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Alameda County

AUG 2003

Environmental Health

Shell Oil Products US

August 25, 2003

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

Subject: Shell-branded Service Station
1784 150th Avenue
San Leandro, California

Dear Ms. chu:

Attached for your review and comment is a copy of the *Second Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

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

CAMBRIA

August 25, 2003

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

Re: **Second Quarter 2003 Monitoring Report**
Shell-branded Service Station
1784 150th Avenue
San Leandro, California
Incident #98996068
Cambria Project #245-0612-002

Dear Ms. chu:

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

SECOND QUARTER 2003 ACTIVITIES

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

Inaccessible Monitoring Wells MW-7 and MW-8: Two off-site monitoring wells, MW-7 and MW-8, have been paved over during recent road resurfacing operations by the City of San Leandro Engineering and Transportation. Prior to the resurfacing operations, Cambria marked the wells and brought the wells' existence to the attention of Mr. Victor Lemon of the City of San Leandro Engineering and Transportation department. However, the wells were paved over during the resurfacing operations. Top of casing survey data has been used to mark the locations of the wells in order for Blaine to uncover and restore the well boxes. Blaine is experiencing delays obtaining an encroachment permit from the City of San Leandro. As soon as an encroachment permit is granted, Blaine will restore the wells and include them in the quarterly sampling regime.

Cambria Environmental Technology, Inc.

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

Additional Oxygenate Analysis: As requested in a letter dated October 22, 2002 from Alameda County Health Care Services Agency (ACHCSA), groundwater samples were analyzed for the presence of methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), ethyl tert-butyl ether, tert-amyl methyl ether (TAME), di-isopropyl ether, 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (or ethylene dibromide) using EPA Method 8260 in the fourth quarter of 2002. During that event, no analytes were detected in any of the groundwater samples from off-site wells; however, MTBE and TBA were detected in on-site wells MW-1 and MW-2 and 1,2-DCA was detected in MW-1 and MW-3. As a result, only groundwater from on-site wells continues to be analyzed for MTBE, TAME, TBA and 1,2-DCA. Analytical results for the second quarter of 2003 showed MTBE concentrations of 100 parts per billion (ppb) and 14,000 ppb, and 0.54 ppb in wells MW-1, MW-2 and MW-3, respectively. TBA was detected above the laboratory detection limit in MW-2 only, at a concentration of 6,000 ppb. In addition, 1.1 ppb of 1,2-DCA was detected in MW-3. Analytical results are presented in Table 1.

Volatile Organic Compounds (VOC) Analysis: Groundwater from well MW-3 was analyzed for VOCs by EPA Method 8260B. No analytes were detected.

Mobile Groundwater Extraction (GWE): In July 2002, Onyx Industrial Services (Onyx) of Benicia, California began conducting semi-monthly GWE using monitoring well MW-2 for three events and continuing on a monthly basis thereafter. As of July 14, 2003, approximately 3.7 pounds of total petroleum hydrocarbons as gasoline and approximately 1.4 pounds of MTBE were removed from the subsurface (Table 2). The effect of GWE on the MTBE concentrations in well MW-2 is depicted graphically in Figure 3.

Soil and Groundwater Investigation: From June 23 through June 26, 2003, Cambria installed a total of seven off-site and one on-site soil borings (SB-10 through SB-16, as shown in Figure 2) as proposed in Cambria's March 10, 2003 *Soil and Water Investigation Work Plan and Well Screen Interval Evaluation,* and as approved in a May 5, 2003 letter from ACHCSA and May 15, 2003 telephone conversation between eva chu of ACHCSA and Melody Munz of Cambria. A total of 42 soil samples and 7 groundwater samples were collected during the investigation. No MTBE was detected in any soil sample. TPHg, and benzene, toluene, ethylbenzene and xylenes compounds were detected only in off-site soil sample SB-11-30' and on-site soil sample SB-15-35'. MTBE was detected only in the groundwater sample from on-site boring SB-15. Cambria will submit a report of the field activities and analytical results under separate cover.

ANTICIPATED THIRD QUARTER 2003 ACTIVITIES

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

Additional Oxygenate and Lead Scavenger Analysis: Groundwater from on-site wells MW-1, MW-2 and MW-3 will continue to be analyzed quarterly for MTBE, TAME, TBA and 1,2-DCA.

GWE: Onyx will continue conducting monthly GWE using monitoring well MW-2.

Soil and Groundwater Investigation Report: Cambria will submit a *Soil and Water Investigation Report* summarizing the June 23 through June 26, 2003 field activities and analytical results. The report will also include recommendations regarding further investigation at the site based on the analytical and geological data gathered during this and previous investigations.

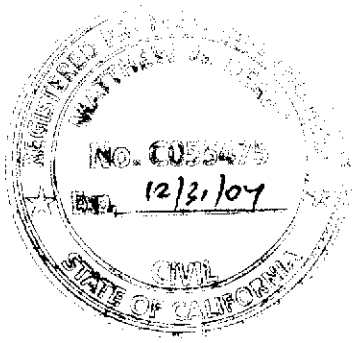
CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc

Melody Munz
Project Engineer

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



Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map
3 - GWE VacOps Effect on MTBE Concentration (MW-2)

Tables: 1 - Groundwater Analytical Data - Oxygenates
2 - Groundwater Extraction - Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

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

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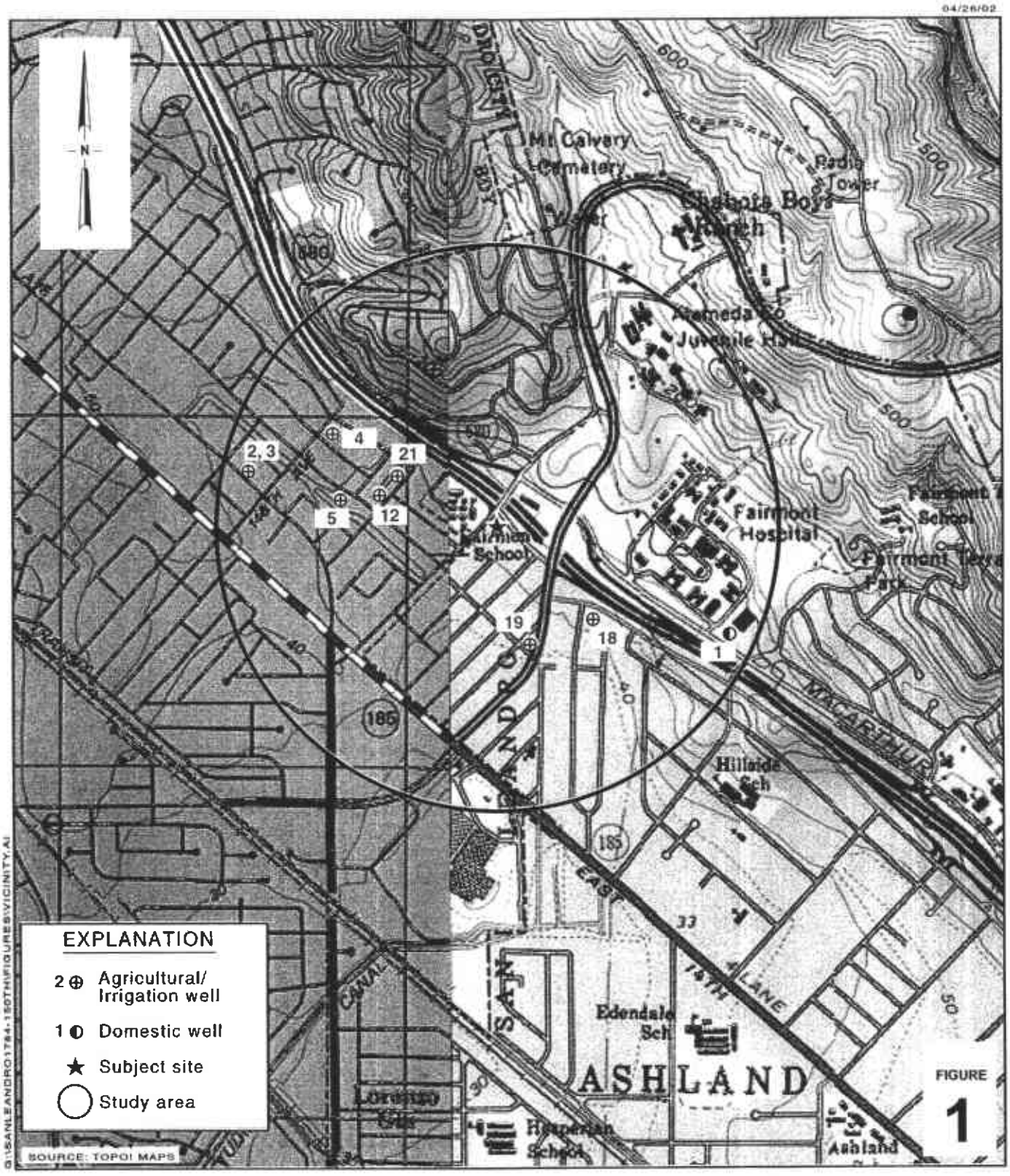


