

**Shell Oil Products US**

March 15, 2005

Roseanna Garcia-La Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
MAR 18 2005
Environmental Health

Subject: Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California

Dear Ms. Garcia-La Grille:

Attached for your review and comment is a copy of the *Fourth Quarter 2004 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

March 15, 2005

Roseanna Garcia-La Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 2004 Monitoring Report**
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
Incident # 98995741
Cambria Project # 247-0902-002



Dear Ms. Garcia-La Grille:

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

FOURTH QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged all site wells, sampled selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria coordinated groundwater monitoring with the adjacent Oakland Auto Works site at 240 West MacArthur. Cambria prepared a site vicinity map that includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the analytical laboratory reports, is included as Attachment A. Attachment B includes data that Stellar Environmental Solutions of Berkeley, California provided for 240 West MacArthur.

ANTICIPATED FIRST QUARTER 2005 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all wells, sample selected wells, and tabulate the data. Cambria will coordinate monitoring with the adjacent Oakland Auto Works site at 240 West MacArthur Boulevard. Cambria will prepare a monitoring report that includes a groundwater contour map based on the coordinated monitoring data.

**Cambria
Environmental
Technology, Inc.**

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

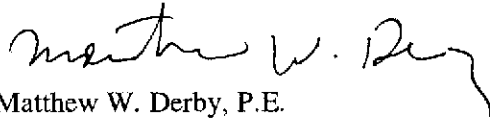
CLOSING

We appreciate the opportunity to work with you on this project. Please call David Gibbs at (510) 420-3363 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



David Gibbs
Project Geologist



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



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

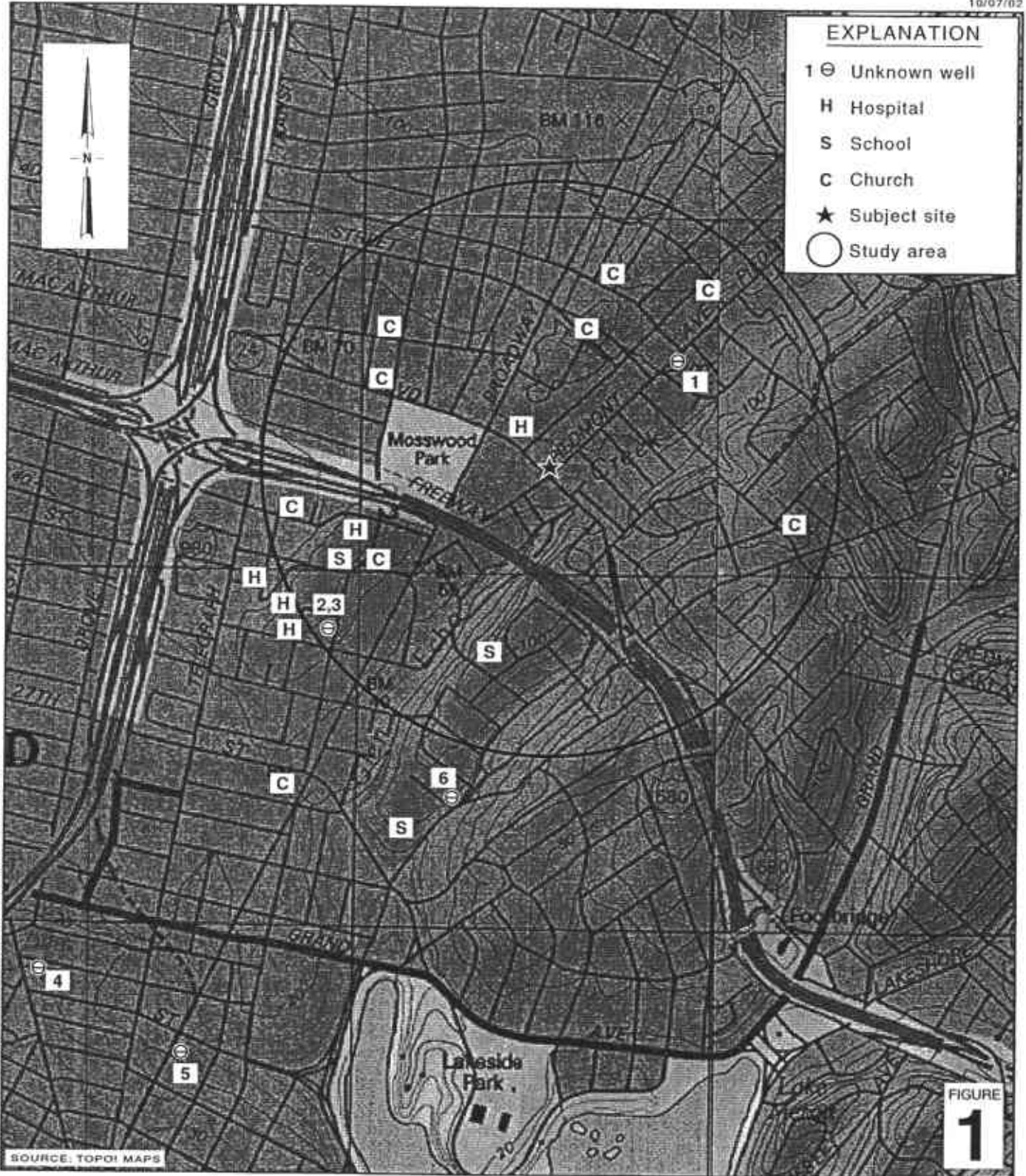
Attachments: A - Blaine Groundwater Monitoring Report
B - Groundwater Monitoring Data - 240 West MacArthur

