RO 303

Shell Oil Products US

July 2, 2004

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

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

Dear Mr. Hwang:

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

Karen Petryna
Sr. Environmental Engineer

20945 S. Wilmington Ave., Carson, CA 90810 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

July 2, 2004

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

Re: **First Quarter 2004 Monitoring Report**
Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
Incident # 98995741
Cambria Project # 246-0902-002

Dear Mr. Hwang:

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.

FIRST 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.

Subsurface Investigation: After waiting over 60 days for written approval of Cambria's October 31, 2002 *Sensitive Receptor Survey, Conduit Study Report, and Subsurface Investigation Work Plan* from Alameda County Health Care Services Agency (ACHCSA), Cambria installed the proposed off-site soil borings SB-1 and SB-2 on March 24, 2004, at Shell's request (Figure 2). Based on more recent monitoring and sampling data, the soil boring locations were moved slightly from those proposed in the work plan. Cambria also began preparing a subsurface investigation report documenting the soil boring installations.

Cambria Environmental Technology, Inc.

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

ANTICIPATED SECOND QUARTER 2004 ACTIVITIES

Groundwater Monitoring: The second quarter sampling event is scheduled for June 2004. At that time, 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.

Subsurface Investigation Report: Cambria will submit a subsurface investigation report to ACHCSA documenting the results of installing off-site soil borings SB-1 and SB-2.

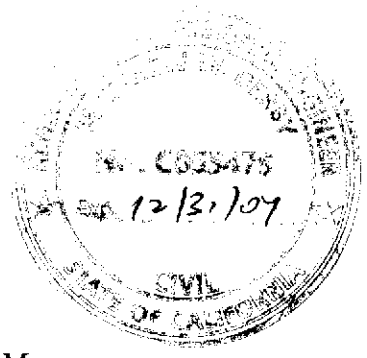
CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc

Caryl A. Weekley, R.G.
Senior 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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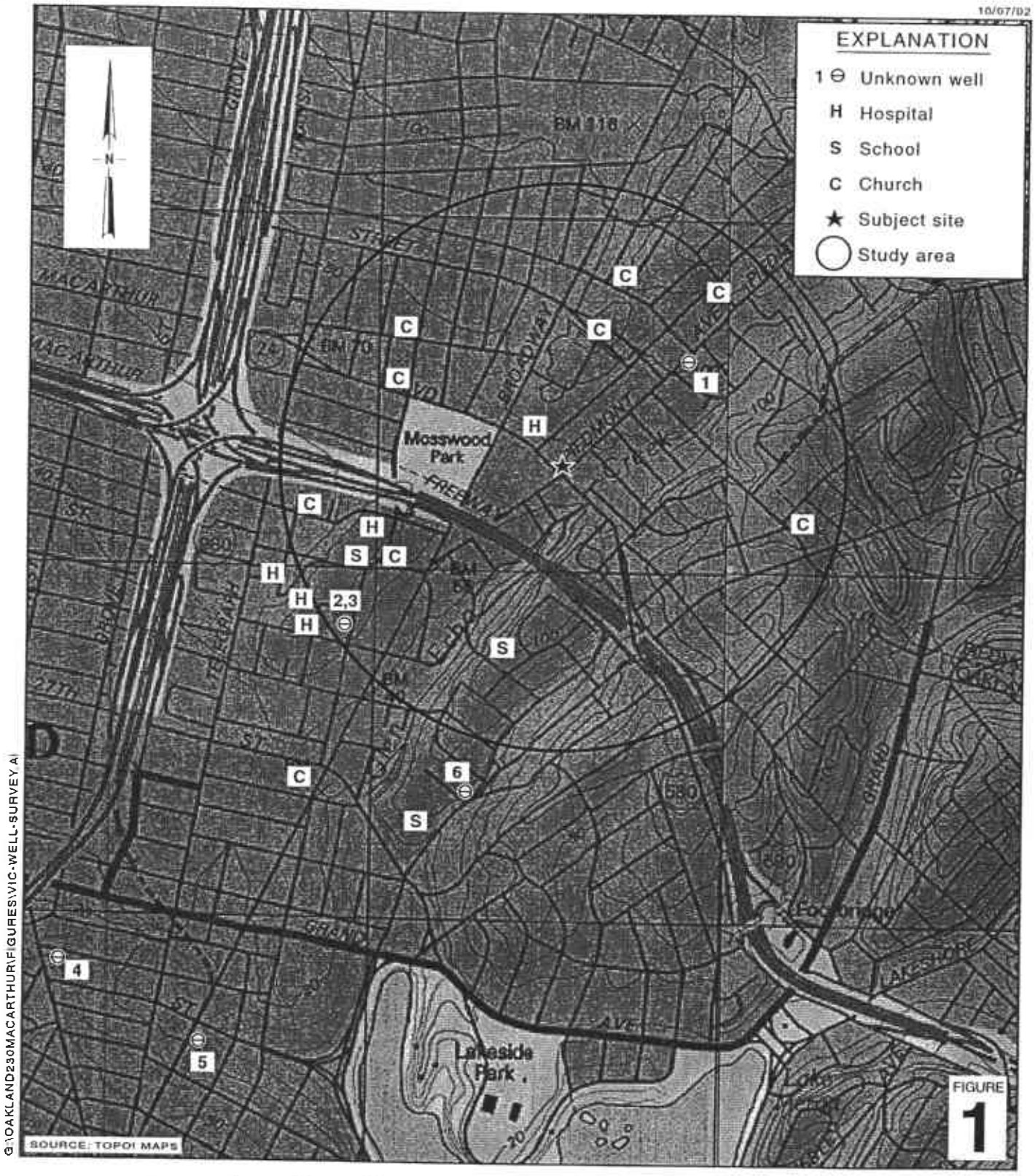

Shell-branded Service Station
230 West MacArthur Boulevard
Oakland, California
Incident #98995741

CAMBRIA

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

06/16/04

Groundwater Elevation Contour Map

March 11, 2004

0 15 30 60
SCALE 1:30 FEET

Groundwater Flow Direction
(Shell, 4Q96 through 1Q04)

EXPLANATION

- SB-1 — Proposed soil boring location
- MW-1 — Monitoring well location (Shell)
- MW-1 — Monitoring well location (240 W. MacArthur)
- Storm drain line (SD)
- Sanitary sewer line (SS)
- Water line (W)
- Gas line (G)
- Electrical line (E)
- Flow direction
- Storm drain inlet
- FL — Flow line elevation, in feet above mean sea level
- fbg — Feet below grade
- * — 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 designation

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.