FIGURE 1

Shell-branded Service Station
1784 150th Avenue
San Leandro, California
Incident #98996068

CAMBRIA

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

08/06/03

Groundwater Elevation Contour Map

June 24, 2003

PORTOFINO DRIVE
PORTOFINO CIRCLE
150th AVENUE
FREEDOM AVENUE
I-580 OFF RAMP
I-580
residential
residential
residential
residential (townhouses)
storm drain inlet
MH
brick sound wall
private
dispensers
USTs
station building
W/O UST
BH-1 located 215' SE
BH-6 located 360' SSE

BH-4 ◆
BH-9 ◆
SB-16 ⊙
SB-10 ⊙
SB-14 ⊙
SB-13 ⊙
BH-5 ◆
SB-12 ⊙
MW-4
27.66*
<0.50
12
SVS-6 ▲
BH-7 ◆
MW-8
NA
220 - 3/5/03
<100 - 3/5/03
SVS-7 ▲
SB-9 ⊙
SVS-8 ▲
MW-7
NA
370 - 3/5/03
<100 - 3/5/03
SVS-9 ▲
SB-11 ⊙

BH-8 ◆
MW-5
27.55
<0.50
<0.50
SVS-14 △
BH-3 ◆
MW-2
27.49
9,500
14,000
SVS-4 △
SVS-11 △
SVS-5 ▲
SB-15 ⊙
BH-2 ◆
27.50
27.60
27.70
SVS-3 △
SVS-12 △
SVS-1 ▲
SVS-10 ▲
SVS-2 ▲
SVS-13 △
SVS-15 △
SVS-16 △
MW-6
27.79
<0.50
<0.50
MW-1
NA
5,300 - 6/25/03
100 - 6/25/03
MW-3
NA
0.71 - 6/25/03
0.54 - 6/25/03

EXPLANATION

MW-1	✦	Monitoring well location
BH-1	◆	Weiss soil boring location (6/94)
BH-7	◆	Weiss soil boring location (3/95)
SVS-1	▲	Cambria soil boring location (7/96)
SVS-11	△	Cambria soil boring location (11/98)
SB-9	⊙	Cambria soil boring location (10/03/02)
SB-10	⊙	Cambria soil boring location (06/03)
NA		Not available
*		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
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.

Groundwater Gradient Direction
(06/14/99 to 06/24/03)

0 25 50 100
SCALE 1:50 FEET

FIGURE
2

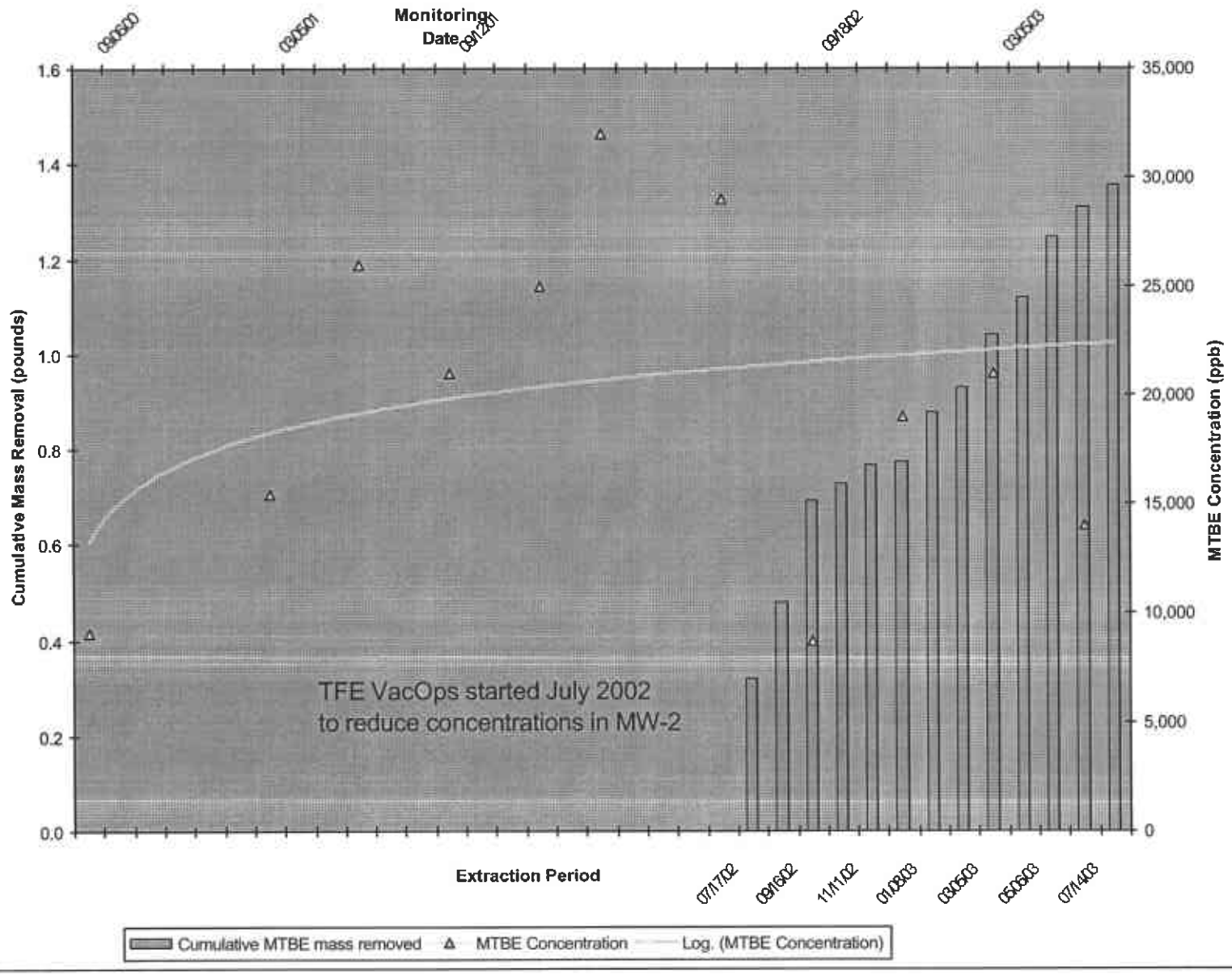
Shell-branded Service Station
1784 150th Avenue
San Leandro, California
Incident #98996068

CAMBRIA

G:\SANLEANDRO-1784-150TH\FIGURES\2QM03-MP.AI

TFE VacOps Effect on MTBE Concentration
1784 150th Street, San Leandro, MW-2

Date	DTW
9/6/00	18.65
12/14/00	19.00
3/5/01	16.66
6/11/01	18.93
9/12/01	19.85
12/27/01	17.85
2/27/02	17.15
6/18/02	18.49
9/18/02	19.95
12/27/02	16.71
3/5/03	17.72
6/25/03	18.30



G:\San Leandro 1784 150th\QM\2q03\1784 2q03graph.pdf

Figure 3

Table 1. **Groundwater Analytical Data - Oxygenates** - Shell-branded Service Station, Incident #98996068, 1784 150th Avenue, San Leandro, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		←			(Concentrations in ppb)			→
MW-1	12/27/02	230	<5.0	<5.0	<5.0	310	31	<5.0
	03/05/03	230	---	---	<10	290	<10	---
	06/25/03	**100**	**---**	**---**	**<200**	**<500**	**<50**	**---**
MW-2	12/27/02	19,000	<50	<50	55	10,000	<50	<50
	03/05/03	21,000	---	---	<50	10,000	<50	---
	06/24/03	**14,000**	**---**	**---**	**<400**	**6,000**	**<100**	**---**
MW-3	03/05/03	<5.0	---	---	<2.0	<50	13	---
	06/25/03	**0.54**	**---**	**---**	**<2.0**	**<5.0**	**1.1**	**---**
MW-5	12/27/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-6	12/27/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-7	12/27/02	<10	<10	<10	<10	<100	<10	<10
MW-8	12/27/02	<10	<10	<10	<10	<100	<10	<10

Table 1. **Groundwater Analytical Data - Oxygenates** - Shell-branded Service Station, Incident #98996068, 1784 150th Avenue, San Leandro, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		← (Concentrations in ppb) →						