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Bruce Ruttger, Stellar Environmental Solutions, 2198 6th Street, Berkeley, CA 94710

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EXPLANATION

- 1 ⊕ Unknown well
- H Hospital
- S School
- C Church
- ★ Subject site
- Study area



0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Shell-branded Service Station

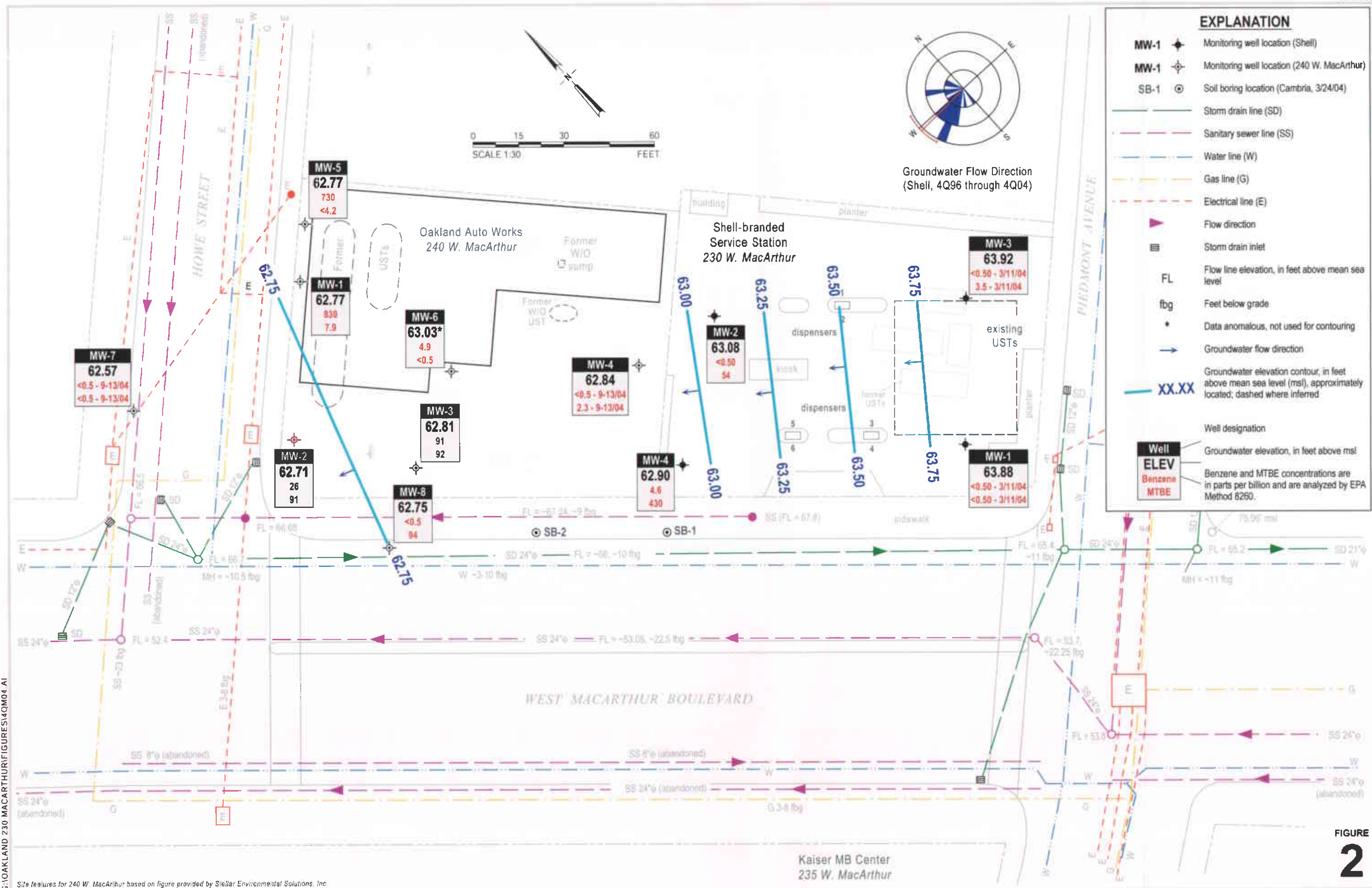
230 West MacArthur Boulevard
Oakland, California
Incident #98995741



C A M B R I A

**Vicinity/Area Well
Survey Map**

(1/2-Mile Radius)



Groundwater Elevation Contour Map

December 7, 2004



CAMBRIA

Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
Incident #98995741

FIGURE 2

G:\OAKLAND 230 MACARTHUR\FIGURES\14QM04 AI
Site features for 240 W. MacArthur based on figure provided by Stellar Environmental Solutions, Inc.

