RO 145

Shell Oil Products US

Alameda County

DEC 17 2003

Environmental Health

December 16, 2003

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

Subject: Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

Dear Mr. Hwang:

Attached for your review and comment is a copy of the *Sensitive Receptor Survey, Geologic Cross Sections and Fourth Quarter 2003 Groundwater 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

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

December 16, 2003

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

Re: **Sensitive Receptor Survey, *Geologic Cross Sections and* Groundwater Monitoring Report - Fourth Quarter 2003**
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident #97093397

Dear Mr. Hwang:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the results of a sensitive receptor survey, submit geologic cross-sections, provide the results of the fourth quarter monitoring event in accordance with the quarterly reporting requirements of 23 CCR 2652d, and to make recommendations for additional investigation.

SENSITIVE RECEPTOR SURVEY

Cambria performed a sensitive receptor survey to identify water production wells, basements, and surface water bodies within a 500-foot radius of the site. Figure 1 shows the area encompassed by the sensitive receptor survey.

Record Review: Cambria reviewed the State Water Resources Control Board Geotracker database to determine if any water production wells were present within 500 feet of the site. The database indicated that there are no public water supply wells nearby the subject site. The California Department of Water Resources (DWR) records were reviewed during a well survey performed in 2000. DWR records did not have driller's logs for any wells within ½-mile of the site.

Door-to-Door Survey: Cambria conducted a door-to-door survey with a 500-foot radius to identify water production wells and basements near the subject site. Cambria visited 117 addresses and also mailed questionnaires to the property owners. During the door-to-door survey, 20 residents were present and participated in the survey. Cambria received 17 responses to the mailed questionnaires. The door-to-door survey results are summarized in Table 1. Through this survey, Cambria did not identify any water wells but did identify seven structures with

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basements. The locations of these basements are plotted on Figure 1 and additional information regarding the basements is summarized in Table 2. As shown on Figure 1, the nearest structure with a basement is located approximately 180 feet west of the site, and has a concrete floor.

The questionnaire that was mailed also aksed about the presence of underground storage tanks (USTs) at each location. Of the 17 responses received, no USTs were known to be present.

Map Review: Cambria reviewed United States Geologic Survey (USGS) topographic map for Oakland West to identify surface water bodies or other potential receptors within the survey area.

- The nearest surface water body is Lake Merritt, which is located over one-half mile southeast of the subject site (Figure 1).
- Surface water tributaries and drainages are directed through underground storm drains in this area. These storm drains are situated approximately nine fbg in the vicinity of Telegraph Avenue and 27th Street.
- A review of the USGS topographic map also identified a school approximately 500 feet northwest of the site.

Subsurface Utility Conduits: During prevous work at the site, the locations of the sanitary sewer and storm drains were identified (Figure 2). The depths of these utilities are approximately 5-7 fbg for the sanitary sewer and approxiamtely 9 fbg for the storm drains. Given the shallowness of the groundwater at this site, the groundwater does intersect these utility conduits, which may provide a preferential pathway for migration of contaminants.

Summary of SRS Results: No wells of any kind were identified through the 500-foot radius survey. Seven structures with basements were identified and are plotted on Figure 1. The nearest one is concrete-floored and located approximately 180 feet west of the site. The nearest surface water body is Lake Merritt, ½-mile southeast of the site. Storm drains and sanitary sewer lines are located in close proximity to the site and may provide preferential pathways for contaminant migration. One school was identified approximately 500 feet northwest of the site.

GEOLOGIC CROSS-SECTIONS

In a previous communication with the Alameda County Health Care Services Agency (ACHCSA), a request for preparation of geologic cross-sections was made. Two geologic cross-sections have been prepared and are included as Figures 3 and 4 herein.

FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, measured dissolved oxygen (DO) concentrations in selected wells, and prepared a summary table of field gauging data and petroleum hydrocarbon and methyl tertiary butyl ether concentrations. Cambria prepared an area well survey map (Figure 1) and a groundwater contour/chemical concentration map (Figure 2). Blaine's report, presenting the laboratory report, is included as Appendix A.

The groundwater flow this quarter is to the the south-southeast at an approximate hydraulic gradient of 0.021

Oxygen Releasing Compound (ORC): ORC socks are currently installed in onsite wells V-2 and MW-5 to enhance intrinsic biodegradation at the site. The ORC socks were replaced in both wells during the fourth quarter event. DO measurements are included on the Blaine table in Appendix A.

ANTICIPATED FIRST QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample the site wells according to the existing sampling schedule, measure DO concentrations in all site wells, and tabulate the data. Cambria will prepare a groundwater monitoring report.

RECOMMENDATIONS

Quarterly Monitoring Program: Cambria recommends that chemical analyses for wells MW-1, MW-2 and MW-3 be discontinued since they have been below the laboratory detection limits for total petroleum hydrocarbons as gasoline (TPHg) and benzene for seven years in wells MW-1 and MW-2 and three years in MW-3. Also, given the absence of MTBE (by EPA Method 8260B) in all of the site wells, no further sampling for MTBE should be performed.

Site Investigation: Although it appears that an upgradient source may be responsible for the impact observed at this site, particularly in the northwest corner, no other source has been identified. Because the lateral and vertical extent have not been delineated and there are residences in close proximity to the site, Cambria recommends additional investigation of the soil and water conditions to the north, west and south of the site. A site visit should be performed in order to generate an accurate extended site map, and then a work plan should be developed that

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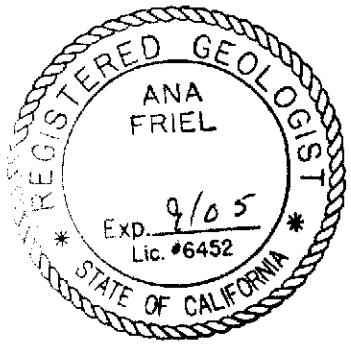
CLOSING

If you have any questions regarding the contents of this document, please call Ana Friel at (707) 442-2700.

Sincerely,
Cambria Environmental Technology, Inc

Anne Wettstone
Staff Geologist

Ana Friel, RG
Senior Project Geologist
RG 6452



Attachments:

Table 1.	Door-to-Door Survey Results
Table 2.	Basement Data
Figure 1.	Site Vicinity/Receptor Survey Map
Figure 2.	Groundwater Contour/Chemical Concentration Map
Figure 3.	Geologic Cross-Section A-A'
Figure 4.	Geologic Cross-Section B-B'
Appendix A.	Blaine Tech Services, Inc. - Groundwater Monitoring Report