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by by EPA Method 8260
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260
TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260
TBA = Tert-butyl alcohol, analyzed by EPA Method 8260
1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260
EDB = 1,2-dibromomethane or ethlyene dibromide, analyzed by EPA Method 8260
ppb = Parts per billion
--- = Not analyzed

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98996068, 1784 150th Avenue, San Leandro, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPPH			**Benzene**			**MTBE**		
07/03/02	MW-2	482	482	06/18/02	72,000	0.28958	0.28958	9,500	0.03821	0.03821	29,000	0.11664	0.11664
07/17/02	MW-2	834	1,316	06/18/02	72,000	0.50106	0.79064	9,500	0.06611	0.10432	29,000	0.20182	0.31845
07/31/02	MW-2	213	1,529	06/18/02	72,000	0.12797	0.91861	9,500	0.01688	0.12121	29,000	0.05154	0.37000
08/14/02	MW-2	664	2,193	06/18/02	72,000	0.39893	1.31754	9,500	0.05264	0.17384	29,000	0.16068	0.53068
09/16/02	MW-2	662	2,855	06/18/02	72,000	0.39773	1.71527	9,500	0.05248	0.22632	29,000	0.16019	0.69087
10/14/02	MW-2	501	3,356	09/18/02	48,000	0.20067	1.91593	7,600	0.03177	0.25809	8,700	0.03637	0.72724
11/11/02	MW-2	547	3,903	09/18/02	48,000	0.21909	2.13502	7,600	0.03469	0.29278	8,700	0.03971	0.76695
12/09/02	MW-2	106	4,009	09/18/02	48,000	0.04246	2.17748	7,600	0.00672	0.29950	8,700	0.00770	0.77465
01/08/03	MW-2	652	4,661	12/27/02	40,000	0.21762	2.39510	5,900	0.03210	0.33160	19,000	0.10337	0.87802
02/04/03	MW-2	326	4,987	12/27/02	40,000	0.10881	2.50391	5,900	0.01605	0.34765	19,000	0.05168	0.92970
03/05/03	MW-2	647	5,634	03/05/03	62,000	0.33473	2.83863	13,000	0.07018	0.41784	21,000	0.11337	1.04308
04/08/03	MW-2	434	6,068	03/05/03	62,000	0.22453	3.06316	13,000	0.04708	0.46491	21,000	0.07605	1.11913
05/06/03	MW-2	736	6,804	03/05/03	62,000	0.38077	3.44393	13,000	0.07984	0.54475	21,000	0.12897	1.24810
06/06/03	MW-2	348	7,152	03/05/03	62,000	0.18004	3.62397	13,000	0.03775	0.58250	21,000	0.06098	1.30908
07/14/03	MW-2	391	7,543	06/24/03	19,000	0.06199	3.68596	9,500	0.03100	0.61350	14,000	0.04568	1.35475
Total Gallons Extracted:		**7,543**			**Total Pounds Removed:**		**3.68596**			**0.61350**			**1.35475**
					Total Gallons Removed:		**0.60426**			**0.08404**			**0.21851**

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
ppb = Parts per billion
gal = Gallon
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene, and MTBE analyzed by EPA Method 8260
If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.
Groundwater extracted by vacuum trucks provided by Onyx. Water disposed of at a Martinez Refinery.

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

July 18, 2003

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

Second Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Monitoring performed on June 24 and 25, 2003

Groundwater Monitoring Report **030624-MM-3**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	03/08/1990	510	120	1.5	0.8	<0.5	5.4	NA	NA	49.13	25.29	23.84	NA	NA
MW-1	06/12/1990	390	100	86	1.3	0.7	6.2	NA	NA	49.13	25.85	23.28	NA	NA
MW-1	09/13/1990	100	130	56	0.75	2.4	2.8	NA	NA	49.13	27.49	21.64	NA	NA
MW-1	12/18/1990	480	<50	54	1.7	3.3	3.7	NA	NA	49.13	27.41	21.72	NA	NA
MW-1	03/07/1991	80	<50	266	<0.5	1.2	<1.5	NA	NA	49.13	25.79	23.34	NA	NA
MW-1	06/07/1991	510	<50	130	3.8	6.1	11	NA	NA	49.13	25.64	23.49	NA	NA
MW-1	09/17/1991	330	120a	67	<0.5	3.0	2.2	NA	NA	49.13	27.54	21.59	NA	NA
MW-1	12/09/1991	140a	80	<0.5	<0.5	1.7	4.7	NA	NA	49.13	27.81	21.32	NA	NA
MW-1	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	25.57	23.56	NA	NA
MW-1	02/24/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	22.83	26.30	NA	NA
MW-1	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	23.09	26.04	NA	NA
MW-1	03/01/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	49.13	23.26	25.87	NA	NA
MW-1	06/03/1992	1,500	NA	520	180	72	230	NA	NA	49.13	24.64	24.49	NA	NA
MW-1	09/01/1992	130	NA	16	1.4	1.8	3.4	NA	NA	49.13	26.74	22.39	NA	NA
MW-1	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.18	21.95	NA	NA
MW-1	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.99	21.14	NA	NA
MW-1	12/04/1992	150	NA	360	0.7	1.8	2.1	NA	NA	49.13	27.14	21.99	NA	NA
MW-1	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.09	29.04	NA	NA
MW-1	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	24.26	24.87	NA	NA
MW-1	03/03/1993	<50	NA	1.5	<0.5	<0.5	<0.5	NA	NA	49.13	20.50	28.63	NA	NA
MW-1	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	21.70	27.43	NA	NA
MW-1	06/17/1993	1,600	NA	340	120	120	440	NA	NA	49.13	22.42	26.71	NA	NA
MW-1	09/10/1993	2,600	NA	670	340	310	730	NA	NA	49.13	24.11	25.02	NA	NA
MW-1	12/13/1993	11,000	NA	470	320	380	2,300	NA	NA	49.13	23.73	25.40	NA	NA
MW-1	03/03/1994	16,000	NA	700	690	480	3,200	NA	NA	49.13	22.08	27.05	NA	NA
MW-1	06/06/1994	7,500	NA	420	280	200	1,000	NA	NA	49.13	23.10	26.03	NA	NA
MW-1	09/12/1994	1,200	NA	110	21	3.3	420	NA	NA	49.13	25.19	23.94	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	12/19/1994	4,600	NA	470	330	230	1,300	NA	NA	49.13	23.06	26.07	NA	NA
MW-1	02/28/1995	500	NA	59	32	6.8	68	NA	NA	49.13	20.90	28.23	NA	NA
MW-1	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.28	30.85	NA	NA
MW-1	06/26/1995	5,500	NA	740	420	300	1,800	NA	NA	49.13	20.40	28.73	NA	NA
MW-1	09/13/1995	84,000	NA	1,900	2,600	3,000	14,000	NA	NA	49.13	22.62	26.51	NA	NA
MW-1	12/19/1995	80,000	NA	660	350	170	18,000	NA	NA	49.13	22.10	27.03	NA	NA
MW-1	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.83	30.34	0.05	NA
MW-1	06/28/1996	270,000	NA	2,800	820	1,000	16,000	<0.5	NA	49.13	21.46	27.67	NA	NA
MW-1 (D)	06/28/1996	790,000	NA	2,200	780	1,000	13,000	15,000	NA	49.13	21.46	27.67	NA	NA
MW-1	09/26/1996	29,000	NA	1,100	260	270	1,900	<1,000	NA	49.13	23.57	25.57	0.01	NA
MW-1	09/26/1996	25,000	NA	1,200	320	240	1,900	<1,000	NA	49.13	NA	NA	NA	NA
MW-1	12/10/1996	13,000	NA	510	240	230	1,200	100	NA	49.13	21.43	27.70	NA	1.0
MW-1 (D)	12/10/1996	8,400	NA	420	130	140	680	81	NA	49.13	21.43	27.70	NA	1.0
MW-1	03/10/1997	4,200	NA	13	8.8	16	74	<12	NA	49.13	20.08	29.05	NA	2.0
MW-1 (D)	03/10/1997	5,100	NA	12	8.9	17	79	<25	NA	49.13	20.08	29.05	NA	2.0
MW-1	06/30/1997	5,700	NA	320	120	140	700	47	NA	49.13	21.68	27.45	NA	1.6
MW-1 (D)	06/30/1997	5,300	NA	300	95	120	580	45	NA	49.13	21.68	27.45	NA	1.6
MW-1	09/12/1997	6,300	NA	120	26	82	260	30	NA	49.13	21.78	27.35	NA	2.1
MW-1 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.78	28.35	NA	1.3
MW-1	02/02/1998	84	NA	5.1	<0.50	<0.50	2.1	2.5	NA	49.13	19.65	29.48	NA	2.0
MW-1	06/24/1998	13,000	NA	3,000	260	410	1,400	<250	NA	49.13	19.65	29.48	NA	2.5
MW-1 (D)	06/24/1998	12,000	NA	3,800	250	47	1,400	710	NA	49.13	19.65	29.48	NA	2.5
MW-1	08/26/1998	3,100	NA	1,200	27	170	50	88	NA	49.13	20.49	28.64	NA	2.1
MW-1	12/23/1998	45,000	NA	5,300	220	1,000	3,600	970	NA	49.13	21.22	27.91	NA	3.8
MW-1	03/01/1999	22,300	NA	2,540	436	753	3,370	<400	NA	49.13	19.27	29.86	NA	1.8
MW-1	06/14/1999	18,800	NA	6,820	210	436	958	1,360	NA	49.13	20.80	28.33	NA	2.2
MW-1	09/28/1999	21,500	NA	7,470	281	467	927	1,800	NA	49.13	22.55	26.58	NA	2.0