ATTACHMENT A
Blaine Groundwater Monitoring Report

BLAINE

TECH SERVICES^{INC.}

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 29, 2004

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 92510-7869

Fourth Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, CA

Monitoring performed on December 7, 2004

Groundwater Monitoring Report **041207-PC-2**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ks

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	7/14/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.30	60.59
MW-1	10/4/1988	ND	8	4.3	ND	9	NA	NA	NA	NA	NA	NA	73.89	13.65	60.24
MW-1	11/10/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.55	60.34
MW-1	12/9/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.22	60.67
MW-1	1/10/1989	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	73.89	12.86	61.03
MW-1	1/20/1989	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	73.89	12.91	60.98
MW-1	2/6/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.94	60.95
MW-1	3/10/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.59	61.30
MW-1	6/6/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.05	59.84
MW-1	9/7/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.92	58.97
MW-1	12/18/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.88	59.01
MW-1	3/8/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.08	59.81
MW-1	6/7/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.89	60.00
MW-1	9/5/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.83	59.06
MW-1	12/3/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	15.05	58.84
MW-1	3/1/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.34	59.55
MW-1	6/3/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.16	59.73
MW-1	9/4/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.60	59.29
MW-1	3/13/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.40	60.49
MW-1	6/3/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.76	60.13
MW-1	8/19/1992	87	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.57	59.32
MW-1	11/16/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.78	59.11
MW-1	2/18/1993	59a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.14	61.75
MW-1	6/1/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.30	60.59
MW-1	8/30/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.32	59.57
MW-1	12/13/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.06	59.83
MW-1	3/3/1994	100	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.12	60.77

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, CA

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MW-1	6/6/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.20	59.69
MW-1	9/12/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	15.72	58.17
MW-1	12/15/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	12.98	60.91
MW-1	3/13/1995 b	60	4.7	9.8	ND	2.9	NA	NA	NA	NA	NA	NA	73.89	11.74	62.15
MW-1	4/21/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	NA	NA
MW-1	6/26/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	13.00	60.89
MW-1	9/12/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.89	14.14	59.75
MW-1	3/21/1996	<50	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	73.89	11.03	62.86
MW-1	6/28/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	73.89	13.53	60.36
MW-1	9/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	73.89	14.33	59.56
MW-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	13.20	60.69
MW-1	12/5/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	12.39	61.50
MW-1	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	13.59	60.30
MW-1	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	15.63	58.26
MW-1	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	15.36	58.53
MW-1	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	12.09	61.80
MW-1	3/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	12.33	61.56
MW-1	3/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	73.89	12.08	61.81
MW-1	6/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.89	13.47	60.42
MW-1	9/9/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.30	62.62
MW-1	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.48	62.44
MW-1	3/10/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	76.92	12.76	64.16
MW-1	6/10/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.17	63.75
MW-1	9/16/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.10	62.82
MW-1	12/3/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.93	62.99
MW-1	3/11/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	76.92	12.04	64.88
MW-1	6/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.75	63.17
MW-1	9/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	14.47	62.45

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, CA

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MW-1	12/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.92	13.04	63.88
MW-2	7/14/1988	ND	7.9	2.6	1.1	4	NA	NA	NA	NA	NA	NA	75.24	15.18	60.06
MW-2	10/4/1988	90	ND	1.3	2.3	12	NA	NA	NA	NA	NA	NA	75.24	15.30	59.94
MW-2	11/10/1988	ND	ND	ND	ND	2	NA	NA	NA	NA	NA	NA	75.24	15.17	60.07
MW-2	12/9/1988	ND	ND	0.6	ND	3	NA	NA	NA	NA	NA	NA	75.24	14.82	60.42
MW-2	1/20/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.54	60.70
MW-2	2/6/1989	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.59	60.65
MW-2	3/10/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.88	60.36
MW-2	6/6/1989	ND	ND	0.5	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.30	59.94
MW-2	9/7/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.76	58.48
MW-2	12/18/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.65	58.59
MW-2	3/8/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.92	59.32
MW-2	6/7/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.10	59.14
MW-2	9/5/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.61	58.63
MW-2	12/3/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	17.06	58.18
MW-2	3/1/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.62	58.62
MW-2	6/3/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.65	58.59
MW-2	9/4/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.57	58.67
MW-2	3/13/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.66	60.58
MW-2	6/3/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.90	59.34
MW-2	8/19/1992	67	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.72	58.52
MW-2	11/16/1992	50	ND	ND	ND	1.2	NA	NA	NA	NA	NA	NA	75.24	16.66	58.58
MW-2	2/18/1993	52a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	13.88	61.36
MW-2 (D)	2/18/1993	52a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	13.88	61.36
MW-2	6/1/1993	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.74	60.50
MW-2	8/30/1993	70a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.85	59.39
MW-2	12/13/1993	68a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.83	59.41