cc: Karen Petryna, Shell Oil Products US
Rodney & Janet Kwan

Table 1. Door-to-Door Survey Results, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Address	Resident Present?	Rec'd Response to Flyer?	Well at Address?	Basement at Address?	UST at Address?	Comments
721 26th Street	No	No	Unknown	Unknown	Unknown	
717 26th Street	No	No	Unknown	Unknown	Unknown	
713 26th Street	Yes	-	No	No	No	
709 26th Street	No	No	Unknown	Unknown	Unknown	
701 26th Street	No	No	Unknown	Unknown	Unknown	
699 26th Street	No	No	Unknown	Unknown	Unknown	
691 26th Street	No	No	Unknown	Unknown	Unknown	
683 26th Street	No	No	Unknown	Unknown	Unknown	
679 26th Street	Yes	-	No	No	No	
669 26th Street	No	No	Unknown	Unknown	Unknown	
2565 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
650 Sycamore Street	Yes	-	No	No	No	
658 Sycamore Street	No	No	Unknown	Unknown	Unknown	
662 Sycamore Street	No	No	Unknown	Unknown	Unknown	
670 Sycamore Street	No	No	Unknown	Unknown	Unknown	
676 Sycamore Street	No	No	Unknown	Unknown	Unknown	
678 Sycamore Street	No	No	Unknown	Unknown	Unknown	
682 Sycamore Street	No	No	Unknown	Unknown	Unknown	
686 Sycamore Street	Yes	-	No	No	No	
690 Sycamore Street	No	No	Unknown	Unknown	Unknown	
700 Sycamore Street	No	No	Unknown	Unknown	Unknown	
2627 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2619 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2611 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2601 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
662 26th Street	No	No	Unknown	Unknown	Unknown	
672 26th Street	No	No	Unknown	Unknown	Unknown	
678 26th Street	No	No	Unknown	Unknown	Unknown	
686 26th Street	No	No	Unknown	Unknown	Unknown	
706 26th Street	No	Yes	No	No	Unknown	
710 26th Street	No	Yes	No	No	Unknown	
714 26th Street	No	No	Unknown	Unknown	Unknown	
724 26th Street	No	No	Unknown	Unknown	Unknown	
728 26th Street	No	No	Unknown	Unknown	Unknown	
732 26th Street	No	No	Unknown	Unknown	Unknown	
736 26th Street	Yes	Yes	No	No	Unknown	
740 26th Street	No	Yes	No	No	Unknown	
733 27th Street	No	No	Unknown	Unknown	Unknown	
729 27th Street	No	No	Unknown	Unknown	Unknown	
725 27th Street	No	No	Unknown	Unknown	Unknown	
723 27th Street	No	No	Unknown	Unknown	Unknown	
719 27th Street	No	No	Unknown	Unknown	Unknown	
715 27th Street	No	No	Unknown	Unknown	Unknown	
709 27th Street	Yes	-	No	No	No	
709B 27th Street	Yes	-	No	No	No	
705 27th Street	No	No	Unknown	Unknown	Unknown	
697 27th Street	No	No	Unknown	Unknown	Unknown	
691 27th Street	No	No	Unknown	Unknown	Unknown	
687 27th Street	No	No	Unknown	Unknown	Unknown	
683 27th Street	Yes	Yes	No	Yes	Unknown	
681 27th Street	No	No	Unknown	Unknown	Unknown	
661 27th Street	No	No	Unknown	Unknown	Unknown	
624 Sycamore Street	No	No	Unknown	Unknown	Unknown	

Table 1. Door-to-Door Survey Results, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Address	Resident Present?	Rec'd Response to Flyer?	Well at Address?	Basement at Address?	UST at Address?	Comments
628 Sycamore Street	No	No	Unknown	Unknown	Unknown	
2576 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2592 Martin Luther King Jr Way	No	Yes	No	No	Unknown	Vacant businesses; 2582-2592 MLK
2606 Martin Luther King Jr Way	Yes	-	Unknown	No	No	2600-2606 MLK
2610 Martin Luther King Jr Way	Yes	-	No	No	No	2608/2610 MLK
2618 Martin Luther King Jr Way	No	Yes	No	No	Unknown	
2624 Martin Luther King Jr Way	No	Yes	No	No	Unknown	
2718 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2750 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2756 Martin Luther King Jr Way	Yes	-	No	No	No	
2760 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2764 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2766 Martin Luther King Jr Way	No	Yes	No	No	Unknown	
2768 Martin Luther King Jr Way	No	Yes	No	No	Unknown	
2772 Martin Luther King Jr Way	No	Yes	No	No	Unknown	
2786 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
627 28th Street	No	No	Unknown	Unknown	Unknown	
663 28th Street	No	No	Unknown	Unknown	Unknown	
2727 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2721 Martin Luther King Jr Way	No	Yes	No	No	Unknown	
664 27th Street	No	No	Unknown	Unknown	Unknown	
668 27th Street	No	No	Unknown	Unknown	Unknown	
670 27th Street	No	No	Unknown	Unknown	Unknown	
672 27th Street	No	No	Unknown	Unknown	Unknown	
676 27th Street	No	Yes	No	Yes	Unknown	
680 27th Street	No	Yes	No	No	Unknown	
682 27th Street	Yes	-	No	No	No	682/684 27th
688 27th Street	No	No	Unknown	Unknown	Unknown	
690 27th Street	No	No	Unknown	Unknown	Unknown	
696 27th Street	Yes	-	No	Yes	No	
700 27th Street	No	Yes	No	Yes	Unknown	
708 27th Street	Yes	-	No	No	No	
714 27th Street	No	No	Unknown	Unknown	Unknown	
2700 West Street	No	Yes	No	No	Unknown	
2212 West Street	No	No	Unknown	Unknown	Unknown	
685 28th Street	No	No	Unknown	Unknown	Unknown	
683 28th Street	No	No	Unknown	Unknown	Unknown	
679 28th Street	No	No	Unknown	Unknown	Unknown	
673 28th Street	No	No	Unknown	Unknown	Unknown	
669 28th Street	No	No	Unknown	Unknown	Unknown	
2837 Martin Luther King Jr Way	Yes	-	No	No	No	
2833 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2831 Martin Luther King Jr Way	Yes	-	No	No	No	
2827 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2823 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2821 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
668 28th Street	No	No	Unknown	Unknown	Unknown	
674 28th Street	Yes	-	No	Yes	No	
682 28th Street	No	No	Unknown	Unknown	Unknown	
686 28th Street	No	No	Unknown	Unknown	Unknown	
675 29th Street	No	No	Unknown	Unknown	Unknown	
665 29th Street	No	No	Unknown	Unknown	Unknown	
2850 West Street	Yes	-	No	No	No	

Table 1. Door-to-Door Survey Results, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Address	Resident Present?	Rec'd Response to Flyer?	Well at Address?	Basement at Address?	UST at Address?	Comments
2903 Martin Luther King Jr Way	Yes	-	No	Yes	No	
670 29th Street	No	No	Unknown	Unknown	Unknown	
678 29th Street	No	Yes	No	No	Unknown	
682 29th Street	No	No	Unknown	Unknown	Unknown	
686 29th Street	No	No	Unknown	Unknown	Unknown	
696 29th Street	Yes	-	No	Yes	No	
700 29th Street	No	No	Unknown	Unknown	Unknown	
630 28th Street	No	No	Unknown	Unknown	Unknown	
638 28th Street	No	No	Unknown	Unknown	Unknown	
644 28th Street	No	No	Unknown	Unknown	Unknown	
2818 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	Vacant home
2822 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	
2836 Martin Luther King Jr Way	No	No	Unknown	Unknown	Unknown	

Table 2. Basement Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Map Number	Address	Basement Floor Material	Sump Pump?	Approximate Distance from Site (feet)	Direction of Basement from Site
1	676 27th Street	Concrete	Unknown	180	W
2	674 28th Street	Earth	Unknown	240	N
3	683 27th Street	Concrete	Yes	260	SW
4	696 27th Street	Unknown	No	370	W
5	700 27th Street	Earth	Unknown	450	W
6	2903 Martin Luther King Jr Way	Earth	Unknown	580	N
7	696 29th Street	Concrete/Earth	Yes	620	N

Notes:

Map number corresponds to Site Vicinity/Receptor Survey Map (Figure 1)