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MW-1	12/08/1999	22,300	NA	6,140	135	256	367	232	NA	49.13	23.12	26.01	NA	2.1
MW-1	03/14/2000	6,690	NA	1,880	63.5	134	307	460	NA	49.13	18.87	30.26	NA	2.3
MW-1	06/28/2000	8,080	NA	2,690	85.1	149	514	701	NA	49.13	21.12	28.01	NA	2.4
MW-1	09/06/2000	17,800	NA	7,390	212	329	1,270	<1,000	NA	49.13	21.90	27.23	NA	3.0
MW-1	12/14/2000	8,900	NA	4,870	79.2	106	370	1,840	673*	49.13	22.60	26.53	NA	2.0
MW-1	03/05/2001	7,520	NA	2,120	66.0	107	129	668	NA	49.13	20.06	29.07	NA	0.4
MW-1	06/11/2001	30,000	NA	7,400	390	600	2,300	NA	170	49.13	22.39	26.74	NA	1.6
MW-1	09/12/2001	23,000	NA	7,500	120	280	910	NA	320	49.13	23.37	25.76	NA	2.2
MW-1	12/27/2001	16,000	NA	2,400	190	330	1,500	NA	350	49.13	20.97	28.16	NA	1.3
MW-1	02/27/2002	26,000	NA	6,100	330	510	2,000	NA	210	49.10	20.47	28.63	NA	1.3
MW-1	06/18/2002	29,000	NA	8,100	280	510	1,800	NA	140	49.10	21.99	27.11	NA	2.2
MW-1	09/18/2002	34,000	NA	5,900	350	700	3,000	NA	<250	49.10	23.21	25.89	NA	0.8
MW-1	12/27/2002	7,500	NA	1,200	30	120	410	NA	230	49.10	20.10	29.00	NA	0.6
MW-1	03/05/2003	17,000	NA	1,600	88	400	1,400	NA	230	49.10	21.05	28.05	NA	1.7
MW-1	**06/24/2003**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**49.10**	**NA**	**NA**	**NA**	**NA**
MW-1	**06/25/2003**	**14,000**	**NA**	**5,300**	**250**	**440**	**2,100**	**NA**	**100**	**49.10**	**21.93**	**27.17**	**NA**	**0.9**
MW-2	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	22.22	23.61	NA	NA
MW-2	02/24/1992	17,000	2,700a	6,200	1,600	550	1,900	NA	NA	45.83	19.61	26.22	NA	NA
MW-2	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	19.92	25.91	NA	NA
MW-2	03/01/1992	86,000	1,000a	30,000	34,000	2,300	16,000	NA	NA	45.83	21.11	24.72	NA	NA
MW-2	06/03/1992	87,000	NA	28,000	18,000	2,000	10,000	NA	NA	45.83	21.58	24.25	NA	NA
MW-2	09/01/1992	110,000	NA	21,000	13,000	1,900	7,800	NA	NA	45.83	23.46	22.37	NA	NA
MW-2	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	23.99	21.84	NA	NA
MW-2	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	24.25	21.58	NA	NA
MW-2	12/04/1992	42,000	NA	15,000	2,400	960	2,900	NA	NA	45.83	23.89	21.94	NA	NA
MW-2	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.03	28.80	NA	NA

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MW-2	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.08	27.75	NA	NA
MW-2	03/03/1993	160,000	NA	36,000	3,800	32,000	21,000	NA	NA	45.83	17.28	28.55	NA	NA
MW-2 (D)	03/03/1993	150,000	NA	31,000	3,100	20,000	14,000	NA	NA	45.83	17.28	28.55	NA	NA
MW-2	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.41	27.42	NA	NA
MW-2	06/17/1993	65,000	NA	34,000	15,000	3,200	11,000	NA	NA	45.83	19.06	26.77	NA	NA
MW-2 (D)	06/17/1993	62,000	NA	28,000	14,000	2,700	10,000	NA	NA	45.83	19.06	26.77	NA	NA
MW-2	09/10/1993	72,000	NA	24,000	16,000	2,300	11,000	NA	NA	45.83	20.88	24.95	NA	NA
MW-2 (D)	09/10/1993	71,000	NA	23,000	15,000	2,300	10,000	NA	NA	45.83	20.88	24.95	NA	NA
MW-2	12/13/1993	19,000	NA	5,400	4,900	680	3,100	NA	NA	45.83	20.42	25.41	NA	NA
MW-2 (D)	12/13/1993	17,000	NA	6,200	5,500	720	3,500	NA	NA	45.83	20.42	25.41	NA	NA
MW-2	03/03/1994	110,000	NA	21,000	24,000	2,000	13,000	NA	NA	45.83	18.48	27.35	NA	NA
MW-2 (D)	03/03/1994	93,000	NA	19,000	22,000	1,800	12,000	NA	NA	45.83	18.48	27.35	NA	NA
MW-2	06/06/1994	10,000	NA	1,900	3,300	2,500	13,000	NA	NA	45.83	20.26	25.57	NA	NA
MW-2 (D)	06/06/1994	99,000	NA	9,900	12,000	2,400	12,000	NA	NA	45.83	20.26	25.57	NA	NA
MW-2	09/12/1994	160,000	NA	22,000	33,000	3,400	23,000	NA	NA	45.83	21.80	24.03	NA	NA
MW-2 (D)	09/12/1994	150,000	NA	23,000	34,000	3,500	23,000	NA	NA	45.83	21.80	24.03	NA	NA
MW-2	12/19/1994	80,000	NA	17,000	16,000	2,300	14,000	NA	NA	45.83	19.66	26.17	NA	NA
MW-2 (D)	12/19/1994	100,000	NA	28,000	26,000	3,400	20,000	NA	NA	45.83	19.66	26.17	NA	NA
MW-2	02/28/1995	100,000	NA	24,000	18,000	2,300	17,000	NA	NA	45.83	17.51	28.32	NA	NA
MW-2 (D)	02/28/1995	100,000	NA	31,000	21,000	3,200	18,000	NA	NA	45.83	17.51	28.32	NA	NA
MW-2	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	45.83	14.88	30.95	NA	NA
MW-2	06/26/1995	45,000	NA	14,000	12,000	1,500	7,500	NA	NA	45.83	17.58	28.25	NA	NA
MW-2 (D)	06/26/1995	68,000	NA	13,000	11,000	1,800	7,700	NA	NA	45.83	17.58	28.25	NA	NA
MW-2	09/13/1995	110,000	NA	19,000	19,000	2,800	15,000	NA	NA	45.83	19.28	26.55	NA	NA
MW-2 (D)	09/13/1995	120,000	NA	20,000	20,000	2,900	15,000	NA	NA	45.83	19.28	26.55	NA	NA
MW-2	12/19/1995	180,000	NA	18,000	29,000	4,100	24,000	NA	NA	45.83	18.61	27.22	NA	NA
MW-2 (D)	12/19/1995	160,000	NA	18,000	28,000	3,800	24,000	NA	NA	45.83	18.61	27.22	NA	NA