WELL CONCENTRATIONS
Shell-branded Service Station
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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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	3/3/1994	280a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.80	60.44
MW-2	6/6/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.65	58.59
MW-2	9/12/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	16.72	58.52
MW-2	12/15/1994	230a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.25	59.99
MW-2	3/13/1995	ND	2.9	6.3	ND	2.7	NA	NA	NA	NA	NA	NA	75.24	15.32	59.92
MW-2	4/21/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	NA	NA
MW-2	6/26/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	14.65	60.59
MW-2	9/12/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	75.24	15.78	59.46
MW-2	3/21/1996	<50	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	75.24	12.72	62.52
MW-2	6/28/1996	<50	<0.5	<0.5	<0.5	<0.5	160	NA	NA	NA	NA	NA	75.24	14.95	60.29
MW-2	9/19/1996	<50	<0.5	<0.5	<0.5	<0.5	27	NA	NA	NA	NA	NA	75.24	15.64	59.60
MW-2	12/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	14.47	60.77
MW-2	12/5/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	14.22	61.02
MW-2	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	14.97	60.27
MW-2	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	16.07	59.17
MW-2	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.24	15.78	59.46
MW-2	12/27/2001	NA	NA	NA	NA	NA	NA	95	NA	NA	NA	NA	75.24	14.25	60.99
MW-2	3/14/2002	120	<0.50	<0.50	<0.50	<0.50	NA	31	NA	NA	NA	NA	75.24	14.59	60.65
MW-2	6/13/2002	100	<0.50	<0.50	<0.50	<0.50	NA	32	NA	NA	NA	NA	75.24	14.58	60.66
MW-2	9/9/2002	90	<0.50	<0.50	<0.50	<0.50	NA	54	NA	NA	NA	NA	78.25	15.49	62.76
MW-2	12/12/2002	92	<0.50	<0.50	<0.50	<0.50	NA	21	NA	NA	NA	NA	78.25	16.21	62.04
MW-2	3/10/2003	110	<0.50	<0.50	<0.50	<0.50	NA	33	NA	NA	NA	NA	78.25	14.33	63.92
MW-2	6/10/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	49	NA	NA	NA	NA	78.25	14.48	63.77
MW-2	9/16/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	78.25	15.45	62.80
MW-2	12/3/2003	56 a	<0.50	<0.50	<0.50	<1.0	NA	3.6	NA	NA	NA	NA	78.25	15.60	62.65
MW-2	3/11/2004	58 a	<0.50	<0.50	<0.50	<1.0	NA	67	NA	NA	NA	NA	78.25	13.78	64.47
MW-2	6/17/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	40	NA	NA	NA	NA	78.25	14.87	63.38
MW-2	9/13/2004	68 d	<0.50	<0.50	<0.50	<1.0	NA	44	<2.0	<2.0	<2.0	<5.0	78.25	15.85	62.40

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230 West MacArthur Boulevard
Oakland, CA

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MW-2	12/7/2004	<50 e	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	NA	78.25	15.17	63.08
MW-3	7/14/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.05	60.63
MW-3	10/4/1988	ND	ND	ND	ND	5	NA	NA	NA	NA	NA	NA	74.68	14.60	60.08
MW-3	11/10/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.35	60.33
MW-3	12/9/1988	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.04	60.64
MW-3	1/10/1989	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	74.68	13.70	60.98
MW-3	1/20/1989	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.72	60.96
MW-3	2/6/1989	70	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.75	60.93
MW-3	3/10/1989	150	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.42	61.26
MW-3	6/6/1989	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.52	60.16
MW-3	9/7/1989	ND	0.65	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.52	59.16
MW-3	12/18/1989	46	1.3	ND	0.44	0.66	NA	NA	NA	NA	NA	NA	74.68	19.59	55.09
MW-3	3/8/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.72	59.96
MW-3	6/7/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.65	60.03
MW-3	9/5/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.51	59.17
MW-3	12/3/1990	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.85	59.83
MW-3	3/1/1991	1.9	59	ND	22	ND	NA	NA	NA	NA	NA	NA	74.68	14.92	59.76
MW-3	6/3/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.75	59.93
MW-3	9/4/1991	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.14	59.54
MW-3	3/13/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.50	61.18
MW-3	6/3/1992	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.39	60.29
MW-3	8/19/1992	92	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.08	59.60
MW-3 (D)	8/19/1992	76	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.08	59.60
MW-3	11/16/1992	200a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.43	59.25
MW-3 (D)	11/16/1992	140a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.43	59.25
MW-3	2/18/1993	680a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	12.96	61.72
MW-3	6/1/1993	160a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.98	60.70