12/11/03

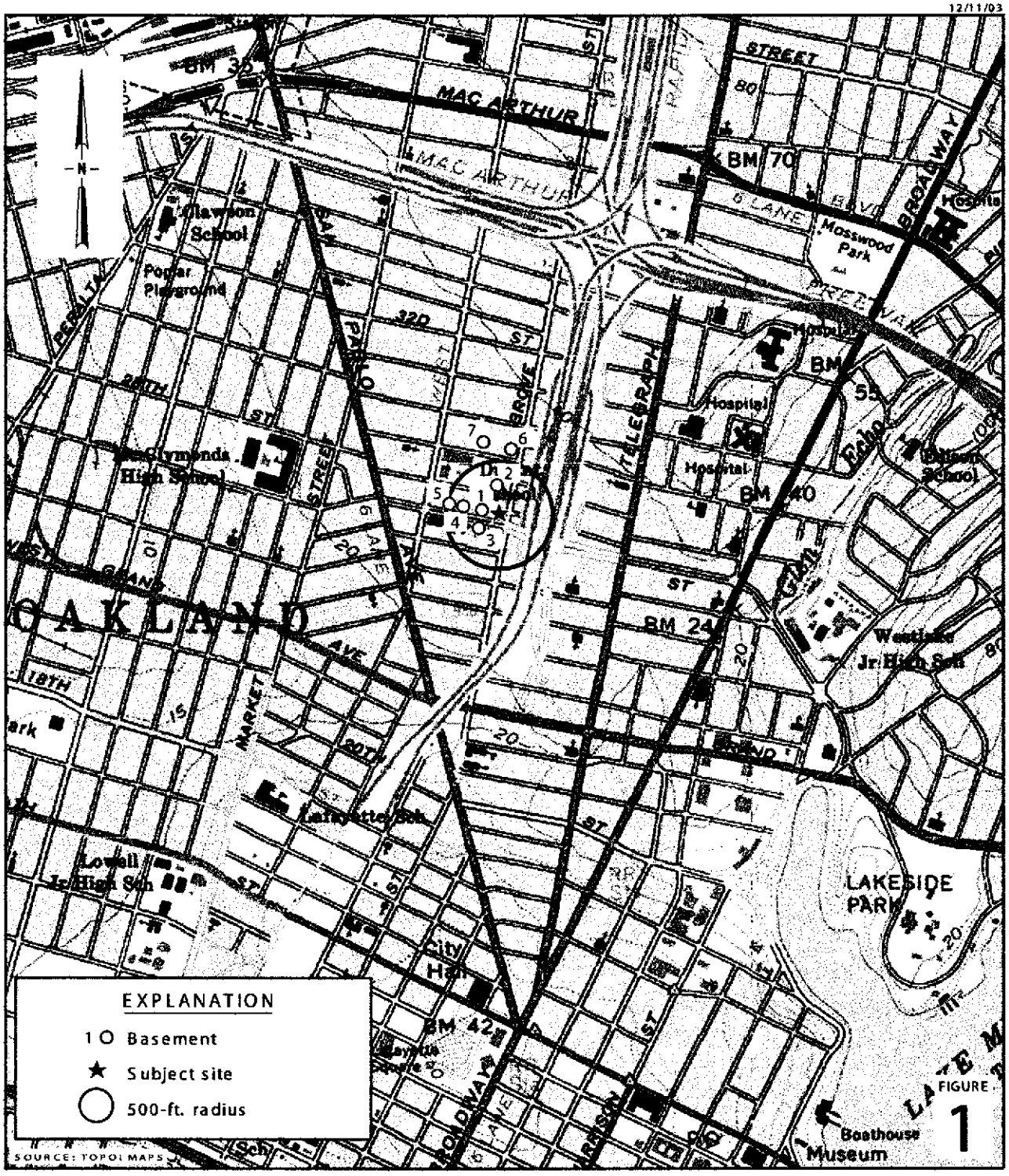


FIGURE 1

0 1/8 1/4 1/2 1

SCALE (MILES)

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

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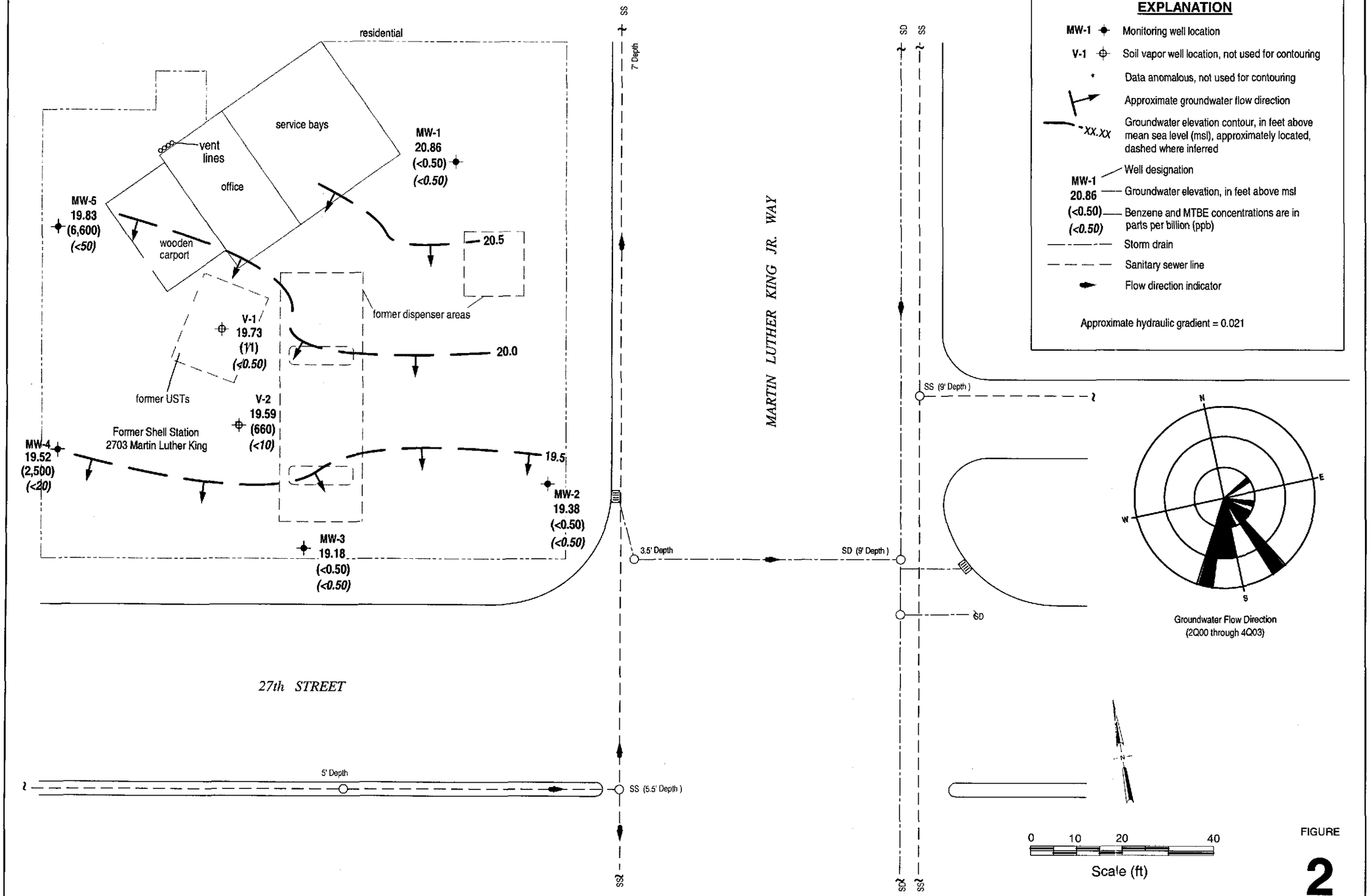
Site Vicinity/Receptor Survey Map