HOWE STREET

PIEDMONT AVENUE

WEST MACARTHUR BOULEVARD

Oakland Auto Works
240 W. MacArthur

Shell-branded
Service Station
230 W. MacArthur

Kaiser MB Center
235 W. MacArthur

MW-5	64.92	867	145
MW-1	64.82	483	67
MW-7	64.70	<0.3	57
MW-2	64.62	12	249
MW-6	64.92*	4.0	3.7
MW-3	64.65	82	249
MW-8	64.61	1.2	66
MW-2	64.47	<0.50	67
MW-4	64.96	<0.3	<5.0
MW-4	64.20	6.3	800
MW-3	65.31	<0.50	3.5
MW-1	64.88	<0.50	<0.50

64.80 64.60 64.40 65.00 65.20

SB-2 SB-1

Site features for 240 W. MacArthur based on figure provided by Stetler Environmental Solutions, Inc.

G:\OAKLAND230MACARTHUR\FIGURES\1QM04.AI

CAMBRIA

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

FIGURE
2

ATTACHMENT A

Blaine Groundwater Monitoring Report

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

April 28, 2004

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

First Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
230 West MacArthur Blvd.
Oakland, CA

Monitoring performed on March 11, 2004

Groundwater Monitoring Report **040311-MD-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/mrb

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
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)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)
MW-1	07/14/1988	ND	ND	ND	ND	ND	NA	NA	73.89	13.30	60.59
MW-1	10/04/1988	ND	8	4.3	ND	9	NA	NA	73.89	13.65	60.24
MW-1	11/10/1988	ND	ND	ND	ND	ND	NA	NA	73.89	13.55	60.34
MW-1	12/09/1988	ND	ND	ND	ND	ND	NA	NA	73.89	13.22	60.67
MW-1	01/10/1989	ND	ND	ND	ND	NA	NA	NA	73.89	12.86	61.03
MW-1	01/20/1989	ND	ND	NA	NA	ND	NA	NA	73.89	12.91	60.98
MW-1	02/06/1989	ND	ND	ND	ND	ND	NA	NA	73.89	12.94	60.95
MW-1	03/10/1989	ND	ND	ND	ND	ND	NA	NA	73.89	12.59	61.30
MW-1	06/06/1989	ND	ND	ND	ND	ND	NA	NA	73.89	14.05	59.84
MW-1	09/07/1989	ND	ND	ND	ND	ND	NA	NA	73.89	14.92	58.97
MW-1	12/18/1989	ND	ND	ND	ND	ND	NA	NA	73.89	14.88	59.01
MW-1	03/08/1990	ND	ND	ND	ND	ND	NA	NA	73.89	14.08	59.81
MW-1	06/07/1990	ND	ND	ND	ND	ND	NA	NA	73.89	13.89	60.00
MW-1	09/05/1990	ND	ND	ND	ND	ND	NA	NA	73.89	14.83	59.06
MW-1	12/03/1990	ND	ND	ND	ND	ND	NA	NA	73.89	15.05	58.84
MW-1	03/01/1991	ND	ND	ND	ND	ND	NA	NA	73.89	14.34	59.55
MW-1	06/03/1991	ND	ND	ND	ND	ND	NA	NA	73.89	14.16	59.73
MW-1	09/04/1991	ND	ND	ND	ND	ND	NA	NA	73.89	14.60	59.29
MW-1	03/13/1992	ND	ND	ND	ND	ND	NA	NA	73.89	13.40	60.49
MW-1	06/03/1992	ND	ND	ND	ND	ND	NA	NA	73.89	13.76	60.13
MW-1	08/19/1992	87	ND	ND	ND	ND	NA	NA	73.89	14.57	59.32
MW-1	11/16/1992	ND	ND	ND	ND	ND	NA	NA	73.89	14.78	59.11
MW-1	02/18/1993	59a	ND	ND	ND	ND	NA	NA	73.89	12.14	61.75
MW-1	06/01/1993	ND	ND	ND	ND	ND	NA	NA	73.89	13.30	60.59
MW-1	08/30/1993	ND	ND	ND	ND	ND	NA	NA	73.89	14.32	59.57
MW-1	12/13/1993	ND	ND	ND	ND	ND	NA	NA	73.89	14.06	59.83
MW-1	03/03/1994	100	ND	ND	ND	ND	NA	NA	73.89	13.12	60.77

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	06/06/1994	ND	ND	ND	ND	ND	NA	NA	73.89	14.20	59.69
MW-1	09/12/1994	ND	ND	ND	ND	ND	NA	NA	73.89	15.72	58.17
MW-1	12/15/1994	ND	ND	ND	ND	ND	NA	NA	73.89	12.98	60.91
MW-1	3/13/1995 b	60	4.7	9.8	ND	2.9	NA	NA	73.89	11.74	62.15
MW-1	04/21/1995	ND	ND	ND	ND	ND	NA	NA	73.89	NA	NA
MW-1	06/26/1995	ND	ND	ND	ND	ND	NA	NA	73.89	13.00	60.89
MW-1	09/12/1995	ND	ND	ND	ND	ND	NA	NA	73.89	14.14	59.75
MW-1	03/21/1996	<50	<0.5	<0.5	<0.5	<0.5	ND	NA	73.89	11.03	62.86
MW-1	06/28/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	73.89	13.53	60.36
MW-1	09/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	73.89	14.33	59.56
MW-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	73.89	13.20	60.69
MW-1	12/05/1997	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	73.89	13.59	60.30
MW-1	12/23/1999	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	73.89	15.36	58.53
MW-1	12/27/2001	NA	NA	NA	NA	NA	NA	NA	73.89	12.09	61.80
MW-1	03/12/2002	NA	NA	NA	NA	NA	NA	NA	73.89	12.33	61.56
MW-1	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	73.89	12.08	61.81
MW-1	06/13/2002	NA	NA	NA	NA	NA	NA	NA	73.89	13.47	60.42
MW-1	09/09/2002	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	76.92	14.48	62.44
MW-1	03/10/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	76.92	12.76	64.16
MW-1	06/10/2003	NA	NA	NA	NA	NA	NA	NA	76.92	13.17	63.75
MW-1	09/16/2003	NA	NA	NA	NA	NA	NA	NA	76.92	14.10	62.82
MW-1	12/03/2003	NA	NA	NA	NA	NA	NA	NA	76.92	13.93	62.99
MW-1	**03/11/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**76.92**	**12.04**	**64.88**