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3 (D)	6/1/1993	150a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.98	60.70
MW-3	8/30/1993	110a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.82	59.86
MW-3	12/13/1993	140a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.70	59.98
MW-3 (D)	12/13/1993	110a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.70	59.98
MW-3	3/3/1994	61a	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.92	60.76
MW-3	6/6/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.73	59.95
MW-3	9/12/1994	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	15.42	59.26
MW-3	12/15/1994	ND	ND	0.9	ND	0.6	NA	NA	NA	NA	NA	NA	74.68	13.80	60.88
MW-3	3/13/1995	100a	7.9	17	0.7	6.1	NA	NA	NA	NA	NA	NA	74.68	12.41	62.27
MW-3	4/21/1995	60	0.9	1.1	ND	1	NA	NA	NA	NA	NA	NA	74.68	NA	NA
MW-3	6/26/1995	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	13.79	60.89
MW-3	09/12/1995 b	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	74.68	14.77	59.91
MW-3	3/21/1996	<50	<0.5	<0.5	<0.5	<0.5	17	NA	NA	NA	NA	NA	74.68	11.80	62.88
MW-3	6/28/1996	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	74.68	14.19	60.49
MW-3	9/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	74.68	14.85	59.83
MW-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	13.61	61.07
MW-3	12/5/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	13.16	61.52
MW-3	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	14.08	60.60
MW-3	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	15.92	58.76
MW-3	12/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	15.31	59.37
MW-3	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	12.84	61.84
MW-3	3/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	12.54	62.14
MW-3	3/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	40	NA	NA	NA	NA	74.68	12.78	61.90
MW-3	6/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.68	14.06	60.62
MW-3	9/9/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.77	62.92
MW-3	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	15.11	62.58
MW-3	3/10/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	5.4	NA	NA	NA	NA	77.69	13.52	64.17
MW-3	6/10/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	13.82	63.87

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	9/16/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.60	63.09
MW-3	12/3/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.53	63.16
MW-3	3/11/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	3.5	NA	NA	NA	NA	77.69	12.38	65.31
MW-3	6/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.28	63.41
MW-3	9/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	14.78	62.91
MW-3	12/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.69	13.77	63.92
MW-4	1/23/1990	1,600	100	10	30	20	NA	NA	NA	NA	NA	NA	73.83	14.68	59.15
MW-4	3/8/1990	4,200	260	18	88	39	NA	NA	NA	NA	NA	NA	73.83	14.38	59.45
MW-4	6/7/1990	2,000	150	6.9	14	17	NA	NA	NA	NA	NA	NA	73.83	14.27	59.56
MW-4	9/5/1990	1,700	130	10	7.2	19	NA	NA	NA	NA	NA	NA	73.83	15.40	58.43
MW-4	12/3/1990	2,600	108	41	17	59	NA	NA	NA	NA	NA	NA	73.83	15.90	57.93
MW-4	6/3/1991	2,800	160	15	8.8	32	NA	NA	NA	NA	NA	NA	73.83	14.60	59.23
MW-4	9/4/1991	Sheen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.83	15.25	58.58
MW-4	3/13/1992	2,700	180	70	5.9	29	NA	NA	NA	NA	NA	NA	73.83	12.72	61.11
MW-4	6/3/1992	1,700	190	ND	30	23	NA	NA	NA	NA	NA	NA	73.83	14.33	59.50
MW-4	8/19/1992	170	4.2	ND	0.6	1	NA	NA	NA	NA	NA	NA	73.83	15.18	58.65
MW-4	11/16/1992	2,600	92	49	50	81	NA	NA	NA	NA	NA	NA	73.83	15.39	58.44
MW-4	2/18/1993	7,400	120	38	51	87	NA	NA	NA	NA	NA	NA	73.83	12.62	61.21
MW-4	6/1/1993	7,000	1,800	1,700	1,600	1,700	NA	NA	NA	NA	NA	NA	73.83	13.68	60.15
MW-4	8/30/1993	2,100	80	11	ND	11	NA	NA	NA	NA	NA	NA	73.83	14.83	59.00
MW-4 (D)	8/30/1993	2,100	77	5.6	ND	5.5	NA	NA	NA	NA	NA	NA	73.83	14.83	59.00
MW-4	12/13/1993	2,000a	20	ND	21	52	NA	NA	NA	NA	NA	NA	73.83	14.50	59.33
MW-4	3/3/1994	3,500	150	86	85	90	NA	NA	NA	NA	NA	NA	73.83	13.48	60.35
MW-4 (D)	3/3/1994	3,200	130	73	74	76	NA	NA	NA	NA	NA	NA	73.83	13.48	60.35
MW-4	6/6/1994	590	25	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.83	14.26	59.57
MW-4 (D)	6/6/1994	400	16	ND	ND	ND	NA	NA	NA	NA	NA	NA	73.83	14.26	59.57
MW-4	9/12/1994	1,800	42	ND	3.7	4.7	NA	NA	NA	NA	NA	NA	73.83	15.42	58.41

