12/03/2003 01:18	
Surrogate(s)						
1,2-Dichloroethane-d4	102.0	76-130	%	200.00	12/03/2003 01:18	
Toluene-d8	106.2	78-115	%	200.00	12/03/2003 01:18	

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: 031184-JP1
98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-6	Lab ID:	2003-11-0863-6
Sampled:	11/24/2003 11:50	Extracted:	12/3/2003 01:40
Matrix:	Water	QC Batch#:	2003/12/02-2B.62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	12/03/2003 01:40	
Benzene	ND	100	ug/L	200.00	12/03/2003 01:40	
Toluene	ND	100	ug/L	200.00	12/03/2003 01:40	
Ethylbenzene	ND	100	ug/L	200.00	12/03/2003 01:40	
Total xylenes	ND	200	ug/L	200.00	12/03/2003 01:40	
Methyl tert-butyl ether (MTBE)	5000	100	ug/L	200.00	12/03/2003 01:40	
Surrogate(s)						
1,2-Dichloroethane-d4	97.1	76-130	%	200.00	12/03/2003 01:40	
Toluene-d8	105.2	78-115	%	200.00	12/03/2003 01:40	

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

12/06/2003 14:04

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-7	Lab ID:	2003-11-0863-7
Sampled:	11/24/2003 11:45	Extracted:	12/3/2003 02:02
Matrix:	Water	QC Batch#:	2003/12/02-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/03/2003 02:02	
Benzene	ND	0.50	ug/L	1.00	12/03/2003 02:02	
Toluene	0.59	0.50	ug/L	1.00	12/03/2003 02:02	
Ethylbenzene	ND	0.50	ug/L	1.00	12/03/2003 02:02	
Total xylenes	1.7	1.0	ug/L	1.00	12/03/2003 02:02	
Methyl tert-butyl ether (MTBE)	7.6	0.50	ug/L	1.00	12/03/2003 02:02	
Surrogate(s)						
1,2-Dichloroethane-d4	96.0	76-130	%	1.00	12/03/2003 02:02	
Toluene-d8	101.8	78-115	%	1.00	12/03/2003 02:02	

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-8	Lab ID:	2003-11-0863 - 8
Sampled:	11/24/2003 12:50	Extracted:	12/3/2003 02:24
Matrix:	Water	QC Batch#:	2003/12/02-2B.62
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	12/03/2003 02:24	
Benzene	ND	50	ug/L	100.00	12/03/2003 02:24	
Toluene	ND	50	ug/L	100.00	12/03/2003 02:24	
Ethylbenzene	ND	50	ug/L	100.00	12/03/2003 02:24	
Total xylenes	ND	100	ug/L	100.00	12/03/2003 02:24	
Methyl tert-butyl ether (MTBE)	5600	50	ug/L	100.00	12/03/2003 02:24	
Surrogate(s)						
1,2-Dichloroethane-d4	101.9	76-130	%	100.00	12/03/2003 02:24	
Toluene-d8	98.7	78-115	%	100.00	12/03/2003 02:24	

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: 031184-JP1
98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-9	Lab ID:	2003-11-0863 - 9
Sampled:	11/24/2003 11:10	Extracted:	12/3/2003 11:30
Matrix:	Water	QC Batch#:	2003/12/03-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	650	50	ug/L	1.00	12/03/2003 11:30	dp
Benzene	ND	0.50	ug/L	1.00	12/03/2003 11:30	
Toluene	ND	0.50	ug/L	1.00	12/03/2003 11:30	
Ethylbenzene	ND	0.50	ug/L	1.00	12/03/2003 11:30	
Total xylenes	6.3	1.0	ug/L	1.00	12/03/2003 11:30	
Methyl tert-butyl ether (MTBE)	14	0.50	ug/L	1.00	12/03/2003 11:30	
Surrogate(s)						
1,2-Dichloroethane-d4	104.6	76-130	%	1.00	12/03/2003 11:30	
Toluene-d8	92.4	78-115	%	1.00	12/03/2003 11:30	