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	07/14/1988	ND	7.9	2.6	1.1	4	NA	NA	75.24	15.18	60.06
MW-2	10/04/1988	90	ND	1.3	2.3	12	NA	NA	75.24	15.30	59.94
MW-2	11/10/1988	ND	ND	ND	ND	2	NA	NA	75.24	15.17	60.07
MW-2	12/09/1988	ND	ND	0.6	ND	3	NA	NA	75.24	14.82	60.42
MW-2	01/20/1989	ND	ND	ND	ND	ND	NA	NA	75.24	14.54	60.70
MW-2	02/06/1989	NA	ND	ND	ND	ND	NA	NA	75.24	14.59	60.65
MW-2	03/10/1989	ND	ND	ND	ND	ND	NA	NA	75.24	14.88	60.36
MW-2	06/06/1989	ND	ND	0.5	ND	ND	NA	NA	75.24	15.30	59.94
MW-2	09/07/1989	ND	ND	ND	ND	ND	NA	NA	75.24	16.76	58.48
MW-2	12/18/1989	ND	ND	ND	ND	ND	NA	NA	75.24	16.65	58.59
MW-2	03/08/1990	ND	ND	ND	ND	ND	NA	NA	75.24	15.92	59.32
MW-2	06/07/1990	ND	ND	ND	ND	ND	NA	NA	75.24	16.10	59.14
MW-2	09/05/1990	ND	ND	ND	ND	ND	NA	NA	75.24	16.61	58.63
MW-2	12/03/1990	ND	ND	ND	ND	ND	NA	NA	75.24	17.06	58.18
MW-2	03/01/1991	ND	ND	ND	ND	ND	NA	NA	75.24	16.62	58.62
MW-2	06/03/1991	ND	ND	ND	ND	ND	NA	NA	75.24	16.65	58.59
MW-2	09/04/1991	ND	ND	ND	ND	ND	NA	NA	75.24	16.57	58.67
MW-2	03/13/1992	ND	ND	ND	ND	ND	NA	NA	75.24	14.66	60.58
MW-2	06/03/1992	ND	ND	ND	ND	ND	NA	NA	75.24	15.90	59.34
MW-2	08/19/1992	67	ND	ND	ND	ND	NA	NA	75.24	16.72	58.52
MW-2	11/16/1992	50	ND	ND	ND	1.2	NA	NA	75.24	16.66	58.58
MW-2	02/18/1993	52a	ND	ND	ND	ND	NA	NA	75.24	13.88	61.36
MW-2 (D)	02/18/1993	52a	ND	ND	ND	ND	NA	NA	75.24	13.88	61.36
MW-2	06/01/1993	ND	ND	ND	ND	ND	NA	NA	75.24	14.74	60.50
MW-2	08/30/1993	70a	ND	ND	ND	ND	NA	NA	75.24	15.85	59.39
MW-2	12/13/1993	68a	ND	ND	ND	ND	NA	NA	75.24	15.83	59.41
MW-2	03/03/1994	280a	ND	ND	ND	ND	NA	NA	75.24	14.80	60.44

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Oakland, CA

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MW-2	06/06/1994	ND	ND	ND	ND	ND	NA	NA	75.24	16.65	58.59
MW-2	09/12/1994	ND	ND	ND	ND	ND	NA	NA	75.24	16.72	58.52
MW-2	12/15/1994	230a	ND	ND	ND	ND	NA	NA	75.24	15.25	59.99
MW-2	03/13/1995	ND	2.9	6.3	ND	2.7	NA	NA	75.24	15.32	59.92
MW-2	04/21/1995	ND	ND	ND	ND	ND	NA	NA	75.24	NA	NA
MW-2	06/26/1995	ND	ND	ND	ND	ND	NA	NA	75.24	14.65	60.59
MW-2	09/12/1995	ND	ND	ND	ND	ND	NA	NA	75.24	15.78	59.46
MW-2	03/21/1996	<50	<0.5	<0.5	<0.5	<0.5	ND	NA	75.24	12.72	62.52
MW-2	06/28/1996	<50	<0.5	<0.5	<0.5	<0.5	160	NA	75.24	14.95	60.29
MW-2	09/19/1996	<50	<0.5	<0.5	<0.5	<0.5	27	NA	75.24	15.64	59.60
MW-2	12/19/1996	NA	NA	NA	NA	NA	NA	NA	75.24	14.47	60.77
MW-2	12/05/1997	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	75.24	14.97	60.27
MW-2	12/23/1999	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	75.24	15.78	59.46
MW-2	12/27/2001	NA	NA	NA	NA	NA	NA	95	75.24	14.25	60.99
MW-2	03/14/2002	120	<0.50	<0.50	<0.50	<0.50	NA	31	75.24	14.59	60.65
MW-2	06/13/2002	100	<0.50	<0.50	<0.50	<0.50	NA	32	75.24	14.58	60.66
MW-2	09/09/2002	90	<0.50	<0.50	<0.50	<0.50	NA	54	78.25	15.49	62.76
MW-2	12/12/2002	92	<0.50	<0.50	<0.50	<0.50	NA	21	78.25	16.21	62.04
MW-2	03/10/2003	110	<0.50	<0.50	<0.50	<0.50	NA	33	78.25	14.33	63.92
MW-2	06/10/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	49	78.25	14.48	63.77
MW-2	09/16/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	39	78.25	15.45	62.80
MW-2	12/03/2003	56 a	<0.50	<0.50	<0.50	<1.0	NA	3.6	78.25	15.60	62.65
MW-2	**03/11/2004**	**58 a**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**67**	**78.25**	**13.78**	**64.47**
MW-3	07/14/1988	ND	ND	ND	ND	ND	NA	NA	74.68	14.05	60.63

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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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	10/04/1988	ND	ND	ND	ND	5	NA	NA	74.68	14.60	60.08
MW-3	11/10/1988	ND	ND	ND	ND	ND	NA	NA	74.68	14.35	60.33
MW-3	12/09/1988	ND	ND	ND	ND	ND	NA	NA	74.68	14.04	60.64
MW-3	01/10/1989	ND	ND	ND	ND	NA	NA	NA	74.68	13.70	60.98
MW-3	01/20/1989	NA	NA	ND	ND	ND	NA	NA	74.68	13.72	60.96
MW-3	02/06/1989	70	ND	ND	ND	ND	NA	NA	74.68	13.75	60.93
MW-3	03/10/1989	150	ND	ND	ND	ND	NA	NA	74.68	13.42	61.26
MW-3	06/06/1989	ND	ND	ND	ND	ND	NA	NA	74.68	14.52	60.16
MW-3	09/07/1989	ND	0.65	ND	ND	ND	NA	NA	74.68	15.52	59.16
MW-3	12/18/1989	46	1.3	ND	0.44	0.66	NA	NA	74.68	19.59	55.09
MW-3	03/08/1990	ND	ND	ND	ND	ND	NA	NA	74.68	14.72	59.96
MW-3	06/07/1990	ND	ND	ND	ND	ND	NA	NA	74.68	14.65	60.03
MW-3	09/05/1990	ND	ND	ND	ND	ND	NA	NA	74.68	15.51	59.17
MW-3	12/03/1990	ND	ND	ND	ND	ND	NA	NA	74.68	14.85	59.83
MW-3	03/01/1991	1.9	59	ND	22	ND	NA	NA	74.68	14.92	59.76
MW-3	06/03/1991	ND	ND	ND	ND	ND	NA	NA	74.68	14.75	59.93
MW-3	09/04/1991	ND	ND	ND	ND	ND	NA	NA	74.68	15.14	59.54
MW-3	03/13/1992	ND	ND	ND	ND	ND	NA	NA	74.68	13.50	61.18
MW-3	06/03/1992	ND	ND	ND	ND	ND	NA	NA	74.68	14.39	60.29
MW-3	08/19/1992	92	ND	ND	ND	ND	NA	NA	74.68	15.08	59.60
MW-3 (D)	08/19/1992	76	ND	ND	ND	ND	NA	NA	74.68	15.08	59.60
MW-3	11/16/1992	200a	ND	ND	ND	ND	NA	NA	74.68	15.43	59.25
MW-3 (D)	11/16/1992	140a	ND	ND	ND	ND	NA	NA	74.68	15.43	59.25
MW-3	02/18/1993	680a	ND	ND	ND	ND	NA	NA	74.68	12.96	61.72
MW-3	06/01/1993	160a	ND	ND	ND	ND	NA	NA	74.68	13.98	60.70
MW-3 (D)	06/01/1993	150a	ND	ND	ND	ND	NA	NA	74.68	13.98	60.70
MW-3	08/30/1993	110a	ND	ND	ND	ND	NA	NA	74.68	14.82	59.86