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4 (D)	9/12/1994	2,000	40	ND	5.7	8	NA	NA	NA	NA	NA	NA	73.83	15.42	58.41
MW-4	12/15/1994	2,900	78	14	94	17	NA	NA	NA	NA	NA	NA	73.83	13.43	60.40
MW-4 (D)	12/15/1994	2,900	90	7	96	18	NA	NA	NA	NA	NA	NA	73.83	13.43	60.40
MW-4	3/13/1995	2,700	240	24	99	34	NA	NA	NA	NA	NA	NA	73.83	12.13	61.70
MW-4 (D)	3/13/1995	2,500	300	24	140	28	NA	NA	NA	NA	NA	NA	73.83	12.13	61.70
MW-4	6/25/1995	2,100	87	10	67	25	NA	NA	NA	NA	NA	NA	73.83	13.26	60.57
MW-4 (D)	6/25/1995	2,300	92	12	74	26	NA	NA	NA	NA	NA	NA	73.83	13.26	60.57
MW-4	09/12/1995 b	1,300	33	13	9.3	15	NA	NA	NA	NA	NA	NA	73.83	14.64	59.19
MW-4 (D)	09/12/1995 b	1,500	2.1	16	11	17	NA	NA	NA	NA	NA	NA	73.83	14.64	59.19
MW-4	3/21/1996	2,100	50	3.2	40	5.4	ND	NA	NA	NA	NA	NA	73.83	11.55	62.28
MW-4 (D)	3/21/1996	1,700	24	<0.5	39	7.2	740	NA	NA	NA	NA	NA	73.83	11.55	62.28
MW-4	6/28/1996	1,300	61	6.2	53	11	1,000	NA	NA	NA	NA	NA	73.83	13.86	59.97
MW-4 (D)	6/28/1996	1,200	29	6.2	50	8.3	1,000	NA	NA	NA	NA	NA	73.83	13.86	59.97
MW-4	9/19/1996	820	12	<2.5	2.8	4.3	720	NA	NA	NA	NA	NA	73.83	14.72	59.11
MW-4 (D)	9/19/1996	580	9.6	<2.5	<2.5	<2.5	760	1,200	NA	NA	NA	NA	73.83	14.72	59.11
MW-4	12/19/1996	1,200	28	<5.0	<5.0	<5.0	<25	NA	NA	NA	NA	NA	73.83	13.06	60.77
MW-4	12/5/1997	1,900	36	9	16	18	630	NA	NA	NA	NA	NA	73.83	12.89	60.94
MW-4	12/24/1998	1,100	23	5.3	38	7.9	1,100	NA	NA	NA	NA	NA	73.83	13.92	59.91
MW-4	12/17/1999	1,100	22	21	13	11	3,800	3,200	NA	NA	NA	NA	73.83	14.28	59.55
MW-4	12/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.83	16.24	57.59
MW-4	12/11/2000	975	25.0	11.3	<5.00	<5.00	1960	1730c	NA	NA	NA	NA	73.83	14.15	59.68
MW-4	12/27/2001	2,000	9.9	<5.0	18	<5.0	NA	1,400	NA	NA	NA	NA	73.83	12.61	61.22
MW-4	3/14/2002	1,700	6.6	<2.0	2.1	2.1	NA	1,100	NA	NA	NA	NA	73.83	12.35	61.48
MW-4	6/13/2002	1,200	4.7	<2.0	<2.0	<2.0	NA	1,100	NA	NA	NA	NA	73.83	13.72	60.11
MW-4	9/9/2002	620	3.7	<2.0	<2.0	<2.0	NA	760	NA	NA	NA	NA	76.82	14.56	62.26
MW-4	12/12/2002	1,500	3.9	<2.0	<2.0	<2.0	NA	880	NA	NA	NA	NA	76.82	14.82	62.00
MW-4	3/10/2003	2,300	5.7	0.95	3.8	0.63	NA	1,200	NA	NA	NA	NA	76.82	13.63	63.19
MW-4	6/10/2003	2,200	5.3	<5.0	<5.0	<10	NA	880	NA	NA	NA	NA	76.82	13.68	63.14

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	9/16/2003	1,400	<5.0	<5.0	<5.0	<10	NA	420	NA	NA	NA	NA	76.82	14.35	62.47
MW-4	12/3/2003	2,600	5.0	<5.0	<5.0	<10	NA	840	NA	NA	NA	NA	76.82	14.27	62.55
MW-4	3/11/2004	1900 a	6.3	<5.0	<5.0	<10	NA	800	NA	NA	NA	NA	76.82	12.62	64.20
MW-4	6/17/2004	1,000	7.4	<2.5	<2.5	<5.0	NA	460	NA	NA	NA	NA	76.82	13.90	62.92
MW-4	9/13/2004	1,100	4.6	<2.5	<2.5	<5.0	NA	300	<10	<10	<10	160	76.82	14.67	62.15
MW-4	12/7/2004	2,200	4.6	<2.5	<2.5	<5.0	NA	430	NA	NA	NA	NA	76.82	13.92	62.90

Abbreviations:

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to December 27, 2001, by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

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

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

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

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

ND = Not detected at or above the quantitative limit.