05-Dec-03

Groundwater Contour/ Chemical Concentration Map

October 20, 2003



EXPLANATION

- MW-1 — Monitoring well location
- V-1 — Soil vapor well location, not used for contouring
- * — Data anomalous, not used for contouring
- Approximate groundwater flow direction
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
- MW-1 — Well designation
- 20.86 — Groundwater elevation, in feet above msl
- (<0.50) — Benzene and MTBE concentrations are in parts per billion (ppb)
- (<0.50)
- Storm drain
- Sanitary sewer line
- Flow direction indicator

Approximate hydraulic gradient = 0.021

FIGURE

2

Former Shell Service Station

2703 Martin Luther King Jr. Way

Oakland, California

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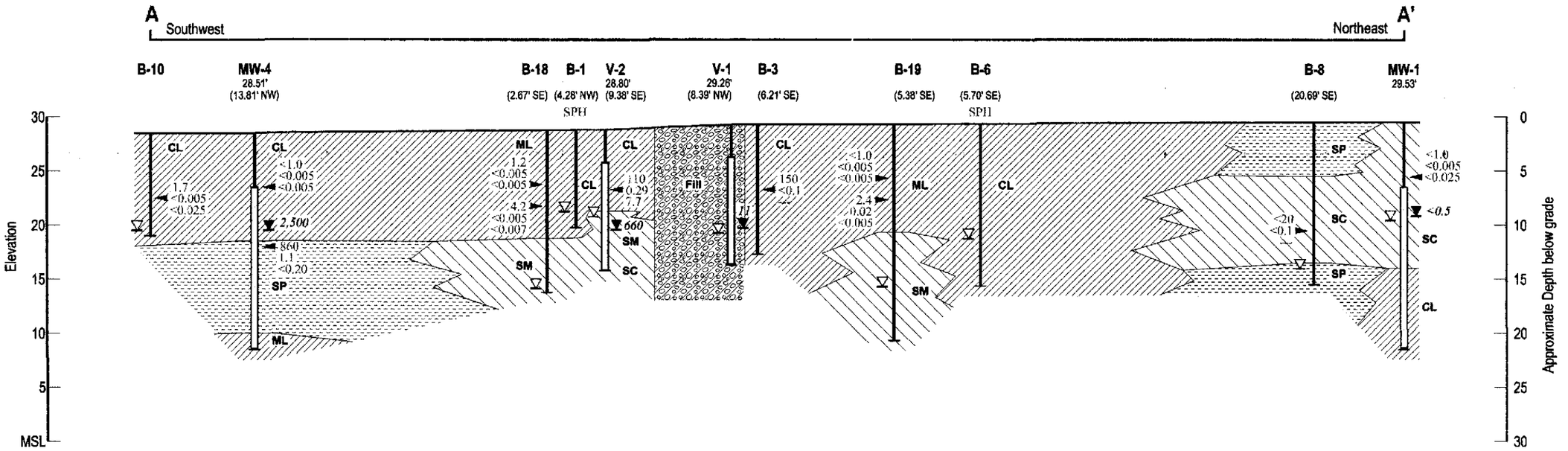

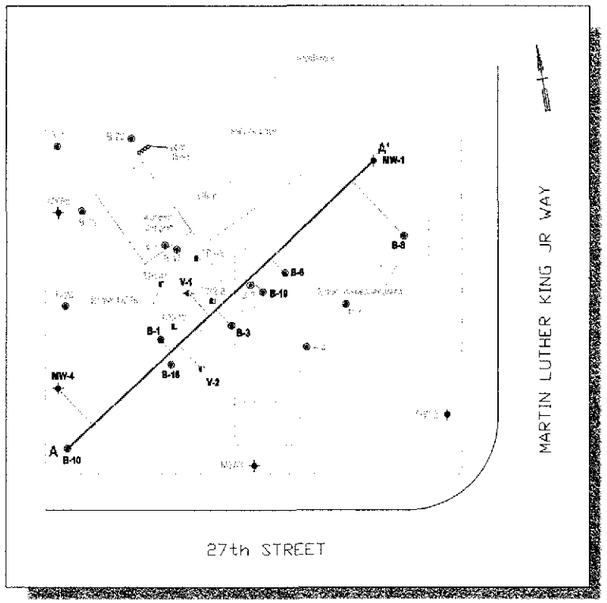

EXPLANATION

- = Low Estimated Permeability Soils — CL, ML
- = Moderate Estimated Permeability Soils — SC, SM
- = High Estimated Permeability Soils — SP
- = Fill (Tank Pit)

- CL = Clay
- ML = Clayey Silt
- SC = Clayey Sand
- SM = Silty Sand
- SP = Poorly Graded Sand

- Groundwater Elevation on 10/20/03
- Initial Groundwater level

- Well ID / ELEV / (projection) — Well Designation / GW Elevation / Projected distance from A-A'
- Groundwater Monitoring Well
- Well Screen Interval
- Bottom of boring
- TPHg / Benzene / MTBE — Hydrocarbon concentrations in soil, in mg/kg (ppm)
- SPH — Seperate Phase Hydrocarbons detected during installation
- *Benzene* — Benzene concentrations in groundwater in micrograms per liter (ppb) Sample taken on 10/20/03

Scale (ft): 10 / 0 / 10

FIGURE **3**

Geologic Cross Section A - A'

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

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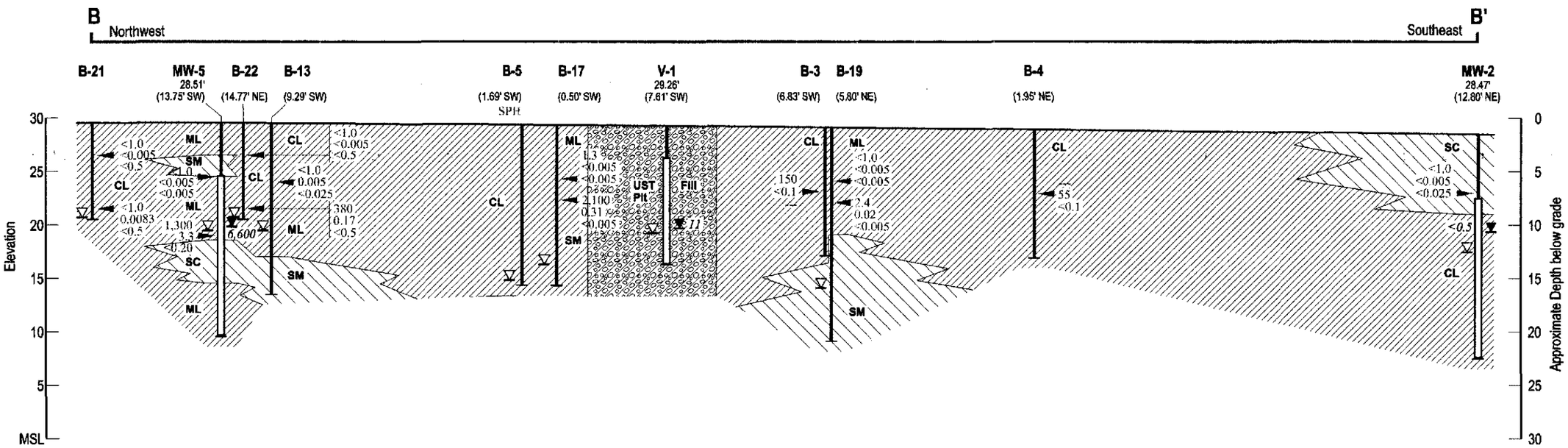
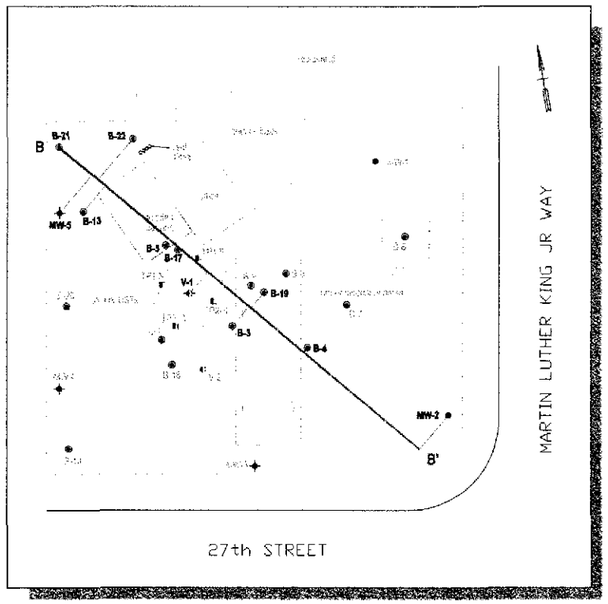
G:\OAKLAND 2703 NU\FIGURES\X-SECTION-A.DWG