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	12/13/1993	140a	ND	ND	ND	ND	NA	NA	74.68	14.70	59.98
MW-3 (D)	12/13/1993	110a	ND	ND	ND	ND	NA	NA	74.68	14.70	59.98
MW-3	03/03/1994	61a	ND	ND	ND	ND	NA	NA	74.68	13.92	60.76
MW-3	06/06/1994	ND	ND	ND	ND	ND	NA	NA	74.68	14.73	59.95
MW-3	09/12/1994	ND	ND	ND	ND	ND	NA	NA	74.68	15.42	59.26
MW-3	12/15/1994	ND	ND	0.9	ND	0.6	NA	NA	74.68	13.80	60.88
MW-3	03/13/1995	100a	7.9	17	0.7	6.1	NA	NA	74.68	12.41	62.27
MW-3	04/21/1995	60	0.9	1.1	ND	1	NA	NA	74.68	NA	NA
MW-3	06/26/1995	ND	ND	ND	ND	ND	NA	NA	74.68	13.79	60.89
MW-3	09/12/1995 b	ND	ND	ND	ND	ND	NA	NA	74.68	14.77	59.91
MW-3	03/21/1996	<50	<0.5	<0.5	<0.5	<0.5	17	NA	74.68	11.80	62.88
MW-3	06/28/1996	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	74.68	14.19	60.49
MW-3	09/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	74.68	14.85	59.83
MW-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	74.68	13.61	61.07
MW-3	12/05/1997	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	74.68	14.08	60.60
MW-3	12/23/1999	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	74.68	15.31	59.37
MW-3	12/27/2001	NA	NA	NA	NA	NA	NA	NA	74.68	12.84	61.84
MW-3	03/12/2002	NA	NA	NA	NA	NA	NA	NA	74.68	12.54	62.14
MW-3	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	40	74.68	12.78	61.90
MW-3	06/13/2002	NA	NA	NA	NA	NA	NA	NA	74.68	14.06	60.62
MW-3	09/09/2002	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	77.69	15.11	62.58
MW-3	03/10/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	5.4	77.69	13.52	64.17
MW-3	06/10/2003	NA	NA	NA	NA	NA	NA	NA	77.69	13.82	63.87
MW-3	09/16/2003	NA	NA	NA	NA	NA	NA	NA	77.69	14.60	63.09

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	12/03/2003	NA	NA	NA	NA	NA	NA	NA	77.69	14.53	63.16
MW-3	**03/11/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**3.5**	**77.69**	**12.38**	**65.31**
MW-4	01/23/1990	1,600	100	10	30	20	NA	NA	73.83	14.68	59.15
MW-4	03/08/1990	4,200	260	18	88	39	NA	NA	73.83	14.38	59.45
MW-4	06/07/1990	2,000	150	6.9	14	17	NA	NA	73.83	14.27	59.56
MW-4	09/05/1990	1,700	130	10	7.2	19	NA	NA	73.83	15.40	58.43
MW-4	12/03/1990	2,600	108	41	17	59	NA	NA	73.83	15.90	57.93
MW-4	06/03/1991	2,800	160	15	8.8	32	NA	NA	73.83	14.60	59.23
MW-4	09/04/1991	Sheen	NA	NA	NA	NA	NA	NA	73.83	15.25	58.58
MW-4	03/13/1992	2,700	180	70	5.9	29	NA	NA	73.83	12.72	61.11
MW-4	06/03/1992	1,700	190	ND	30	23	NA	NA	73.83	14.33	59.50
MW-4	08/19/1992	170	4.2	ND	0.6	1	NA	NA	73.83	15.18	58.65
MW-4	11/16/1992	2,600	92	49	50	81	NA	NA	73.83	15.39	58.44
MW-4	02/18/1993	7,400	120	38	51	87	NA	NA	73.83	12.62	61.21
MW-4	06/01/1993	7,000	1,800	1,700	1,600	1,700	NA	NA	73.83	13.68	60.15
MW-4	08/30/1993	2,100	80	11	ND	11	NA	NA	73.83	14.83	59.00
MW-4 (D)	08/30/1993	2,100	77	5.6	ND	5.5	NA	NA	73.83	14.83	59.00
MW-4	12/13/1993	2,000a	20	ND	21	52	NA	NA	73.83	14.50	59.33
MW-4	03/03/1994	3,500	150	86	85	90	NA	NA	73.83	13.48	60.35
MW-4 (D)	03/03/1994	3,200	130	73	74	76	NA	NA	73.83	13.48	60.35
MW-4	06/06/1994	590	25	ND	ND	ND	NA	NA	73.83	14.26	59.57
MW-4 (D)	06/06/1994	400	16	ND	ND	ND	NA	NA	73.83	14.26	59.57
MW-4	09/12/1994	1,800	42	ND	3.7	4.7	NA	NA	73.83	15.42	58.41
MW-4 (D)	09/12/1994	2,000	40	ND	5.7	8	NA	NA	73.83	15.42	58.41
MW-4	12/15/1994	2,900	78	14	94	17	NA	NA	73.83	13.43	60.40
MW-4 (D)	12/15/1994	2,900	90	7	96	18	NA	NA	73.83	13.43	60.40