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MW-2	03/06/1996	120,000	NA	28,000	15,000	3,900	17,000	NA	NA	45.83	15.41	30.42	NA	NA
MW-2	06/28/1996	96,000	NA	20,000	20,000	4,100	22,000	2,400	NA	45.83	17.84	27.99	NA	NA
MW-2	09/26/1996	87,000	NA	7,600	11,000	2,500	15,000	990	840	45.83	19.60	26.23	NA	NA
MW-2	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.15	27.88	0.25	NA
MW-2	03/10/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.02	28.97	0.20	NA
MW-2	06/30/1997	57,000	NA	3,600	4,600	1,300	9,700	2,300	NA	45.83	19.42	26.41	NA	2.4
MW-2	09/12/1997	88,000	NA	7,800	8,800	2,600	16,000	3,200	NA	45.83	19.40	26.43	NA	1.7
MW-2 (D)	09/12/1997	90,000	NA	8,300	9,400	2,700	17,000	3,400	NA	45.83	19.40	26.43	NA	1.7
MW-2 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.56	28.27	NA	1.3
MW-2	02/02/1998	<50	NA	0.6	1.9	0.93	6.0	9.3	NA	45.83	18.14	27.69	NA	2
MW-2 (D)	02/02/1998	56	NA	1.0	2.8	1.4	9.3	13	NA	45.83	18.14	27.69	NA	2
MW-2	06/24/1998	20,000	NA	<200	620	560	4,500	<1,000	NA	45.83	16.08	29.75	NA	2.4
MW-2	08/26/1998	22,000	NA	380	1,100	560	4,400	330	NA	45.83	19.25	26.58	NA	NA
MW-2 (D)	08/26/1998	11,000	NA	180	130	290	500	1,400	NA	45.83	19.25	26.58	NA	NA
MW-2	12/23/1998	100,000	NA	4,100	6,500	2,400	16,000	<500	NA	45.83	18.29	27.54	NA	3.8
MW-2	03/01/1999	50,800	NA	3,910	7,480	1,890	13,100	9,620	NA	45.83	22.81	23.02	NA	2.0
MW-2	06/14/1999	4,930	NA	128	270	139	1,040	2,200	2,540*	45.83	18.86	26.97	NA	1.6
MW-2	09/28/1999	16,200	NA	647	1,070	542	4,130	5,320	4,790	45.83	21.41	24.42	NA	1.8
MW-2	12/08/1999	25,700	NA	1,670	2,110	977	6,600	6,190	5,970	45.83	21.89	23.94	NA	1.8
MW-2	03/14/2000	45,100	NA	2,070	4,710	1,920	12,800	16,700	18,300*	45.83	15.57	30.26	NA	2.0
MW-2	06/28/2000	52,100	NA	5,150	4,200	1,880	13,300	15,500	13,500*	45.83	17.79	28.04	NA	1.9
MW-2	09/06/2000	39,500	NA	4,490	3,290	2,100	14,000	18,500	9,060*	45.83	18.65	27.18	NA	3.5
MW-2	12/14/2000	209	NA	3.51	1.11	1.00	64.4	79.4	NA	45.83	19.00	26.83	NA	1.5
MW-2	03/05/2001	38,200	NA	2,010	927	1,250	8,300	13,100	15,400	45.83	16.66	29.17	NA	1.0
MW-2	06/11/2001	50,000	NA	4,400	2,200	1,800	11,000	NA	26,000	45.83	18.93	26.90	NA	1.7
MW-2	09/12/2001	59,000	NA	6,100	2,800	2,300	14,000	NA	21,000	45.83	19.85	25.98	NA	1.6
MW-2	12/27/2001	74,000	NA	8,600	2,500	2,500	17,000	NA	25,000	45.83	17.85	27.98	NA	2.6

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MW-2	02/27/2002	70,000	NA	8,100	2,600	2,100	13,000	NA	32,000	45.79	17.15	28.64	NA	2.0
MW-2	06/18/2002	72,000	NA	9,500	3,000	2,200	13,000	NA	29,000	45.79	18.49	27.30	NA	0.6
MW-2	09/18/2002	48,000	NA	7,600	850	1,300	6,300	NA	8,700	45.79	19.95	25.84	NA	1.0
MW-2	12/27/2002	40,000	NA	5,900	1,200	1,400	7,800	NA	19,000	45.79	16.71	29.08	NA	1.0
MW-2	03/05/2003	62,000	NA	13,000	1,400	2,000	7,900	NA	21,000	45.79	17.72	28.07	NA	1.4
MW-2	**06/24/2003**	**19,000**	**NA**	**9,500**	**530**	**700**	**2,900**	**NA**	**14,000**	**45.79**	**18.30**	**27.49**	**NA**	**1.4**
MW-3	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	27.97	24.00	NA	NA
MW-3	02/24/1992	4,500	1,300a	97	<5	78	18	NA	NA	51.97	25.60	26.37	NA	NA
MW-3	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	25.88	26.09	NA	NA
MW-3	03/01/1992	2,200	440	69	<0.5	<0.5	<0.5	NA	NA	51.97	26.00	25.97	NA	NA
MW-3	06/03/1992	4,100	NA	13	72	44	65	NA	NA	51.97	27.70	24.27	NA	NA
MW-3	09/01/1992	1,900	NA	20	6.8	5.5	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3 (D)	09/01/1992	1,900	NA	21	6.6	3.4	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.01	21.96	NA	NA
MW-3	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.26	21.71	NA	NA
MW-3	12/04/1992	2,400	NA	8.2	<5	<5	<5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3 (D)	12/04/1992	2,100	NA	11	<0.5	5.7	<0.5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	22.76	29.21	NA	NA
MW-3	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.40	30.57	NA	NA
MW-3	03/03/1993	5,100	NA	63	61	75	150	NA	NA	51.97	23.08	28.89	NA	NA
MW-3	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	24.51	27.46	NA	NA
MW-3	06/17/1993	4,000	NA	94	140	82	150	NA	NA	51.97	25.21	26.76	NA	NA
MW-3	09/10/1993	3,200	NA	140	12.5	12.5	12.5	NA	NA	51.97	26.95	25.02	NA	NA
MW-3	12/13/1993	6,200	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	51.97	26.52	25.45	NA	NA
MW-3	03/03/1994	4,500	NA	73	<5	<5	<5	NA	NA	51.97	24.50	27.47	NA	NA
MW-3	06/06/1994	3,200	NA	<0.5	<0.5	3.1	<0.5	NA	NA	51.97	26.33	25.64	NA	NA

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MW-3	09/12/1994	3,900	NA	<0.5	<0.5	9.6	4.1	NA	NA	51.97	27.98	23.99	NA	NA
MW-3	12/19/1994	2,400	NA	21	22	4.2	2.6	NA	NA	51.97	25.63	26.34	NA	NA
MW-3	02/28/1995	4,000	NA	58	<0.5	7.1	3.5	NA	NA	51.97	23.45	28.52	NA	NA
MW-3	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.07	30.90	NA	NA
MW-3	06/26/1995	3,900	NA	8.1	<0.5	12	2.4	NA	NA	51.97	23.64	28.33	NA	NA
MW-3	09/13/1995	4,100	NA	58	5.5	5.5	<0.5	NA	NA	51.97	25.40	26.57	NA	NA
MW-3	12/19/1995	3,600	NA	<0.5	4.3	2.1	1.1	NA	NA	51.97	24.53	27.44	NA	NA
MW-3	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.59	30.41	0.04	NA
MW-3	06/28/1996	2,400	NA	55	<0.5	<0.5	11	120	NA	51.97	23.95	28.02	NA	NA
MW-3	09/26/1996	2,500	NA	<5.0	<5.0	<5.0	<5.0	160	NA	51.97	25.89	26.08	NA	NA
MW-3	12/10/1996	1,600	NA	28	4.2	<2.0	3.9	110	NA	51.97	24.22	27.75	NA	0.8
MW-3	03/10/1997	130	NA	<0.50	<0.50	<0.50	1.4	4.2	NA	51.97	23.05	28.92	NA	2.8
MW-3	06/30/1997	1,200	NA	21	2.3	<2.0	<2.0	69	NA	51.97	24.34	27.63	NA	2.3
MW-3	09/12/1997	440	NA	8.3	0.82	<0.50	1.9	3.4	NA	51.97	24.47	27.50	NA	1.9
MW-3 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	51.97	23.54	28.43	NA	0.8
MW-3	02/02/1998	400	NA	9.3	0.68	<0.50	<0.50	9	NA	51.97	21.92	30.05	NA	1.5
MW-3	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.97	22.35	29.62	NA	1.9
MW-3	08/26/1998	140	NA	7.4	<0.50	<0.50	2.5	13	NA	51.97	23.45	28.52	NA	1.3
MW-3	12/23/1998	1,200	NA	50	<2.0	<2.0	<2.0	69	NA	51.97	24.01	27.96	NA	4.2
MW-3	03/01/1999	2,550	NA	<0.500	<0.500	<0.500	0.658	32.4	NA	51.97	22.08	29.89	NA	2.0
MW-3	06/14/1999	514	NA	18.1	0.728	<0.500	<0.500	15.9	NA	51.97	23.15	28.82	NA	1.7
MW-3	09/28/1999	1,180	NA	<1.00	<1.00	<1.00	<1.00	<10.0	NA	51.97	25.36	26.61	NA	1.2
MW-3	12/08/1999	1,740	NA	71.5	23.0	24.2	61.3	103	NA	51.97	25.75	26.22	NA	2.0
MW-3	03/14/2000	1,410	NA	5.63	35.6	<5.00	8.41	38.7	NA	51.97	21.64	30.33	NA	2.1
MW-3	06/28/2000	2,460	NA	<5.00	9.48	<5.00	28.4	64.0	NA	51.97	23.84	28.13	NA	2.87
MW-3	09/06/2000	887	NA	<1.00	<1.00	<1.00	<1.00	<10.0	NA	51.97	24.73	27.24	NA	2.0
MW-3	12/14/2000	955	NA	25.4	1.96	<0.500	1.13	10.2	NA	51.97	25.45	26.52	NA	2.1