12/12/03





EXPLANATION

- = Low Estimated Permeability Soils (CL, ML)
- = Moderate Estimated Permeability Soils (SC, SM)
- = Fill (Tank Pit)
- CL = Clay
- SC = Clayey Sand
- SM = Silty Sand
- ML = Clayey Silt
- Depth of Groundwater on 10/20/03
- Initial Groundwater level

- Well ID / ELEV (projection) — Well Designation, GW Elevation, Projected distance from A-A'
- Groundwater Monitoring Well
- Well Screen Interval
- Bottom of boring
- TPHg / Benzene / MTBE — Hydrocarbon concentrations in soil, in mg/kg (ppm)
- SPH — Seperate Phase Hydrocarbons detected during installation
- *Benzene* — Benzene concentrations in groundwater in micrograms per liter (ppb), Sample taken on 10/20/03

10
Scale (ft)
0 10

FIGURE
4

Geologic Cross Section B - B'

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

CAMBRIA

O:\OAKLAND 2703 MLK\FIGURES\X-SECTION-B.DWG

APPENDIX A

Blaine Tech Services, Inc.
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

November 19, 2003

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

Fourth Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, CA

Monitoring performed on October 20, 2003

Groundwater Monitoring Report **031020-MD-2**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Ana Friel
Cambria Environmental Technology, Inc.
P.O. Box 259
Sonoma, CA 95476-0259

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (B-11)	08/02/1996	NA	NA	NA	NA	NA	NA	NA	23.53	NA	NA	NA
MW-1 (B-11)	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.76	14.77	NA
MW-1 (B-11) (D)	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	NA	NA	NA
MW-1 (B-11)	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	9.88	13.65	NA
MW-1 (B-11)	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	6.82	16.71	NA
MW-1 (B-11)	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.89	15.64	NA
MW-1 (B-11)	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.71	14.82	NA
MW-1 (B-11)	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	9.26	14.27	NA
MW-1 (B-11)	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.94	15.59	NA
MW-1 (B-11)	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.21	16.32	NA
MW-1 (B-11)	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.78	15.75	NA
MW-1 (B-11)	10/01/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.39	15.14	NA
MW-1 (B-11)	01/18/1999	<50.0	<0.500	0.785	<0.500	<0.500	2.36	NA	23.53	8.28	15.25	NA
MW-1 (B-11)	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.41	15.12	NA
MW-1 (B-11)	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	8.17	15.36	NA
MW-1 (B-11)	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	23.53	9.37	14.16	NA
MW-1 (B-11)	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	7.52	16.01	NA
MW-1 (B-11)	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	7.66	15.87	NA
MW-1 (B-11)	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	7.81	15.72	NA
MW-1 (B-11)	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	8.33	15.20	NA
MW-1 (B-11)	01/04/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	8.33	15.20	NA
MW-1 (B-11)	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.53	7.83	15.70	NA
MW-1 (B-11)	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.53	8.60	14.93	NA
MW-1	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.53	9.01	14.52	0.2
MW-1	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.53	7.68	15.85	2.1
MW-1	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.53	7.38	16.15	1.1

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MW-1	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.53	7.75	15.78	2.2
MW-1	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	29.53	8.10	21.43	1.6
MW-1	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	29.53	7.82	21.71	0.6
MW-1	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	29.53	7.76	21.77	1.7
MW-1	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	29.53	7.87	21.66	1.5
MW-1	**10/20/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**29.53**	**8.67**	**20.86**	**0.8**
MW-2 (B-12)*	07/17/1996	<50	<0.50	0.69	<0.50	<0.50	<2.5	NA	22.47	NA	NA	NA
MW-2 (B-12)*	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	8.35	14.12	NA
MW-2 (B-12)*	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	9.32	13.15	NA
MW-2 (B-12) (D)*	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	NA	NA	NA
MW-2 (B-12)*	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	6.80	15.67	NA
MW-2 (B-12) (D)*	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	NA	NA	NA
MW-2 (B-12)*	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	7.81	14.66	NA
MW-2 (B-12)*	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	8.27	14.20	NA
MW-2 (B-12)*	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	9.12	13.35	NA
MW-2 (B-12)*	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	6.3	NA	22.47	7.41	15.06	NA
MW-2 (B-12)*	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	6.59	15.88	NA
MW-2 (B-12)*	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	7.49	14.98	NA
MW-2 (B-12)*	10/01/1998	<50	<0.50	<0.50	<0.50	0.59	<2.5	NA	22.47	8.58	13.89	NA
MW-2 (B-12)*	01/18/1999	<50.0	<0.500	0.971	<0.500	<0.500	2.47	NA	22.47	8.68	13.79	NA
MW-2 (B-12)*	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	8.62	13.85	NA
MW-2 (B-12)*	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	7.43	15.04	NA
MW-2 (B-12)*	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.47	9.00	13.47	NA
MW-2 (B-12)*	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	8.15	14.32	NA
MW-2 (B-12)*	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	7.04	15.43	NA

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MW-2 (B-12)*	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	7.13	15.34	NA
MW-2 (B-12)*	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	8.78	13.69	NA
MW-2 (B-12)*	01/04/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	8.33	14.14	NA
MW-2 (B-12)*	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.47	7.24	15.23	NA
MW-2 (B-12)*	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.47	8.55	13.92	NA
MW-2	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.47	9.42	13.05	NA
MW-2	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.47	7.23	15.24	NA
MW-2	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.47	6.90	15.57	NA
MW-2	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.47	7.97	14.50	NA
MW-2	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	28.47	8.62	19.85	NA
MW-2	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	28.47	7.08	21.39	NA
MW-2	04/17/2003	<50	<0.50	<0.50	0.98	2.5	NA	<5.0	28.47	6.94	21.53	NA
MW-2	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	28.47	8.10	20.37	NA
MW-2	**10/20/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**28.47**	**9.09**	**19.38**	**NA**
MW-3	04/25/2001	NA	NA	NA	NA	NA	NA	NA	22.30	7.16	15.14	NA
MW-3	05/03/2001	<100	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.30	7.28	15.02	NA
MW-3	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.30	8.45	13.85	NA
MW-3	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.30	9.44	12.86	NA
MW-3	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.30	5.88	16.42	NA
MW-3	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.30	6.68	15.62	NA
MW-3	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	22.30	7.63	14.67	NA
MW-3	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	28.30	8.56	19.74	NA
MW-3	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	28.30	6.95	21.35	NA
MW-3	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	28.30	6.77	21.53	NA
MW-3	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	28.30	7.92	20.38	NA