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	03/13/1995	2,700	240	24	99	34	NA	NA	73.83	12.13	61.70
MW-4 (D)	03/13/1995	2,500	300	24	140	28	NA	NA	73.83	12.13	61.70
MW-4	06/25/1995	2,100	87	10	67	25	NA	NA	73.83	13.26	60.57
MW-4 (D)	06/25/1995	2,300	92	12	74	26	NA	NA	73.83	13.26	60.57
MW-4	09/12/1995 b	1,300	33	13	9.3	15	NA	NA	73.83	14.64	59.19
MW-4 (D)	09/12/1995 b	1,500	2.1	16	11	17	NA	NA	73.83	14.64	59.19
MW-4	03/21/1996	2,100	50	3.2	40	5.4	ND	NA	73.83	11.55	62.28
MW-4 (D)	03/21/1996	1,700	24	<0.5	39	7.2	740	NA	73.83	11.55	62.28
MW-4	06/28/1996	1,300	61	6.2	53	11	1,000	NA	73.83	13.86	59.97
MW-4 (D)	06/28/1996	1,200	29	6.2	50	8.3	1,000	NA	73.83	13.86	59.97
MW-4	09/19/1996	820	12	<2.5	2.8	4.3	720	NA	73.83	14.72	59.11
MW-4 (D)	09/19/1996	580	9.6	<2.5	<2.5	<2.5	760	1,200	73.83	14.72	59.11
MW-4	12/19/1996	1,200	28	<5.0	<5.0	<5.0	<25	NA	73.83	13.06	60.77
MW-4	12/05/1997	1,900	36	9	16	18	630	NA	73.83	12.89	60.94
MW-4	12/24/1998	1,100	23	5.3	38	7.9	1,100	NA	73.83	13.92	59.91
MW-4	12/17/1999	1,100	22	21	13	11	3,800	3,200	73.83	14.28	59.55
MW-4	12/23/1999	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	73.83	14.15	59.68
MW-4	12/27/2001	2,000	9.9	<5.0	18	<5.0	NA	1,400	73.83	12.61	61.22
MW-4	03/14/2002	1,700	6.6	<2.0	2.1	2.1	NA	1,100	73.83	12.35	61.48
MW-4	06/13/2002	1,200	4.7	<2.0	<2.0	<2.0	NA	1,100	73.83	13.72	60.11
MW-4	09/09/2002	620	3.7	<2.0	<2.0	<2.0	NA	760	76.82	14.56	62.26
MW-4	12/12/2002	1,500	3.9	<2.0	<2.0	<2.0	NA	880	76.82	14.82	62.00
MW-4	03/10/2003	2,300	5.7	0.95	3.8	0.63	NA	1,200	76.82	13.63	63.19
MW-4	06/10/2003	2,200	5.3	<5.0	<5.0	<10	NA	880	76.82	13.68	63.14
MW-4	09/16/2003	1,400	<5.0	<5.0	<5.0	<10	NA	420	76.82	14.35	62.47
MW-4	12/03/2003	2,600	5.0	<5.0	<5.0	<10	NA	840	76.82	14.27	62.55

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	03/11/2004	1900 a	6.3	<5.0	<5.0	<10	NA	800	76.82	12.62	64.20

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

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

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.

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

SEVERN TRENT STL

Submission#: 2004-03-0454

Blaine Tech Services, Inc.

March 29, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 040311-MD2
Project: 98995741
Site: 230 W. MacArthur Blvd., Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 03/12/2004 13:16
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 04/26/2004 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

SEVERN TRENT STL

Submission #: 2004-03-0454

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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/11/2004 14:55	Water	1
MW-2	03/11/2004 15:15	Water	2
MW-3	03/11/2004 15:05	Water	3
MW-4	03/11/2004 15:20	Water	4

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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1**	Lab ID:	2004-03-0454 - 1
Sampled:	03/11/2004 14:55	Extracted:	3/24/2004 03:50
Matrix:	Water	QC Batch#:	2004/03/23-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/24/2004 03:50	
Benzene	ND	0.50	ug/L	1.00	03/24/2004 03:50	
Toluene	ND	0.50	ug/L	1.00	03/24/2004 03:50	
Ethylbenzene	ND	0.50	ug/L	1.00	03/24/2004 03:50	
Total xylenes	ND	1.0	ug/L	1.00	03/24/2004 03:50	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	03/24/2004 03:50	
Surrogate(s)						
1,2-Dichloroethane-d4	93.0	76-130	%	1.00	03/24/2004 03:50	
Toluene-d8	88.6	78-115	%	1.00	03/24/2004 03:50	

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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-2**	Lab ID:	2004-03-0454 - 2
Sampled:	03/11/2004 15:15	Extracted:	3/24/2004 04:14
Matrix:	Water	QC Batch#:	2004/03/23-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	58	50	ug/L	1.00	03/24/2004 04:14	g
Benzene	ND	0.50	ug/L	1.00	03/24/2004 04:14	
Toluene	ND	0.50	ug/L	1.00	03/24/2004 04:14	
Ethylbenzene	ND	0.50	ug/L	1.00	03/24/2004 04:14	
Total xylenes	ND	1.0	ug/L	1.00	03/24/2004 04:14	
Methyl tert-butyl ether (MTBE)	67	0.50	ug/L	1.00	03/24/2004 04:14	
Surrogate(s)						
1,2-Dichloroethane-d4	94.0	76-130	%	1.00	03/24/2004 04:14	
Toluene-d8	87.7	78-115	%	1.00	03/24/2004 04:14	

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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-3**	Lab ID:	2004-03-0454 - 3
Sampled:	03/11/2004 15:05	Extracted:	3/24/2004 04:36
Matrix:	Water	QC Batch#:	2004/03/23-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/24/2004 04:36	
Benzene	ND	0.50	ug/L	1.00	03/24/2004 04:36	
Toluene	ND	0.50	ug/L	1.00	03/24/2004 04:36	
Ethylbenzene	ND	0.50	ug/L	1.00	03/24/2004 04:36	
Total xylenes	ND	1.0	ug/L	1.00	03/24/2004 04:36	
Methyl tert-butyl ether (MTBE)	3.5	0.50	ug/L	1.00	03/24/2004 04:36	
Surrogate(s)						
1,2-Dichloroethane-d4	95.0	76-130	%	1.00	03/24/2004 04:36	
Toluene-d8	85.5	78-115	%	1.00	03/24/2004 04:36	

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

Blaine Tech Services, Inc.

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

Project: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Prep(s): 5030B
Test(s): 8260B
Sample ID: MW-4
Lab ID: 2004-03-0454 - 4
Sampled: 03/11/2004 15:20
Extracted: 3/24/2004 04:59
Matrix: Water
QC Batch#: 2004/03/23-2A.65
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1900	500	ug/L	10.00	03/24/2004 04:59	g
Benzene	6.3	5.0	ug/L	10.00	03/24/2004 04:59	
Toluene	ND	5.0	ug/L	10.00	03/24/2004 04:59	
Ethylbenzene	ND	5.0	ug/L	10.00	03/24/2004 04:59	
Total xylenes	ND	10	ug/L	10.00	03/24/2004 04:59	
Methyl tert-butyl ether (MTBE)	800	5.0	ug/L	10.00	03/24/2004 04:59	
Surrogate(s)						
1,2-Dichloroethane-d4	102.3	76-130	%	10.00	03/24/2004 04:59	
Toluene-d8	90.3	78-115	%	10.00	03/24/2004 04:59	

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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2004/03/23-2A.65-051

Water

Test(s): 8260B
QC Batch # 2004/03/23-2A.65
Date Extracted: 03/23/2004 20:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/23/2004 20:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/23/2004 20:51	
Benzene	ND	0.5	ug/L	03/23/2004 20:51	
Toluene	ND	0.5	ug/L	03/23/2004 20:51	
Ethylbenzene	ND	0.5	ug/L	03/23/2004 20:51	
Total xylenes	ND	1.0	ug/L	03/23/2004 20:51	
Surrogates(s)					
1,2-Dichloroethane-d4	80.8	76-130	%	03/23/2004 20:51	
Toluene-d8	88.0	78-115	%	03/23/2004 20:51	

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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Laboratory Control Spike — **Water** — **QC Batch # 2004/03/23-2A.65**

LCS 2004/03/23-2A.65-001 — Extracted: 03/23/2004 — Analyzed: 03/23/2004 19:01

LCSD 2004/03/23-2A.65-024 — Extracted: 03/23/2004 — Analyzed: 03/23/2004 19:24

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.6	17.7	25	86.4	70.8	19.8	65-165	20		
Benzene	23.1	23.2	25	92.4	92.8	0.4	69-129	20		
Toluene	23.2	23.6	25	92.8	94.4	1.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	452	403	500	90.4	80.6		76-130			
Toluene-d8	455	448	500	91.0	89.6		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: 040311-MD2
98995741

Received: 03/12/2004 13:16

Site: 230 W. MacArthur Blvd., Oakland

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.