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
230 West MacArthur Boulevard
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Notes:

a = Chromatogram pattern indicates the presence of an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

b = The laboratory noted the sample was analyzed after the method specified holding time.

c = This sample was analyzed outside of EPA recommended hold time.

d = Sample contains discrete peak in gasoline range.

e = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

Site surveyed January 30, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Blaine Tech Services, Inc.

December 22, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 041207-PC2
Project: 98995741
Site: 230 W. MacArthur Blvd., Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 12/08/2004 12:01

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 01/22/2005 unless you have requested otherwise.

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

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

Sincerely,



Melissa Brewer
Project Manager

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) 573-7771Project: 041207-PC2
98995741

Received: 12/08/2004 12:01

Site: 230 W. MacArthur Blvd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	12/07/2004 09:50	Water	1
MW-4	12/07/2004 10:02	Water	2

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

12/20/2004 08:56

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: 041207-PC2

98995741

Received: 12/08/2004 12:01

Site: 230 W. MacArthur Blvd., Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-2

Lab ID: 2004-12-0415 - 1

Sampled: 12/07/2004 09:50

Extracted: 12/17/2004 04:23

Matrix: Water

QC Batch#: 2004/12/16-2B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	12/17/2004 04:23	Q6
Benzene	ND	0.50	ug/L	1.00	12/17/2004 04:23	
Toluene	ND	0.50	ug/L	1.00	12/17/2004 04:23	
Ethylbenzene	ND	0.50	ug/L	1.00	12/17/2004 04:23	
Total xylenes	ND	1.0	ug/L	1.00	12/17/2004 04:23	
Methyl tert-butyl ether (MTBE)	54	0.50	ug/L	1.00	12/17/2004 04:23	
Surrogate(s)						
1,2-Dichloroethane-d4	111.7	73-130	%	1.00	12/17/2004 04:23	
Toluene-d8	99.0	81-114	%	1.00	12/17/2004 04:23	

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: 041207-PC2
98995741

Received: 12/08/2004 12:01

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/12/16-2B.64-058

Water

Test(s): 8260B

QC Batch # 2004/12/16-2B.64

Date Extracted: 12/16/2004 20:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	12/16/2004 20:45	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/16/2004 20:45	
Benzene	ND	0.5	ug/L	12/16/2004 20:45	
Toluene	ND	0.5	ug/L	12/16/2004 20:45	
Ethylbenzene	ND	0.5	ug/L	12/16/2004 20:45	
Total xylenes	ND	1.0	ug/L	12/16/2004 20:45	
Surrogates(s)					
1,2-Dichloroethane-d4	105.4	73-130	%	12/16/2004 20:45	
Toluene-d8	103.6	81-114	%	12/16/2004 20:45	

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: 041207-PC2
98995741

Received: 12/08/2004 12:01

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/16-2B.64

LCS 2004/12/16-2B.64-057

Extracted: 12/16/2004

Analyzed: 12/16/2004 20:24

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.9		25	115.6			65-165	20		
Benzene	28.4		25	113.6			69-129	20		
Toluene	29.4		25	117.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	517		500	103.4			73-130			
Toluene-d8	533		500	106.6			81-114			

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

12/20/2004 08:56

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: 041207-PC2
98995741

Received: 12/08/2004 12:01

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/12/16-2B.64

MS/MSD

Lab ID: 2004-12-0379 - 009

MS: 2004/12/16-2B.64-034

Extracted: 12/16/2004

Analyzed: 12/16/2004 22:34

Dilution: 1.00

MSD: 2004/12/16-2B.64-056

Extracted: 12/16/2004

Analyzed: 12/16/2004 22:56

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	32.4	29.2	ND	25	129.6	116.8	10.4	69-129	20	M4	
Toluene	32.7	29.7	ND	25	130.8	118.8	9.6	70-130	20	M4	
Methyl tert-butyl ether	32.5	28.2	ND	25	130.0	112.8	14.2	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	527	503		500	105.4	100.6		73-130			
Toluene-d8	524	536		500	104.8	107.2		81-114			

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) 573-7771Project: 041207-PC2
98995741

Received: 12/08/2004 12:01

Site: 230 W. MacArthur Blvd., Oakland

Legend and Notes

Sample Comment

Lab ID: 2004-12-0415-1

Siloxane peaks were found in the sample, which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 84 ug/L.