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MW-3	**10/20/2003**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**28.30**	**9.12**	**19.18**	**NA**
MW-4	04/25/2001	NA	NA	NA	NA	NA	NA	NA	22.51	7.05	15.46	NA
MW-4	05/03/2001	8,000	3,500	24	37	350	NA	<200	22.51	6.66	15.85	NA
MW-4	07/09/2001	16,000	4,100	32	890	790	NA	<200	22.51	8.28	14.23	NA
MW-4	10/18/2001	12,000	3,300	<20	430	220	NA	<200	22.51	9.40	13.11	NA
MW-4	01/24/2002	5,500	1,200	<5.0	280	240	NA	<50	22.51	5.73	16.78	NA
MW-4	04/04/2002	2,000	350	1.4	13	7.8	NA	<10	22.51	5.62	16.89	NA
MW-4	07/18/2002	3,400	440	1.3	200	98	NA	<5.0	22.51	6.94	15.57	NA
MW-4	10/21/2002	16,000	3,100	11	1,200	970	NA	<5.0	28.51	8.04	20.47	NA
MW-4	01/21/2003	3,600	720	3.9	110	58	NA	<25	28.51	6.10	22.41	NA
MW-4	04/17/2003	3,700	810	<5.0	140	17	NA	<50	28.51	5.97	22.54	NA
MW-4	07/22/2003	3,700	450	<2.5	110	7.9	NA	<2.5	28.51	6.37	22.14	NA
MW-4	**10/20/2003**	**11,000 c**	**2,500**	**<20**	**550**	**95**	**NA**	**<20**	**28.51**	**8.99**	**19.52**	**NA**
MW-5	04/25/2001	NA	NA	NA	NA	NA	NA	NA	23.54	7.36	16.18	NA
MW-5	05/03/2001	160,000	12,000	20,000	3,600	23,000	NA	<500	23.54	7.77	15.77	NA
MW-5	07/09/2001	130,000	11,000	19,000	4,500	22,000	NA	<500	23.54	9.32	14.22	NA
MW-5	10/18/2001	120,000	12,000	23,000	4,200	21,000	NA	<500	23.54	9.39	14.15	0.5
MW-5	01/24/2002	34,000	3,300	3,300	960	6,000	NA	<100	23.54	7.05	16.49	4.0
MW-5	04/04/2002	32,000	2,100	2,800	730	6,400	NA	<200	23.54	6.89	16.65	1.0
MW-5	07/18/2002	75,000	7,500	4,700	2,700	15,000	NA	<500	23.54	8.48	15.06	1.2
MW-5	10/21/2002	140,000	13,000	18,000	4,000	26,000	NA	<500	29.54	9.21	20.33	1.1
MW-5	01/21/2003	47,000	6,400	3,500	370	8,300	NA	<500	29.54	7.23	22.31	0.8
MW-5	04/17/2003	93,000	9,700	16,000	3,200	20,000	NA	<500	29.54	6.61	22.93	0.8
MW-5	07/22/2003	110,000	9,500	15,000	560	23,000	NA	<50	29.54	8.68	20.86	1.2

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MW-5	**10/20/2003**	**88,000**	**6,600**	**12,000**	**1,900**	**16,000**	**NA**	**<50**	**29.54**	**9.71**	**19.83**	**0.1**
B-10 *	07/17/1996	20000	400	<100	<100	870	<500	NA	NA	NA	NA	NA
B-13*	07/17/1996	290000	34000	21000	9900	47000	<2500	NA	NA	NA	NA	NA
V-1	08/02/1996	NA	NA	NA	NA	NA	NA	NA	23.26	NA	NA	NA
V-1	08/05/1996	NA	NA	NA	NA	NA	NA	NA	23.26	8.58	14.68	NA
V-1	10/17/1996	NA	NA	NA	NA	NA	NA	NA	23.26	10.02	13.24	NA
V-1	01/16/1997	9,500	1,200	250	280	880	<50	NA	23.26	5.55	17.71	NA
V-1	04/07/1997	2,200	42	<5.0	130	15	<25	NA	23.26	7.40	15.86	NA
V-1	07/02/1997	2,600	340	5.8	49	12	74	<4.0	23.26	8.94	14.32	NA
V-1	10/24/1997	57,000	5,200	2,300	3,600	16,000	1,900	<200	23.26	9.43	13.83	NA
V-1	01/09/1998	23,000	2,400	1,700	1,300	2,300	310	NA	23.26	6.81	16.45	NA
V-1 (D)	01/09/1998	24,000	2,500	1,800	1,400	2,400	450	NA	23.26	NA	NA	NA
V-1	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.26	4.58	18.68	NA
V-1 (D)	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.26	NA	NA	NA
V-1	07/14/1998	160	1.9	<0.50	4.2	<0.50	6.1	NA	23.26	7.51	15.75	NA
V-1	10/01/1998	440	18	<0.50	11	0.80	7.9	NA	23.26	8.49	14.77	NA
V-1	01/18/1999	697	55.7	0.839	28.2	<0.500	9.35	NA	23.26	8.59	14.67	NA
V-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.26	8.69	14.57	NA
V-1	08/23/1999	457	33.4	3.59	16.3	<0.500	13.9	NA	23.26	8.99	14.27	NA
V-1	10/06/1999	714	53.7	0.740	8.69	<0.500	9.83	NA	23.26	9.55	13.71	NA
V-1	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.26	7.19	16.07	NA
V-1	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.26	7.67	15.59	NA
V-1	07/19/2000	255	21.7	<0.500	10.2	<0.500	7.33	<1.00a	23.26	7.53	15.73	NA

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V-1	10/24/2000	200	4.05	0.566	<0.500	<0.500	7.82	NA	23.26	7.38	15.88	NA
V-1	01/04/2001	128	1.77	<0.500	<0.500	<0.500	6.40	<10.0b	23.26	8.41	14.85	NA
V-1	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.26	7.20	16.06	NA
V-1	07/09/2001	110	4.4	<0.50	0.88	1.7	NA	<5.0	23.26	9.22	14.04	NA
V-1	10/18/2001	1,500	180	12	43	46	NA	<5.0	23.26	10.08	13.18	0.8
V-1	01/24/2002	210	7.1	15	4.6	32	NA	<5.0	23.26	6.44	16.82	3.5
V-1	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	23.26	6.18	17.08	1.0
V-1	07/18/2002	100	1.6	1.2	1.2	6.1	NA	<5.0	23.26	8.08	15.18	1.7
V-1	10/21/2002	210	1.4	<0.50	1.0	1.3	NA	<5.0	29.26	8.94	20.32	1.2
V-1	01/21/2003	61	5.2	<0.50	<0.50	<0.50	NA	<5.0	29.26	6.62	22.64	0.6
V-1	04/17/2003	<50	<0.50	<0.50	<0.50	1.2	NA	<5.0	29.26	6.00	23.26	1.3
V-1	07/22/2003	Well inaccessible		NA	NA	NA	NA	NA	29.26	NA	NA	NA
V-1	**10/20/2003**	**540**	**11**	**1.6**	**6.0**	**8.9**	**NA**	**<0.50**	**29.26**	**9.53**	**19.73**	**0.1**
V-2	08/02/1996	NA	NA	NA	NA	NA	NA	NA	22.80	NA	NA	NA
V-2	08/05/1996	NA	NA	NA	NA	NA	NA	NA	22.80	7.94	14.86	NA
V-2	10/17/1996	NA	NA	NA	NA	NA	NA	NA	22.80	9.30	13.50	NA
V-2	01/08/1997	69,000	4,800	2,800	2,700	13,000	750	NA	22.80	5.82	16.98	NA
V-2	04/07/1997	90,000	4,400	1,900	3,300	14,000	<500	NA	22.80	7.10	15.70	NA
V-2 (D)	04/07/1997	77,000	4,400	2,000	3,200	14,000	<250	NA	22.80	NA	NA	NA
V-2	07/02/1997	82,000	5,500	2,700	3,500	16,000	530	<100	22.80	8.35	14.45	NA
V-2 (D)	07/02/1997	85,000	5,600	2,800	3,600	17,000	520	<100	22.80	NA	NA	NA
V-2	10/24/1997	7,300	1,100	97	230	180	91	<12	22.80	10.03	12.77	NA
V-2 (D)	10/24/1997	12,000	1,700	340	650	630	120	<20	22.80	NA	NA	NA
V-2	01/09/1998	40,000	4,100	1,500	2,500	9,000	280	NA	22.80	6.94	15.86	NA
V-2	04/02/1998	62,000	6,800	2,400	3,400	14,000	<250	NA	22.80	5.35	17.45	NA