Lab Identification (if necessary):
Address:
City, State, Zip:

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-03-0454

INCIDENT NUMBER (S&E ONLY)							
9	8	9	9	5	7	4	1
SAP or CRMT NUMBER (TS/CRMT)							
[redacted]							

DATE: 3/11/04
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
SITE ADDRESS (Street and City): 230 W. MacArthur Blvd., Oakland
GLOBAL ID NO.: T0600101240
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112
EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml
PHONE NO.: (510) 420-3335
E-MAIL: ShellOaklandEDF@cambria-env.com
CONSULTANT PROJECT NO.: 040311-MD2
BTS #
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart
SAMPLER NAME(S) (Print): Johnathan De Jong
TELEPHONE: 408-573-0555
FAX: 408-573-7771
E-MAIL: lgearhart@blainetech.com
LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ____

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

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

REQUESTED ANALYSIS

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

TEMPERATURE ON RECEIPT C°: 4.1°C

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	Field Notes
	MW-1	3/11/04	1455	W	3	✓	✓		✓					
	MW-2	↓	1515	↓	3	✓	✓		✓					
	MW-3	↓	1505	↓	3	✓	✓		✓					
	MW-4	↓	1520	↓	3	✓	✓		✓					

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature]	3/12/04	1316
[signature] 3/12/04 1638			
	Denise Harrington	3/12/04	1638

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

10/16/00 Revision

O&O Graphic (714) 898-9702

ATTACHMENT B

Groundwater Monitoring Data
240 West MacArthur

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

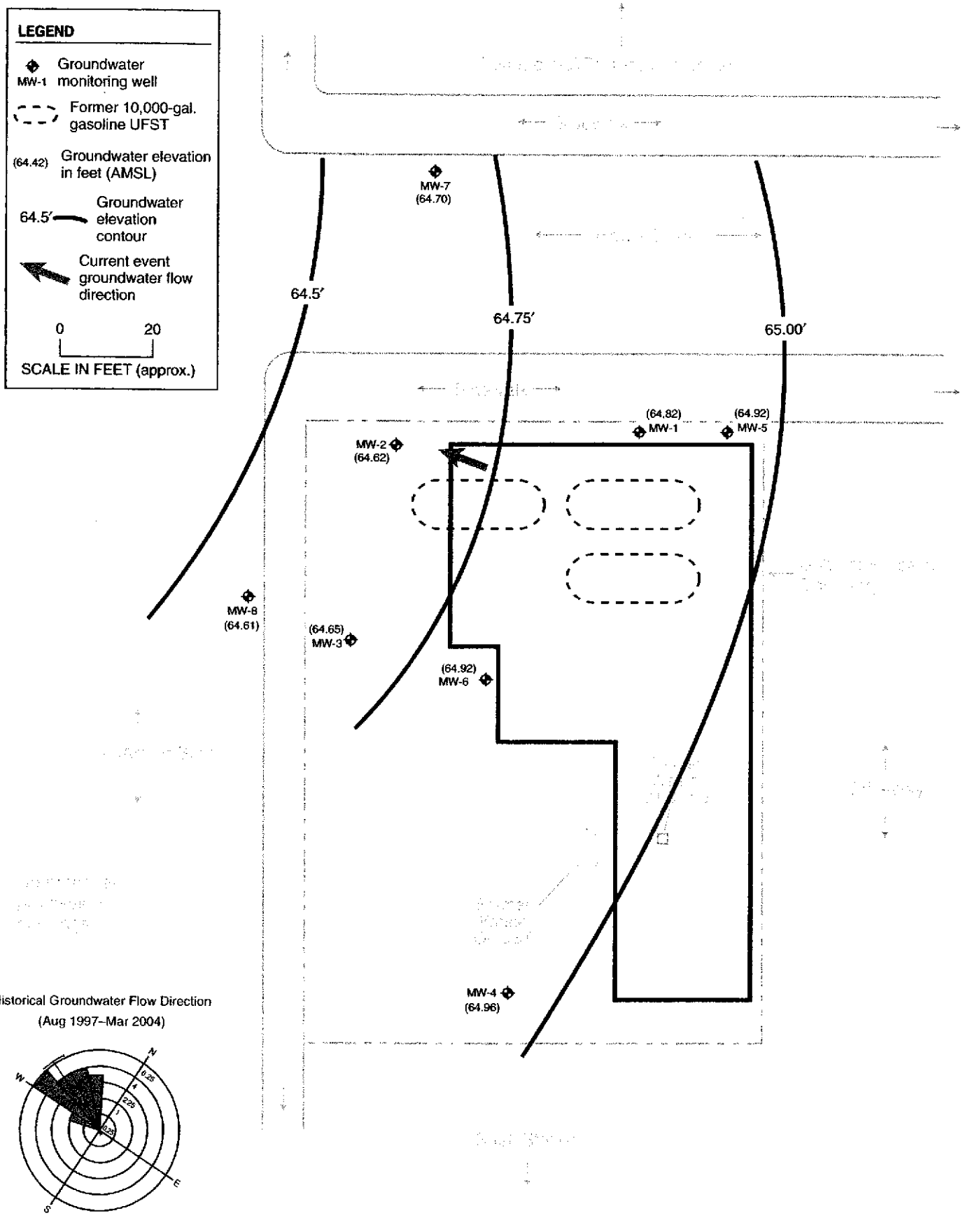
Well	Well Depth (feet bgs)	Screened Interval		Groundwater Level Depth [a] March 11, 2004	Groundwater Elevation [b] March 11, 2004
		Depth (feet)	Elevation (feet)		
MW-1	25	19.5 to 24.5	54.5 to 49.5	14.33	64.82[c]
MW-2	25	14.5 to 24.5	64.2 to 54.2	13.83	64.62[c]
MW-3	25	14.5 to 24.5	63.4 to 53.4	12.93	64.65[c]
MW-4	25	14.5 to 24.5	63.6 to 53.6	12.78	64.96[c]
MW-5	20	9 to 19	70.6 to 60.6	14.44	64.92
MW-6	20	9 to 19	69.7 to 59.7	13.51	64.92
MW-7	20	9 to 19	69.6 to 59.6	13.57	64.70
MW-8	20	9 to 19	67.7 to 57.7	11.78	64.61

Notes:

[a] Pre-purge measurement feet below top of well casing.