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
MB: 2003/12/02-2B.62-001			QC Batch # 2003/12/02-2B.62		
			Date Extracted: 12/02/2003 19:01		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/02/2003 19:01	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/02/2003 19:01	
Benzene	ND	0.5	ug/L	12/02/2003 19:01	
Toluene	ND	0.5	ug/L	12/02/2003 19:01	
Ethylbenzene	ND	0.5	ug/L	12/02/2003 19:01	
Total xylenes	ND	1.0	ug/L	12/02/2003 19:01	
Surrogates(s)					
1,2-Dichloroethane-d4	90.8	76-130	%	12/02/2003 19:01	
Toluene-d8	105.3	78-115	%	12/02/2003 19:01	

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

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: 031184-JP1
98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2003/12/03-1A.64
MB: 2003/12/03-1A.64-008			Date Extracted: 12/03/2003 10:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/03/2003 10:08	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/03/2003 10:08	
Benzene	ND	0.5	ug/L	12/03/2003 10:08	
Toluene	ND	0.5	ug/L	12/03/2003 10:08	
Ethylbenzene	ND	0.5	ug/L	12/03/2003 10:08	
Total xylenes	ND	1.0	ug/L	12/03/2003 10:08	
Surrogates(s)					
1,2-Dichloroethane-d4	103.2	76-130	%	12/03/2003 10:08	
Toluene-d8	101.6	78-115	%	12/03/2003 10:08	

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

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water		QC Batch # 2003/12/02-2B.62
LCS: 2003/12/02-2B.62-016	Extracted: 12/02/2003		Analyzed: 12/02/2003 18:16
LCSD: 2003/12/02-2B.62-039	Extracted: 12/02/2003		Analyzed: 12/02/2003 18:39

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.4	17.2	25	81.6	68.8	17.0	65-165	20		
Benzene	21.1	20.2	25	84.4	80.8	4.4	69-129	20		
Toluene	23.2	21.1	25	92.8	84.4	9.5	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	464	452	500	92.8	90.4		76-130			
Toluene-d8	491	492	500	98.2	98.4		78-115			

Severn Trent Laboratories, Inc.

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

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12/06/2003 14:04

Page 13 of 16

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: 031184-JP1
98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2003/12/03-1A-64			
LCS		2003/12/03-1A-64-046		Extracted: 12/03/2003		Analyzed: 12/03/2003 09:23				
LCSD		2003/12/03-1A-64-045		Extracted: 12/03/2003		Analyzed: 12/03/2003 09:45				
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.8	23.3	25	95.2	93.2	2.1	65-165	20		
Benzene	25.4	24.8	25	101.6	99.2	2.4	69-129	20		
Toluene	25.4	25.4	25	101.6	101.6	0.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	513	499	500	102.6	99.8		76-130			
Toluene-d8	501	502	500	100.2	100.4		78-115			

Severn Trent Laboratories, Inc.

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12/06/2003 14:04

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

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2003/12/02-2B.62
MW-2 >> MS			Lab ID: 2003-11-0863 - 002
MS: 2003/12/02-2B.62-049		Extracted: 12/02/2003	Analyzed: 12/02/2003 23:49
			Dilution: 1.00
MSD: 2003/12/02-2B.62-011		Extracted: 12/03/2003	Analyzed: 12/03/2003 00:11
			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	24.5	22.9	ND	25	98.0	91.6	6.8	69-129	20		
Toluene	26.0	23.8	ND	25	104.0	95.2	8.8	70-130	20		
Methyl tert-butyl ether	115	109	86.6	25	113.6	89.6	23.6	65-165	20		mso
Surrogate(s)											
1,2-Dichloroethane-d4	511	517		500	102.2	103.4		76-130			
Toluene-d8	542	550		500	108.5	109.9		78-115			

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: 031184-JP1

98995750

Received: 11/25/2003 14:01

Site: 610 Market Street, Oakland

Legend and Notes

Analysis Flag

o

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

Result Flag

dp

Sample contains discrete peak in addition to gasoline.

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.
Precision and Accuracy were verified by LCS/LCSD.