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V-2	07/14/1998	43,000	4,700	1,100	2,500	6,600	<250	NA	22.80	6.48	16.32	NA
V-2 (D)	07/14/1998	48,000	5,100	1,300	2,600	8,100	<250	NA	22.80	NA	NA	NA
V-2	10/01/1998	53,000	5,200	1,800	3,200	10,000	83	NA	22.80	8.41	14.39	NA
V-2 (D)	10/01/1998	55,000	5,300	1,900	3,300	11,000	65	NA	22.80	NA	NA	NA
V-2	01/18/1999	47,100	5,800	1,960	3,450	10,200	<100	NA	22.80	8.29	14.51	NA
V-2	04/29/1999	65,000	6,100	2,800	3,200	12,000	540	NA	22.80	8.19	14.61	NA
V-2	08/23/1999	59,600	6,240	2,190	3,900	14,700	390	NA	22.80	8.44	14.36	NA
V-2	10/06/1999	63,800	4,820	1,860	2,840	11,100	<1000	NA	22.80	8.96	13.84	NA
V-2	01/27/2000	59,600	10,200	2,840	3,450	12,100	<500	NA	22.80	7.57	15.23	NA
V-2	04/18/2000	45,000	6,050	2,700	3,340	12,200	<250	NA	22.80	8.14	14.66	NA
V-2	07/19/2000	31,800	4,440	1,270	2,390	6,820	<500	NA	22.80	8.21	14.59	NA
V-2	10/24/2000	40,100	4,810	1,730	2,960	8,650	734	<10.0	22.80	8.53	14.27	NA
V-2	01/04/2001	37,500	4,510	1,390	2,710	6,880	375	NA	22.80	8.03	14.77	NA
V-2	05/03/2001	51,000	4,000	1,900	2,800	8,200	NA	<200	22.80	6.63	16.17	NA
V-2	07/09/2001	9,600	710	190	180	1,400	NA	<25	22.80	8.75	14.05	NA
V-2	10/18/2001	20,000	2,000	540	560	6,000	NA	<50	22.80	9.60	13.20	0.4
V-2	01/24/2002	36,000	2,900	870	1,700	5,900	NA	<100	22.80	5.93	16.87	4.0
V-2	04/04/2002	49,000	3,900	1,500	2,900	9,300	NA	<200	22.80	5.78	17.02	0.9
V-2	07/18/2002	50,000	3,600	1,300	2,800	9,300	NA	<200	22.80	7.58	15.22	1.3
V-2	10/21/2002	86,000	6,000	1,900	4,200	20,000	NA	<250	28.80	8.40	20.40	1.3
V-2	01/21/2003	13,000	630	200	300	2,400	NA	<25	28.80	6.52	22.28	1.2
V-2	04/17/2003	26,000	2,000	570	750	6,000	NA	<100	28.80	5.93	22.87	1.1
V-2	07/22/2003	6,800	130	34	150	440	NA	<2.5	28.80	7.96	20.84	1.4
V-2	**10/20/2003**	**14,000**	**660**	**160**	**260**	**2,400**	**NA**	**<10**	**28.80**	**9.21**	**19.59**	**0.7**

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA

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

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 3, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 3, 2001, analyzed by EPA Method 8020.
MTBE = Methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen reading
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable

Notes:
* = Water sample from Boring
a = This sample analyzed outside of EPA recommended holding time.
b = Due to error of Sequoia Analytical laboratories, well V-1 confirmed for MTBE by EPA Method 8260 instead of V-2.
c = Hydrocarbon does not match pattern of laboratory's standard.
Site surveyed June 14, 2001, by Virgil Chavez Land Surveying of Vallejo, California.
Site surveyed August 13, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

SEVERN TRENT STL

Submission#: 2003-10-0757

Blaine Tech Services, Inc.

November 04, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 031020-MD2
Project: 97093397
Site: 2703 Martin Luther King Jr. Way, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 10/21/2003 15:26
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 12/05/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-10-0757

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: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/20/2003 10:15	Water	1
MW-2	10/20/2003 10:25	Water	2
MW-3	10/20/2003 10:35	Water	3
MW-4	10/20/2003 10:50	Water	4
MW-5	10/20/2003 11:45	Water	5
V-1	10/20/2003 11:25	Water	6
V-2	10/20/2003 11:10	Water	7

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

Blaine Tech Services, Inc.

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

Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

[redacted]

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/29/2003 23:21	
Benzene	ND	0.50	ug/L	1.00	10/29/2003 23:21	
Toluene	ND	0.50	ug/L	1.00	10/29/2003 23:21	
Ethylbenzene	ND	0.50	ug/L	1.00	10/29/2003 23:21	
Total xylenes	ND	1.0	ug/L	1.00	10/29/2003 23:21	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/29/2003 23:21	
Surrogate(s)						
1,2-Dichloroethane-d4	94.2	76-130	%	1.00	10/29/2003 23:21	
Toluene-d8	100.1	78-115	%	1.00	10/29/2003 23:21	

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

Blaine Tech Services, Inc.

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Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

[redacted]

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/29/2003 23:43	
Benzene	ND	0.50	ug/L	1.00	10/29/2003 23:43	
Toluene	ND	0.50	ug/L	1.00	10/29/2003 23:43	
Ethylbenzene	ND	0.50	ug/L	1.00	10/29/2003 23:43	
Total xylenes	ND	1.0	ug/L	1.00	10/29/2003 23:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/29/2003 23:43	
Surrogate(s)						
1,2-Dichloroethane-d4	98.8	76-130	%	1.00	10/29/2003 23:43	
Toluene-d8	100.0	78-115	%	1.00	10/29/2003 23:43	

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: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

Prep(s): 5030B Test(s): 8260B

Sample ID: MW-5

Sampled: 10/20/2003 10:05 Extracted: 10/30/2003 00:00

Matrix: Water QC Batch#: 2003/10/30-52.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/30/2003 00:06	
Benzene	ND	0.50	ug/L	1.00	10/30/2003 00:06	
Toluene	ND	0.50	ug/L	1.00	10/30/2003 00:06	
Ethylbenzene	ND	0.50	ug/L	1.00	10/30/2003 00:06	
Total xylenes	ND	1.0	ug/L	1.00	10/30/2003 00:06	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/30/2003 00:06	
Surrogate(s)						
1,2-Dichloroethane-d4	98.3	76-130	%	1.00	10/30/2003 00:06	
Toluene-d8	96.5	78-115	%	1.00	10/30/2003 00:06	

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

Blaine Tech Services, Inc.