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	03/05/2001	2,100	NA	4.90	56.5	<2.00	3.62	261	NA	51.97	22.83	29.14	NA	0.8
MW-3	06/11/2001	2,000	NA	1.0	<0.50	<0.50	<0.50	NA	<0.50	51.97	25.20	26.77	NA	0.7
MW-3	09/12/2001	1,500	NA	0.50	0.54	<0.50	1.8	NA	<5.0	51.97	26.15	25.82	NA	1.5
MW-3	12/27/2001	2,100	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.97	23.67	28.30	NA	1.9
MW-3	02/27/2002	2,300	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.92	23.23	28.69	NA	1.5
MW-3	06/18/2002	2,000	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	51.92	24.74	27.18	NA	2.0
MW-3	09/18/2002	2,600	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.92	26.05	25.87	NA	1.4
MW-3	12/27/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	51.92	NA	NA	NA	NA
MW-3	03/05/2003	2,300	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.92	23.84	28.08	NA	1.3
MW-3	06/25/2003	1,800 c	NA	0.71	<0.50	<0.50	<1.0	NA	0.54	51.92	24.48	27.44	NA	1.3
MW-3	**06/24/2003**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**51.92**	**NA**	**NA**	**NA**	**NA**
MW-3	**06/25/2003**	**1,800 c**	**NA**	**0.71**	**<0.50**	**<0.50**	**<1.0**	**NA**	**0.54**	**51.92**	**24.48**	**27.44**	**NA**	**1.2**
MW-4	03/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.16	31.35	NA	NA
MW-4	06/26/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.06	28.45	NA	NA
MW-4	09/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	13.90	26.61	NA	NA
MW-4	12/19/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.90	27.61	NA	NA
MW-4	03/06/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.63	30.88	NA	NA
MW-4	06/28/1996	40	NA	<0.5	0.59	0.97	3.8	26	NA	40.51	12.30	28.21	NA	NA
MW-4	09/26/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	14.12	26.39	NA	NA
MW-4	12/10/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	12.31	28.20	NA	1.2
MW-4	03/10/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.34	29.17	NA	NA
MW-4	06/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.80	26.71	NA	1.9
MW-4	09/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.99	26.52	NA	1.7
MW-4 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.02	28.49	NA	1.8
MW-4	02/02/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.23	29.28	NA	1
MW-4	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	10.58	29.93	NA	1.9

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)	DO Reading (ppm)
MW-4	08/26/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.75	28.76	NA	1.2
MW-4	12/23/1998	<50	NA	0.60	<0.50	<0.50	<0.50	<2.5	NA	40.51	12.41	28.10	NA	4.2
MW-4	03/01/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	40.51	10.38	30.13	NA	2.1
MW-4	06/14/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	11.91	28.60	NA	2.4
MW-4	09/28/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	40.51	10.19	30.32	NA	2.2
MW-4	12/08/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	10.67	29.84	NA	1.8
MW-4	03/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	9.95	30.56	NA	2.5
MW-4	06/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	12.22	28.29	NA	0.9
MW-4	09/06/2000	NA	NA	NA	NA	NA	NA	NA	NA	40.51	13.17	27.34	NA	3.0
MW-4	12/14/2000	NA	NA	NA	NA	NA	NA	NA	NA	40.51	8.65	31.86	NA	NA
MW-4	03/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	11.07	29.44	NA	NA
MW-4	06/11/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.51	13.62	26.89	NA	1.3
MW-4	09/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	14.61	25.90	NA	NA
MW-4	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.19	28.32	NA	NA
MW-4	02/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.45	11.64	28.81	NA	NA
MW-4	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.45	13.22	27.23	NA	0.6
MW-4	09/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.45	14.46	25.99	NA	NA
MW-4	12/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.45	11.23	29.22	NA	NA
MW-4	03/05/2003	NA	NA	NA	NA	NA	NA	NA	NA	40.45	12.22	28.23	NA	NA
MW-4	**06/24/2003**	**57 c**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**12**	**40.45**	**12.79**	**27.66**	**NA**	**1.6**
MW-5	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.46	12.82	28.64	NA	NA
MW-5	02/27/2002	190	NA	<0.50	<0.50	0.85	1.5	NA	<5.0	41.46	12.85	28.61	NA	1.9
MW-5	06/18/2002	650	NA	1.4	3.0	52	28	NA	<0.50	41.46	13.65	27.81	NA	0.8
MW-5	09/18/2002	390	NA	0.72	0.51	<0.50	<0.50	NA	<5.0	41.46	15.57	25.89	NA	1.1
MW-5	12/27/2002	380	NA	<0.50	<0.50	0.56	<0.50	NA	<0.50	41.46	12.51	28.95	NA	1.9
MW-5	03/05/2003	290	NA	<0.50	1.7	9.4	22	NA	<5.0	41.46	13.39	28.07	NA	2.6

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)	DO Reading (ppm)
MW-5	**06/24/2003**	**220**	**NA**	**<0.50**	**1.0**	**19**	**1.3**	**NA**	**<0.50**	**41.46**	**13.91**	**27.55**	**NA**	**1.7**
MW-6	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.50	3.88	37.62	NA	NA
MW-6	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.50	12.43	29.07	NA	NA
MW-6	02/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.50	12.82	28.68	NA	4.1
MW-6	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	41.50	4.26	37.24	NA	3.9
MW-6	09/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.50	5.26	36.24	NA	4.2
MW-6	12/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	41.50	12.11	29.39	NA	3.0
MW-6	03/05/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.50	13.47	28.03	NA	4.9
MW-6	**06/24/2003**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**41.50**	**13.71**	**27.79**	**NA**	**5.8**
MW-7	10/21/2002	NA	NA	NA	NA	NA	NA	NA	NA	44.45	18.90	25.55	NA	NA
MW-7	12/27/2002	49,000	NA	830	980	2,000	5,200	NA	<10	44.45	15.43	29.02	NA	2.1
MW-7	03/05/2003	32,000	NA	370	490	1,600	2,900	NA	<100	44.45	16.34	28.11	NA	2.6
MW-7	**06/24/2003**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**44.45**	**NA**	**NA**	**NA**	**NA**
MW-8	10/21/2002	NA	NA	NA	NA	NA	NA	NA	NA	43.27	17.70	25.57	NA	NA
MW-8	12/27/2002	30,000	NA	280	220	2,000	5,300	NA	<10	43.27	14.25	29.02	NA	1.2
MW-8	03/05/2003	30,000	NA	220	150	2,100	4,200	NA	<100	43.27	15.36	27.91	NA	1.3
MW-8	**06/24/2003**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**43.27**	**NA**	**NA**	**NA**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)	DO Reading (ppm)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 11, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 11, 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
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:
a = Chromatogram pattern indicates an unidentified hydrocarbon.
b = Samples not analyzed due to laboratory oversight.
c = Hydrocarbon does not match pattern of laboratory's standard.
* = Sample analyzed out of EPA recommended hold time.
Site surveyed January 23, 2002, by Virgil Chavez Land Surveying of Vallejo, California.
Survey data for wells MW-7 and MW-8 provided by Cambria Environmental Technology.

SEVERN TRENT STL

Submission#: 2003-06-0850

Blaine Tech Services, Inc.