Analysis Flag

L2

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

Result Flag

M4

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

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

ATTACHMENT B
Groundwater Monitoring Data
240 West MacArthur

**FOURTH QUARTER 2004
GROUNDWATER MONITORING
AND ANNUAL SUMMARY REPORT**

**240 W. MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA**

Prepared for:

**MR. GLEN POY-WING
OAKLAND AUTO WORKS
240 W. MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA 94612**

Prepared by:

**STELLAR ENVIRONMENTAL SOLUTIONS, INC.
2198 SIXTH STREET
BERKELEY, CALIFORNIA 94710**

January 18, 2005

Project No. 2003-43

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
240 W. MacArthur Boulevard, Oakland, California

Well	Well Depth (feet bgs)	Well Screened Interval		Groundwater Level Depth ^(a) December 7, 2004	Groundwater Elevation ^(b) December 7, 2004
		Depth (feet)	Elevation (feet)		
MW-1	25	19.5 to 24.5	54.5 to 49.5	16.38	62.77
MW-2	25	14.5 to 24.5	64.2 to 54.2	15.74	62.71
MW-3	25	14.5 to 24.5	63.4 to 53.4	14.77	62.81
MW-4	25	14.5 to 24.5	63.6 to 53.6	14.90	62.84
MW-5	20	9 to 19	70.6 to 60.6	16.59	62.77
MW-6	20	9 to 19	69.7 to 59.7	15.40	63.03
MW-7	20	9 to 19	69.6 to 59.6	15.70	62.57
MW-8	20	9 to 19	67.7 to 57.7	13.64	62.75

Notes:

^(a) Pre-purge measurement, feet below top of well casing.

^(b) Pre-purge measurement, feet above mean sea level.

Table 2
Groundwater Sample Analytical Results – December 7, 2004
Hydrocarbons, BTEX and MTBE
240 W. MacArthur Boulevard, Oakland, California ^(a)

Well	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	11,000	3,300	830	21	74	118	7.9
MW-2	1,400	540	26	1.1	1.8	3.5	91
MW-3	5,300	2,400	91	7.4	21	19	92
MW-4	< 50	NA	NA	NA	NA	NA	NA
MW-5	16,000	3,300	730	200	250	1,100	< 4.2
MW-6	280	1,100	4.9	< 0.5	1.4	4.4	< 0.5
MW-7	< 50	NA	NA	NA	NA	NA	NA
MW-8	270	84	< 0.5	< 0.5	< 0.5	< 0.5	94
RWQCB Environmental Screening Levels ^(b)							
	NLP	NLP	1.0	40	30	20	5.0
Drinking Water Standards ^(c)							
	100	100	1.0 ^(d)	40	30	13	5.0

Notes:

^(a) All concentrations in micrograms per liter (µg/L), equivalent to parts per billion (ppb).

^(b) For commercial/industrial sites where known or potential drinking water resource is threatened.

^(c) Drinking water standards are State of California Secondary Maximum Contaminant Levels (MCLs) – proposed, unless specified otherwise.

^(d) State of California Primary MCL.

MTBE = methyl *tertiary*-butyl ether

TEHd = total extractable hydrocarbons - diesel range

TVHg = total volatile hydrocarbons - gasoline range

NA = Not analyzed for this contaminant.

NLP = No level published.

Analytes in **bold face** exceed ESLs or drinking water standards.

Table 3
Groundwater Sample Analytical Results – December 7, 2004
Lead Scavengers and Fuel Oxygenates
240 W. MacArthur Boulevard, Oakland, California ^(a)

Well	EDC	EDB	TBA	DIPE
MW-1	< 1.3	< 1.3	< 25	< 1.3
MW-2	< 0.5	< 0.5	< 10	0.8
MW-3	< 0.7	< 0.7	< 14	1.3
MW-4	NA	NA	NA	NA
MW-5	< 4.2	< 4.2	< 83	< 4.2
MW-6	24	< 0.5	32	0.7
MW-7	NA	NA	NA	NA
MW-8	< 0.5	< 0.5	< 10	1.0
RWQCB Environmental Screening Levels ^(c)				
	0.5	0.05	12	NLP
Drinking Water Standards ^(b)				
	NLP	NLP	NLP	NLP

Notes:

^(a) All concentrations in micrograms per liter (µg/L), equivalent to parts per billion (ppb).

^(b) Drinking water standards are State of California Secondary Maximum Contaminant Levels (MCLs) – proposed, unless specified otherwise.

^(c) For commercial/industrial sites where known/potential drinking water resource is threatened.

DIPE = di-isopropyl ether

EDB = ethylene dibromide (1,2-dibromoethane)

EDC = ethylene dichloride (1,2-dichloroethane)

TBA = *tertiary*-butyl alcohol

NA = Not analyzed for this contaminant

NLP = No level published.

Analytes in **bold face** exceed drinking water standards.

Table includes only detected fuel oxygenates. Appendix B contains the full list of analytical compounds.