LAC: STL

SHELL Chain Of Custody Record

80611

Lab Identification (if necessary)

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT-HOUSTON

Karen Petryna

2003-11-0863

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 0

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11/24/03 *W/Day*

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
ADDRESS: 1880 Rogers Avenue, San Jose, CA 95112
PROJECT CONTACT (Agency or POC Name): Leon Gearhart
TELEPHONE: 408-573-0555
FAX: 408-573-7771
EMAIL: lgearhart@blainetech.com

LAB CODE: BTSS
SITE ADDRESS (Street and City): 610 Market Street, Oakland
GLOBAL ID NO.: T0600102121
FOR DELIVERABLE TO (Responsible Party or Company): Anni Kraml
PHONE NO.: 510-420-3335
EMAIL: ShellOaklandEDF@cambrd-ehv.com
COMPLIANT PROJECT NO.: 051124-01
SAMPLER NAME(S) (User): Matthew Pyrch
LAB USE ONLY:

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

LA - RIVQCB REPORT FORMAT LIST AGENCY:

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	ANALYSIS										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 2.5°C TEMPERATURE ON RECEIPT		
		DATE	TIME			TPH - Gas, Purgeable	BTEX	MTBE (M021B - 9ppb RL)	MTBE (M240B - 0.5ppb RL)	Oxygenates (G) by (M240B)	Ethanol (M260B)	Methanol	1,2-DCA (M240B)	EDB (M260B)	TPH - Diesel, Extractable (ppm)			
	MW-1	11/24/03	1125	W	3	X	X	X										
	MW-2		1140			X	X	X										
	MW-3		1300			X	X	X										
	MW-4		1035			X	X	X										
	MW-5		1025			X	X	X										
	MW-6		1150			X	X	X										
	MW-7		1145			X	X	X										
	MW-8		1250			X	X	X										
	MW-9		1110			X	X	X										

Requested by (Signature): *Matthew Pyrch* Received by (Signature): *[Signature]*

Requested by (Signature): *[Signature]* Received by (Signature): *[Signature]* Date: 11/25/03 Time: 1401

Requested by (Signature): *[Signature]* Received by (Signature): *[Signature]* Date: 11/25/03 Time: 17:05

DISPOSITION: White only final report, Green to File, Yellow and Pink to Client.

S&E Sample: 1714, 1833, 1902

WELL GAUGING DATA

Project # 031124-JP1 Date 11/24/03 Client Shell

Site 610 Market 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 TOC	
MW-1	4					14.86	24.56	TOC	
MW-2	4					12.89	—		Ext.
MW-3	4					15.13	—		Ext.
MW-4	4					11.78	19.77		
MW-5	4					11.70	20.02		
MW-6	4					14.68	—		Ext.
MW-7	4					13.99	—		Ext.
MW-8	4					14.16	—		Ext.
MW-9	4					12.30	19.74	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 031124-JPI	Site: 600 Market st, Oakland
Sampler: M. Pyroh	Date: 11/24/03
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 24.58	Depth to Water (DTW): 14.86
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]: 16.80	

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

$\frac{6.3 \text{ (Gals.)} \times 3}{\text{I Case Volume}} = \frac{18.9 \text{ Gals.}}{\text{Specified Volumes}} = \text{Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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>GS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0939	63.5	5.7	1052	42	6.5	clear
0942	67.5	5.9	879	19	13.0	"
0947	66.8	6.2	921	13	19.0	"

Did well dewater? Yes No Gallons actually evacuated: 19.0

Sampling Date: 11/24/03 Sampling Time: 1125 Depth to Water: 14.87

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

SHELL WELL MONITORING DATA SHEET

BTS #: 031124-JPI	Site: 610 Market st, Oakland
Sampler: M. Pyroh	Date: 11/24/03
Well I.D.: MW-2	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 12.89
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]: —	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic <u>Extraction Pump</u> Other:	Sampling Method: Bailer Disposable Bailer <u>Extraction Port</u> Dedicated Tubing Other:
--	--	--

_____ (Gals.) X <u>Ext. Syst.</u> = _____ 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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1138	66.1	6.7	882	6	—	clear

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: —	
Sampling Date: 11/24/03	Sampling Time: 1140	Depth to Water: —
Sample I.D.: MW-2	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): _____ @ _____ 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 #: 031124-JPI	Site: 610 Market st, Oakland
Sampler: M. Pyroh	Date: 11/24/03
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 15.13
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]: —	

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

_____ (Gals.) X <u>Extr. Syst.</u> = _____ 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
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3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1258	62.9	6.9	1067	11	—	clear

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 11/24/03 Sampling Time: 1300 Depth to Water: —

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