July 10, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

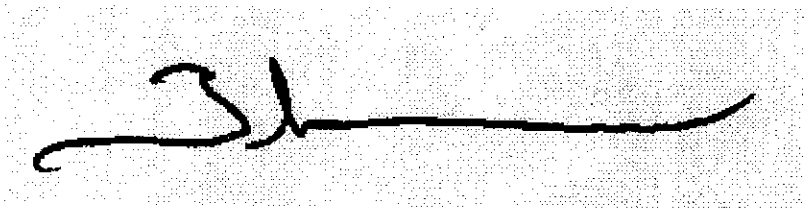
Project#: 030625-DW-3
Project: 98996068
Site: 1784 150th Ave., San Leandro

Dear Mr.Gearhart,

Attached is our report for your samples received on 06/26/2003 15:25
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/10/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

SEVERN TRENT STL

Submission #: 2003-06-0850

Gas/BTEX Fuel Oxygenates 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: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	06/25/2003 14:31	Water	1
MW-3	06/25/2003 14:07	Water	2

Gas/BTEX Fuel Oxygenates 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: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2003-06-0850 - 1
Sampled:	06/25/2003 14:31	Extracted:	7/5/2003 14:18
Matrix:	Water	QC Batch#:	2003/07/05-1a.62

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	14000	5000	ug/L	100.00	07/05/2003 14:18	
Benzene	5300	50	ug/L	100.00	07/05/2003 14:18	
Toluene	250	50	ug/L	100.00	07/05/2003 14:18	
Ethylbenzene	440	50	ug/L	100.00	07/05/2003 14:18	
Total xylenes	2100	100	ug/L	100.00	07/05/2003 14:18	
tert-Butyl alcohol (TBA)	ND	500	ug/L	100.00	07/05/2003 14:18	
Methyl tert-butyl ether (MTBE)	100	50	ug/L	100.00	07/05/2003 14:18	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	07/05/2003 14:18	
1,2-DCA	ND	50	ug/L	100.00	07/05/2003 14:18	
Surrogates(s)						
1,2-Dichloroethane-d4	92.8	76-130	%	100.00	07/05/2003 14:18	
Toluene-d8	98.7	78-115	%	100.00	07/05/2003 14:18	

Gas/BTEX Fuel Oxygenates 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: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-06-0850 - 2
Sampled:	06/25/2003 14:07	Extracted:	7/5/2003 14:41
Matrix:	Water	QC Batch#:	2003/07/05-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1800	50	ug/L	1.00	07/05/2003 14:41	g
Benzene	0.71	0.50	ug/L	1.00	07/05/2003 14:41	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 14:41	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 14:41	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 14:41	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 14:41	
Methyl tert-butyl ether (MTBE)	0.54	0.50	ug/L	1.00	07/05/2003 14:41	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/05/2003 14:41	
1,2-DCA	1.1	0.50	ug/L	1.00	07/05/2003 14:41	
Surrogates(s)						
1,2-Dichloroethane-d4	91.1	76-130	%	1.00	07/05/2003 14:41	
Toluene-d8	103.1	78-115	%	1.00	07/05/2003 14:41	

Gas/BTEX Fuel Oxygenates 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: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/07/05-1a.62-051

Water

Test(s): 8260FAB
QC Batch # 2003/07/05-1a.62
Date Extracted: 07/05/2003 09:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/05/2003 09:51	
Gasoline	ND	50	ug/L	07/05/2003 09:51	
Benzene	ND	0.5	ug/L	07/05/2003 09:51	
Toluene	ND	0.5	ug/L	07/05/2003 09:51	
Ethylbenzene	ND	0.5	ug/L	07/05/2003 09:51	
Total xylenes	ND	1.0	ug/L	07/05/2003 09:51	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/05/2003 09:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/05/2003 09:51	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/05/2003 09:51	
1,2-DCA	ND	0.5	ug/L	07/05/2003 09:51	
Surrogates(s)					
1,2-Dichloroethane-d4	92.5	76-130	%	07/05/2003 09:51	
Toluene-d8	99.2	78-115	%	07/05/2003 09:51	

Gas/BTEX Fuel Oxygenates 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: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/07/05-1a.62**

LCS 2003/07/05-1a.62-007 Extracted: 07/05/2003 Analyzed: 07/05/2003 09:07

LCSD 2003/07/05-1a.62-029 Extracted: 07/05/2003 Analyzed: 07/05/2003 09:29

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	27.1	27.3	25	108.4	109.2	0.7	69-129	20		
Toluene	25.9	26.7	25	103.6	106.8	3.0	70-130	20		
Methyl tert-butyl ether (MTBE)	29.4	28.4	25	117.6	113.6	3.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	486	468	500	97.2	93.6		76-130			
Toluene-d8	518	517	500	103.6	103.4		78-115			

Gas/BTEX Fuel Oxygenates 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: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

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.

SEVERN TRENT STL

Submission #: 2003-06-0850

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	06/25/2003 14:07	Water	2

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s): 5030B
Sample ID: **MW-3**
Sampled: 06/25/2003 14:07
Matrix: Water
Analysis Flag: Irn (See Legend and Note Section)

Test(s): 8260B
Lab ID: 2003-06-0850 - 2
Extracted: 7/8/2003 16:11
QC Batch#: 2003/07/08-V1.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	2.0	ug/L	2.00	07/08/2003 16:11	
Vinyl chloride	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Chloroethane	ND	2.0	ug/L	2.00	07/08/2003 16:11	
Trichlorofluoromethane	ND	2.0	ug/L	2.00	07/08/2003 16:11	
1,1-Dichloroethene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Methylene chloride	ND	10	ug/L	2.00	07/08/2003 16:11	
trans-1,2-Dichloroethene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
cis-1,2-Dichloroethene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,1-Dichloroethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Chloroform	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,1,1-Trichloroethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Carbon tetrachloride	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,2-Dichloroethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Trichloroethene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,2-Dichloropropane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Bromodichloromethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
2-Chloroethylvinyl ether	ND	1.0	ug/L	2.00	07/08/2003 16:11	
trans-1,3-Dichloropropene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
cis-1,3-Dichloropropene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,1,2-Trichloroethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Tetrachloroethene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Dibromochloromethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Chlorobenzene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Bromoform	ND	4.0	ug/L	2.00	07/08/2003 16:11	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,3-Dichlorobenzene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,4-Dichlorobenzene	ND	1.0	ug/L	2.00	07/08/2003 16:11	
1,2-Dichlorobenzene	ND	1.0	ug/L	2.00	07/08/2003 16:11	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s): 5030B
Test(s): 8260B
Sample ID: **MW-3**
Lab ID: 2003-06-0850 - 2
Sampled: 06/25/2003 14:07
Extracted: 7/8/2003 16:11
Matrix: Water
QC Batch#: 2003/07/08-V1.09
Analysis Flag: Im (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	1.0	ug/L	2.00	07/08/2003 16:11	
Chloromethane	ND	2.0	ug/L	2.00	07/08/2003 16:11	
Bromomethane	ND	2.0	ug/L	2.00	07/08/2003 16:11	
Surrogates(s)						
4-Bromofluorobenzene	93.5	86-115	%	2.00	07/08/2003 16:11	
1,2-Dichloroethane-d4	94.0	76-114	%	2.00	07/08/2003 16:11	
Toluene-d8	100.4	88-110	%	2.00	07/08/2003 16:11	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2003/07/08-V1.09**

MB: 2003/07/08-V1.09-004 — Date Extracted: 07/08/2003 13:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	0.5	ug/L	07/08/2003 13:28	
Bromoform	ND	2.0	ug/L	07/08/2003 13:28	
Bromomethane	ND	1.0	ug/L	07/08/2003 13:28	
Carbon tetrachloride	ND	0.5	ug/L	07/08/2003 13:28	
Chlorobenzene	ND	0.5	ug/L	07/08/2003 13:28	
Chloroethane	ND	1.0	ug/L	07/08/2003 13:28	
2-Chloroethylvinyl ether	ND	0.5	ug/L	07/08/2003 13:28	
Chloroform	ND	0.5	ug/L	07/08/2003 13:28	
Chloromethane	ND	1.0	ug/L	07/08/2003 13:28	
Dibromochloromethane	ND	0.5	ug/L	07/08/2003 13:28	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/08/2003 13:28	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/08/2003 13:28	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/08/2003 13:28	
Dichlorodifluoromethane	ND	1.0	ug/L	07/08/2003 13:28	
1,1-Dichloroethane	ND	0.5	ug/L	07/08/2003 13:28	
1,2-Dichloroethane	ND	0.5	ug/L	07/08/2003 13:28	
1,1-Dichloroethene	ND	0.5	ug/L	07/08/2003 13:28	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/08/2003 13:28	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/08/2003 13:28	
1,2-Dichloropropane	ND	0.5	ug/L	07/08/2003 13:28	
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/08/2003 13:28	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/08/2003 13:28	
Methylene chloride	ND	5.0	ug/L	07/08/2003 13:28	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/08/2003 13:28	
Tetrachloroethene	ND	0.5	ug/L	07/08/2003 13:28	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/08/2003 13:28	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/08/2003 13:28	
Trichloroethene	ND	0.5	ug/L	07/08/2003 13:28	
Trichlorofluoromethane	ND	1.0	ug/L	07/08/2003 13:28	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2003/07/08-V1.09**