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

Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

[redacted]

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	2000	ug/L	40.00	10/30/2003 01:12	g
Benzene	2500	20	ug/L	40.00	10/30/2003 01:12	
Toluene	ND	20	ug/L	40.00	10/30/2003 01:12	
Ethylbenzene	550	20	ug/L	40.00	10/30/2003 01:12	
Total xylenes	95	40	ug/L	40.00	10/30/2003 01:12	
Methyl tert-butyl ether (MTBE)	ND	20	ug/L	40.00	10/30/2003 01:12	
Surrogate(s)						
1,2-Dichloroethane-d4	103.7	76-130	%	40.00	10/30/2003 01:12	
Toluene-d8	98.7	78-115	%	40.00	10/30/2003 01:12	

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

Blaine Tech Services, Inc.

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Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

[redacted]

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	88000	5000	ug/L	100.00	10/30/2003 01:34	
Benzene	6600	50	ug/L	100.00	10/30/2003 01:34	
Toluene	12000	50	ug/L	100.00	10/30/2003 01:34	
Ethylbenzene	1900	50	ug/L	100.00	10/30/2003 01:34	
Total xylenes	16000	100	ug/L	100.00	10/30/2003 01:34	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	100.00	10/30/2003 01:34	
Surrogate(s)						
1,2-Dichloroethane-d4	103.5	76-130	%	100.00	10/30/2003 01:34	
Toluene-d8	109.4	78-115	%	100.00	10/30/2003 01:34	

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

Blaine Tech Services, Inc.

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Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

[redacted]

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	540	50	ug/L	1.00	10/30/2003 03:48	
Benzene	11	0.50	ug/L	1.00	10/30/2003 03:48	
Toluene	1.6	0.50	ug/L	1.00	10/30/2003 03:48	
Ethylbenzene	6.0	0.50	ug/L	1.00	10/30/2003 03:48	
Total xylenes	8.9	1.0	ug/L	1.00	10/30/2003 03:48	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/30/2003 03:48	
Surrogate(s)						
1,2-Dichloroethane-d4	110.8	76-130	%	1.00	10/30/2003 03:48	
Toluene-d8	100.8	78-115	%	1.00	10/30/2003 03:48	

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

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Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

[redacted]

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	14000	1000	ug/L	20.00	10/30/2003 01:57	
Benzene	660	10	ug/L	20.00	10/30/2003 01:57	
Toluene	160	10	ug/L	20.00	10/30/2003 01:57	
Ethylbenzene	260	10	ug/L	20.00	10/30/2003 01:57	
Total xylenes	2400	20	ug/L	20.00	10/30/2003 01:57	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	10/30/2003 01:57	
Surrogate(s)						
1,2-Dichloroethane-d4	102.0	76-130	%	20.00	10/30/2003 01:57	
Toluene-d8	100.1	78-115	%	20.00	10/30/2003 01:57	

SEVERN TRENT **STL**

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: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland

Batch QC Report

Prep(s): [illegible] Test(s): 8260B
Method Blank Water QC Batch # [illegible]
MB: [illegible] Date Extracted: [illegible]

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/29/2003 22:59	
Benzene	ND	0.5	ug/L	10/29/2003 22:59	
Toluene	ND	0.5	ug/L	10/29/2003 22:59	
Ethylbenzene	ND	0.5	ug/L	10/29/2003 22:59	
Total xylenes	ND	1.0	ug/L	10/29/2003 22:59	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/29/2003 22:59	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	76-130	%	10/29/2003 22:59	
Toluene-d8	99.8	78-115	%	10/29/2003 22:59	

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

Blaine Tech Services, Inc.

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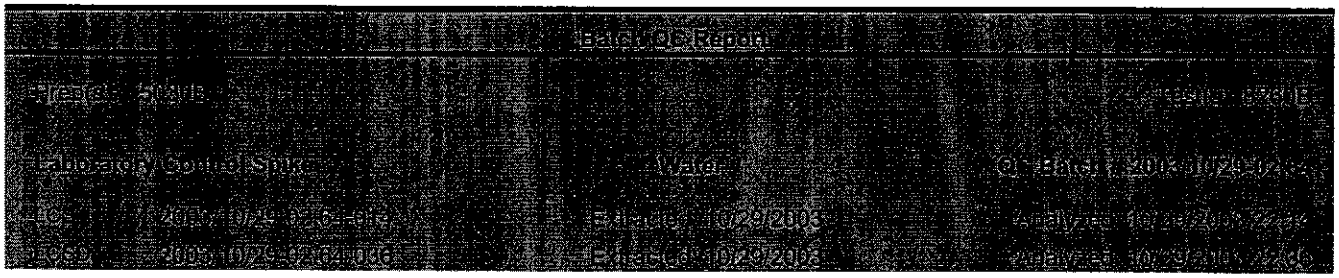
Project: 031020-MD2
97093397

Received: 10/21/2003 15:26

Site: 2703 Martin Luther King Jr. Way, Oakland



Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	26.2	25.0	25.0	104.8	100.0	4.7	69-129	20		
Toluene	26.9	26.6	25.0	107.6	106.4	1.1	70-130	20		
Methyl tert-butyl ether (MTBE)	23.1	21.6	25.0	92.4	86.4	6.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	521	500	500	104.2	100.0		76-130			
Toluene-d8	510	516	500	102.0	103.2		78-115			

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

Blaine Tech Services, Inc.

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Project: 031020-MD2
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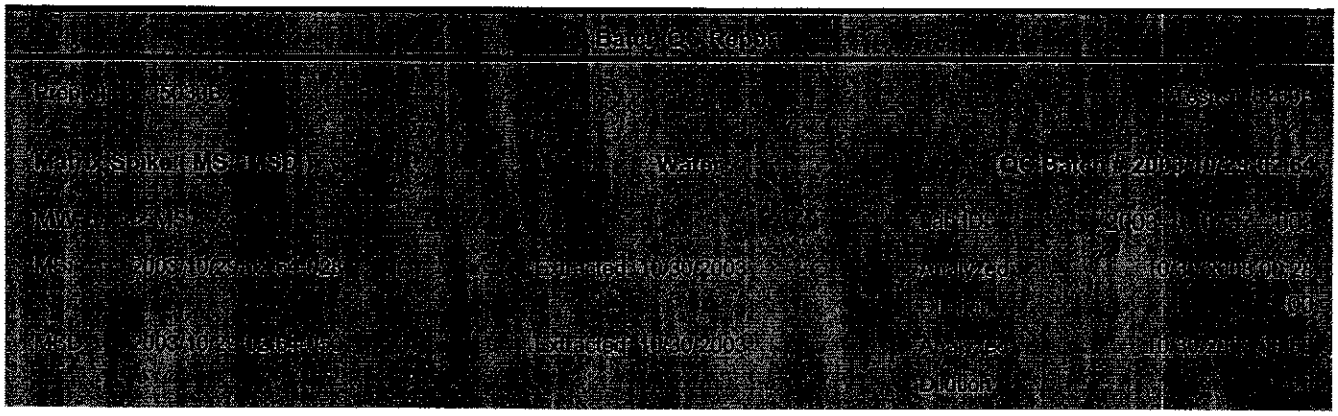
Site: 2703 Martin Luther King Jr. Way, Oakland



Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	27.9	26.6	ND	25.0	111.6	106.4	4.8	69-129	20		
Toluene	29.4	28.0	ND	25.0	117.6	112.0	4.9	70-130	20		
Methyl tert-butyl ether	27.5	24.8	ND	25.0	110.0	99.2	10.3	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	509	502		500	101.8	100.4		76-130			
Toluene-d8	468	499		500	93.7	99.8		78-115			