[b] Pre-purge measurement, feet above mean sea level.

[c] Equilibrated water level in well above top of screened interval.



N	GROUNDWATER ELEVATION MAP—MARCH 11, 2004		
240 W. MacArthur Blvd. Oakland, CA	By: MJC	MARCH 2004	★ Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 4		

2003-43-28

Table 3
Groundwater Sample Analytical Results – March 11, 2004
240 W. MacArthur Boulevard, Oakland, California [a]

Well	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDC [f]	EDB [f]
MW-1	11,300	1,100	483	97	122	452	67	*<0.17 / <5.0*	*<0.26 / < 5.0*
MW-2	2,700	100	12	16	9.0	12	249	*NA*	*NA*
MW-3	5,490	500	82	34	46	49	249	*NA*	*NA*
MW-4	*<50*	*NA*	*<0.3*	*<0.3*	*<0.3*	*<0.6*	*<5.0*	*NA*	*NA*
MW-5	20,700	850	867	266	305	678	145	*<0.17 / <12.5*	*<0.26 /< 12.5*
MW-6	215	140	4.0	1.2	1.4	1.4	3.7 [e]	31	*<0.26 / 5.0*
MW-7	86	*NA*	*<0.3*	*<0.3*	*<0.3*	*<0.6*	57	*NA*	*NA*
MW-8	412	*<100*	1.2	*<0.3*	1.7	3.9	66	*NA*	*NA*
Drinking Water Standards [b]									
	NLP	NLP	1.0 [c]	40	30	20	5.0	NLP	NLP
RWQCB Environmental Screening Levels [d]									
	100	100	1.0	40	30	13	5.0	0.5	0.05

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] State of California Primary MCL.

[d] For commercial/industrial sites where known/potential drinking water resource is threatened.

[e] Concentration detected between estimated quantitation (EQL) and method detection limit (MDL).

[f] First value is MDL and second value is EQL.

EDB = Ethylene dibromide (1,2-dibromoethane); EDC = Ethylene dichloride (1,2-dichloroethane); MTBE = Methyl *tertiary*-butyl ether; TPHg = Total petroleum hydrocarbons - gasoline range (equivalent to total volatile hydrocarbons - gasoline range); TPHd = Total petroleum hydrocarbons - diesel range (equivalent to total extractable hydrocarbons - diesel range); NA = Not analyzed for this contaminant; NLP = No level published.

DRAFT

Table 3
April 2004 Borehole Soil Sample Analytical Results
Fuels, Aromatic Hydrocarbons and MTBE
240 W. MacArthur Boulevard, Oakland, California
(all results reported in mg/kg)

Sample I.D.	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
BH-10-4.5'	*< 3.0*	1.5	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-10-9.5'	*< 3.0*	1.4	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-10-12'	*< 3.0*	1.4	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-10-17'	*< 3.0*	1.3	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-10-20.5' *	*< 3.0*	2.2	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-10-23.5' **	*< 3.0*	1.2	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-11-4.5'	*< 3.0*	1.6	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-11-9.5'	*< 3.0*	1.1	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-11-15'	*< 3.0*	1.4	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-11-21.5' *	*< 3.0*	2.5	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-11-23.5' **	*< 3.0*	1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-12-4.5'	*< 3.0*	2.2	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-12-9.5'	*< 3.0*	1.1	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-12-12'	*< 3.0*	1.5	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-12-16'-20' (a)	*< 3.0*	1.8	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-12-20.5' *	*< 3.0*	1.6	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-12-23.5' **	*< 3.0*	1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-13-4.5'	*< 3.0*	1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-13-9.5'	*< 3.0*	1.5	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-13-15.5'	3,240	215	3.3	6.5	14	142	*< 3.5*
BH-13-19.5'	*< 3.0*	3.0	0.21	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-13-23.5' **	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-14-4.5'	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-14-9.5'	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-14-16'	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-14-20' *	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-14-21.5' **	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-15-4.5'	*< 3.0*	*< 1.0*	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-15-9.5'	*< 3.0*	1.2	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-15-15'	*< 3.0*	<1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-15-20' *	*< 3.0*	<1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-15-23.5' **	*< 3.0*	<1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-16-4.5'	*< 3.0*	<1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-16-9.5'	*< 3.0*	1.2	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.015*	*< 0.035*
BH-16-15'	2,950	10	2.8	12	19	72	*< 17.5*
BH-16-20' *	352	10	*< 0.25*	1.2	*< 0.25*	6.9	*< 1.75*
BH-16-23.5' **	4.0	1.8	*< 0.005*	0.015	0.027	0.081	*< 0.035*
BH-16-27.5' **	*< 3.0*	<1.0	*< 0.005*	*< 0.005*	*< 0.005*	*< 0.005*	0.043

BH-17-4.5'	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-17-9.5'	< 3.0	1.4	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-17-15'	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-17-20' *	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-17-23.5' **	< 3.0	1.1	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-18-4.5'	< 3.0	1.0	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-18-9.5'	< 3.0	1.0	< 0.005	< 0.005	< 0.005	< 0.015	< 0.035
BH-18-17'	17	6.0	< 0.005	0.035	0.12	0.29	0.25
BH-18-20' *	45	3.8	0.049	0.15	0.24	0.56	0.84
BH-19-4.5'	< 3.0	1.7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-19-9'	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-19-13'	105	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-19-18'	859	66	< 0.500	< 0.500	0.616	0.714	< 0.500
BH-19-21' *	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-19-23.5' **	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-20-4.5'	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-20-9'	12	21	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
BH-20-13'	9.5	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-20-20'	353	20	< 0.050	< 0.050	0.0075	0.039	< 0.050
BH-20-21.5' *	1,060	50	< 0.500	< 0.500	< 0.500	5.34	< 0.500
BH-20-23.5' **	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-21-4.5'	< 3.0	1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-21-9.5'	< 3.0	1.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-21-15.5'	690	43	< 0.500	< 0.500	0.823	3.980	< 0.500
BH-21-20.5' *	84	<1.0	.056	<0.025	0.060	0.245	<0.025
BH-21-21.5' **	< 3.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
RWQCB Environmental Screening Levels (b)							
(c)	100	100	0.044	2.9	3.3	1.5	0.023
(d)	400	500	0.038	9.3	13	1.5	5.6
(e)	NLP	NLP	0.39	89	220	210	12

Notes:
* Sample collected within the saturated zone
** Sample collected beneath the saturated zone
(a) Depth of sample uncertain due to minimal recovery in sampling sleeve.
(b) All for commercial/industrial sites
(c) For sites where known/potential drinking water resource is threatened
(d) For sites where known/potential drinking water resource is not threatened
(e) For protection of indoor air quality (assuming coarse soils)

MTBE = Methyl *tertiary*-butyl ether. NLP = No Level Published
TVHg = Total volatile hydrocarbons - gasoline range (equivalent to total petroleum hydrocarbons - gasoline range).
TEHd = Total extractable hydrocarbons - diesel range (equivalent to total petroleum hydrocarbons - diesel range).

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Table 3
April 2004 Borehole Soil Sample Analytical Results
Lead Scavengers and Fuel Oxygenates
240 W. MacArthur Boulevard, Oakland, California
(all results reported in mg/kg)

Sample I.D.	EDC	EDB	ETBE	DIPE	TAME	TBA
BH-19-4.5'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-19-9'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-19-13'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-19-18'	*< 0.500*	*< 0.500*	*< 1*	*< 1*	*< 1*	*< 5*
BH-19-21' *	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-19-23.5' **	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-20-4.5'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-20-9'	*< 0.025*	*< 0.025*	*< 0.05*	*< 0.05*	*< 0.05*	*< 0.25*
BH-20-13'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-20-20'	*< 0.050*	*< 0.050*	*< 0.1*	*< 0.1*	*< 0.1*	*< 0.5*
BH-20-21.5' *	*< 0.500*	*< 0.500*	*< 1*	*< 1*	*< 1*	*< 5*
BH-20-23.5' **	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-21-4.5'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-21-9.5'	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
BH-21-15.5'	*< 0.500*	*< 0.500*	*< 1*	*< 1*	*< 1*	*< 5*
BH-21-20.5' *	*<0.025*	*<0.025*	*< 0.05*	*< 0.05*	*< 0.05*	*< 0.25*
BH-21-21.5' **	*< 0.005*	*< 0.005*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.05*
RWQCB Environmental Screening Levels (b)						
(c)	0.0045	0.00033	NLP	NLP	NLP	0.073
(d)	0.069	0.021	NLP	NLP	NLP	0.073
(e)	0.14	0.052	NLP	NLP	NLP	NLP

Notes:
Samples BH-10 through BH-18 (non-source area boreholes) were not analyzed for lead scavengers or fuel oxygenates.
* Sample collected within the saturated zone
** Sample collected beneath the saturated zone
(a) Depth of sample uncertain due to minimal recovery in sampling sleeve.
(b) All for commercial/industrial sites
(c) For sites where known/potential drinking water resource is threatened
(d) For sites where known/potential drinking water resource is not threatened
(e) For protection of indoor air quality (assuming coarse soils)

EDB = Ethylene dibromide (1,2-dibromoethane). EDC = Ethylene dichloride (1,2-dichloroethane).
DIPE = isopropyl ether. ETBE = Ethyl-tertbutyl ether. TAME = Tert-amylmethylether
TBA = Tertiary butyl alcohol NLP = No Level Published

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Table 5
April 2004 Borehole Grab-Groundwater Sample Analytical Results
Fuels, Aromatic Hydrocarbons and MTBE
240 W. MacArthur Boulevard, Oakland, California
(all results reported in µg/L)

Sample I.D.	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
BH-10-GW	78	*< 100*	1.4	6.5	1.8	7.0	20
BH-11-GW	74	*< 100*	3.4	8.4	2.0	8.5	*<5.0*
BH-12-GW	77	*< 100*	1.4	7.7	2.0	9.2	*<5.0*
BH-13-GW	68,300	300	617	527	668	4,680	548
BH-14-GW	923	170	13	5.1	6.1	8.5	189
BH-15-GW	742	*< 100*	1.8	2.7	1.7	4.7	400
BH-16-GW	26,800	300	73	138	222	946	288
BH-17-GW	206	*< 100*	*< 1.0*	2.9	*< 5*	3.0	143
BH-18-GW	3,220	1,000	*< 10*	*< 10*	76	232	348
BH-19-GW	10,000	1,300	24	*< 50*	65	108	*< 10*
BH-20-GW	122,000	2,700	1,830	69	227	1,430	18
BH-21-GW	10,300	1,900	485	70	474	2,620	*< 10*
RWQCB Environmental Screening Levels (a)							
(b)	100	100	1.0	40	30	13	5.0
(c)	500	640	46	130	290	13	1,800
(d)	NLP	NLP	350	270,000	170,000	160,000	210,000

Notes:

[a] All for commercial/industrial sites
[b] For sites where known/potential drinking water resource is threatened
[c] For sites where known/potential drinking water resource is not threatened
(d) For protection of indoor air quality (assuming coarse soils)

MTBE = Methyl *tertiary*-butyl ether.
NLP = No Level Published
TVHg = Total volatile hydrocarbons - gasoline range (equivalent to total petroleum hydrocarbons - gasoline range).
TEHd = Total extractable hydrocarbons - diesel range (equivalent to total petroleum hydrocarbons - diesel range).

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Table 6
April 2004 Borehole Grab-Groundwater Sample Analytical Results
Lead Scavengers and Fuel Oxygenates
240 W. MacArthur Boulevard, Oakland, California
(all results reported in µg/L)

Sample I.D.	EDC	EDB	ETBE	DIPE	TAME	TBA
BH-17-GW	*< 5*	*< 5*	*< 1*	*< 1*	*< 1*	*< 10*
BH-18-GW	*< 50*	*< 50*	*< 10*	*< 10*	*< 10*	*< 100*
BH-19-GW	*< 50*	*< 50*	*< 10*	*< 10*	*< 10*	*< 100*
BH-20-GW	*< 50*	*< 50*	*< 10*	*< 10*	*< 10*	114
BH-21-GW	*< 50*	*< 50*	*< 10*	*< 10*	*< 10*	*< 100*
RWQCB Environmental Screening Levels (a)						
(b)	0.5	0.05	NLP	NLP	NLP	12
(c)	200	160	NLP	NLP	NLP	12
(d)	2,100	350	NLP	NLP	NLP	NLP

Notes:
Samples BH-10 through BH-16 (non-source area boreholes) were not analyzed for lead scavengers or fuel oxygenates.
(a) All for commercial/industrial sites
(b) For sites where known/potential drinking water resource is threatened
(c) For sites where known/potential drinking water resource is not threatened
(d) For protection of indoor air quality (assuming coarse soils)

EDB = Ethylene dibromide (1,2-dibromoethane). EDC = Ethylene dichloride (1,2-dichloroethane).
DIPE = isopropyl ether. ETBE = Ethyl-tertbutyl ether. TAME = Tert-amylmethylether
TBA = Tertiary butyl alcohol NLP = No Level Published
NA = Not Analyzed for this contaminant. NLP = No Level Published. TBA – Tertiary butyl alcohol
Table includes only detected fuel oxygenates and lead scavengers. See Appendix G for complete list of analytes and method reporting limits.
TVHg = Total volatile hydrocarbons - gasoline range (equivalent to total petroleum hydrocarbons - gasoline range).
TEHd = Total extractable hydrocarbons - diesel range (equivalent to total petroleum hydrocarbons - diesel range).