MB: 2003/07/08-V1.09-004 — Date Extracted: 07/08/2003 13:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Trichlorotrifluoroethane	ND	0.5	ug/L	07/08/2003 13:28	
Vinyl chloride	ND	0.5	ug/L	07/08/2003 13:28	
Surrogates(s)					
4-Bromofluorobenzene	92.5	86-115	%	07/08/2003 13:28	
1,2-Dichloroethane-d4	89.9	76-114	%	07/08/2003 13:28	
Toluene-d8	95.5	88-110	%	07/08/2003 13:28	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike | **Water** | **QC Batch # 2003/07/08-V1.09**

LCS 2003/07/08-V1.09-002 Extracted: 07/08/2003 Analyzed: 07/08/2003 12:30

LCSD 2003/07/08-V1.09-003 Extracted: 07/08/2003 Analyzed: 07/08/2003 13:01

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	22.6	22.2	20	113.0	111.0	1.8	61-121	20		
1,1-Dichloroethene	20.1	21.5	20	100.5	107.5	6.7	65-125	20		
Trichloroethene	19.9	19.0	20	99.5	95.0	4.6	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	476	475	500	95.2	95.0		86-115			
1,2-Dichloroethane-d4	437	463	500	87.4	92.6		76-114			
Toluene-d8	499	501	500	99.8	100.2		88-110			

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030625-DW-3
98996068

Received: 06/26/2003 15:25

Site: 1784 150th Ave., San Leandro

Legend and Notes

Analysis Flag

lm

Reporting limits raised due to high level of non-target analyte materials.

LAB: ___

Lab Identification (if necessary):

Address:

City, State, Zip:

SHELL Chain Of Custody Record

t2024

Shell Project Manager to be invoiced:

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Karen Petryna

2003-06-0850

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 6 0 6 8

SAP or CRMT NUMBER (TS/CRMT):

DATE: 6-25-03

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 1784 150th Ave., San Leandro	GLOBAL ID NO.: T0600101230
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml	PHONE NO.: (510) 420-3335
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: 030625-DW-3 BTS #
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	SAMPLER NAME(S) (Print): Dave Walter

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): [X] 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°: 2.0 °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)	Voc's (8260b)	TPH - Diesel, Extractable (8015m)	TAME, TBA, 1,2-DCA									MTBE (8260B) Confirmation, See Note	FIELD NOTES
	mw-1	6-25	1431	w	3	X	X		X							X										
	mw-3	6-25	1407	w	6	X	X		X					X		X										

Relinquished by: (Signature) David C. Walter	Received by: (Signature) [signature]	Date: 6/26/03	Time: 1525
Relinquished by: (Signature) [signature] 6/26 '80'	Received by: (Signature) [signature]	Date: 6/26/03	Time: 1801
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

GMO Graphic (714) 828-9702

SEVERN TRENT STL

Submission#: 2003-06-0803

Blaine Tech Services, Inc.

July 09, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

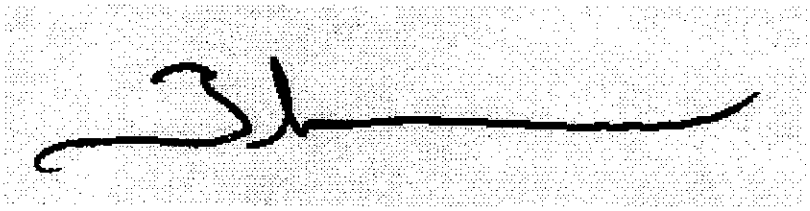
Project#: 030624-MM3
Project: 98996068
Site: 1784 150th Ave., San Leandro

Dear Mr.Gearhart,

Attached is our report for your samples received on 06/25/2003 15:25
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/09/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

SEVERN TRENT STL

Submission #: 2003-06-0803

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	06/24/2003 17:25	Water	1
MW-4	06/24/2003 16:20	Water	2
MW-5	06/24/2003 16:55	Water	3
MW-6	06/24/2003 14:40	Water	4

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2003-06-0803 - 1
Sampled:	06/24/2003 17:25	Extracted:	7/5/2003 10:12
Matrix:	Water	QC Batch#:	2003/07/05-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	19000	10000	ug/L	200.00	07/05/2003 10:12	
Benzene	9500	100	ug/L	200.00	07/05/2003 10:12	
Toluene	530	100	ug/L	200.00	07/05/2003 10:12	
Ethylbenzene	700	100	ug/L	200.00	07/05/2003 10:12	
Total xylenes	2900	200	ug/L	200.00	07/05/2003 10:12	
tert-Butyl alcohol (TBA)	6000	1000	ug/L	200.00	07/05/2003 10:12	
Methyl tert-butyl ether (MTBE)	14000	100	ug/L	200.00	07/05/2003 10:12	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	07/05/2003 10:12	
1,2-DCA	ND	100	ug/L	200.00	07/05/2003 10:12	
Surrogates(s)						
1,2-Dichloroethane-d4	97.8	76-130	%	200.00	07/05/2003 10:12	
Toluene-d8	102.7	78-115	%	200.00	07/05/2003 10:12	

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-4**	Lab ID:	2003-06-0803 - 2
Sampled:	06/24/2003 16:20	Extracted:	7/5/2003 12:03
Matrix:	Water	QC Batch#:	2003/07/05-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	57	50	ug/L	1.00	07/05/2003 12:03	g
Benzene	ND	0.50	ug/L	1.00	07/05/2003 12:03	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 12:03	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 12:03	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 12:03	
Methyl tert-butyl ether (MTBE)	12	0.50	ug/L	1.00	07/05/2003 12:03	
Surrogates(s)						
1,2-Dichloroethane-d4	105.5	76-130	%	1.00	07/05/2003 12:03	
Toluene-d8	99.4	78-115	%	1.00	07/05/2003 12:03	

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-5**	Lab ID:	2003-06-0803 - 3
Sampled:	06/24/2003 16:55	Extracted:	7/7/2003 10:55
Matrix:	Water	QC Batch#:	2003/07/07-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	220	50	ug/L	1.00	07/07/2003 10:55	
Benzene	ND	0.50	ug/L	1.00	07/07/2003 10:55	
Toluene	1.0	0.50	ug/L	1.00	07/07/2003 10:55	
Ethylbenzene	19	0.50	ug/L	1.00	07/07/2003 10:55	
Total xylenes	1.3	1.0	ug/L	1.00	07/07/2003 10:55	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/07/2003 10:55	
Surrogates(s)						
1,2-Dichloroethane-d4	90.3	76-130	%	1.00	07/07/2003 10:55	
Toluene-d8	99.8	78-115	%	1.00	07/07/2003 10:55	

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-6**	Lab ID:	2003-06-0803 - 4
Sampled:	06/24/2003 14:40	Extracted:	7/5/2003 11:19
Matrix:	Water	QC Batch#:	2003/07/05-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/05/2003 11:19	
Benzene	ND	0.50	ug/L	1.00	07/05/2003 11:19	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 11:19	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 11:19	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 11:19	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 11:19	
Surrogates(s)						
1,2-Dichloroethane-d4	103.5	76-130	%	1.00	07/05/2003 11:19	
Toluene-d8	99.7	78-115	%	1.00	07/05/2003 11:19	

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/07/05-1a.64**

MB: 2003/07/05-1a.64-050 — Date Extracted: 07/05/2003 09:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/05/2003 09:50	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/05/2003 09:50	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/05/2003 09:50	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/05/2003 09:50	
1,2-DCA	ND	0.5	ug/L	07/05/2003 09:50	
Benzene	ND	0.5	ug/L	07/05/2003 09:50	
Toluene	ND	0.5	ug/L	07/05/2003 09:50	
Ethylbenzene	ND	0.5	ug/L	07/05/2003 09:50	
Total xylenes	ND	1.0	ug/L	07/05/2003 09:50	
Surrogates(s)					
1,2-Dichloroethane-d4	101.9	76-130	%	07/05/2003 09:50	
Toluene-d8	104.1	78-115	%	07/05/2003 09:50	

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/07/07-1a.65**

MB: 2003/07/07-1a.65-033 — Date Extracted: 07/07/2003 10:33

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/07/2003 10:33	
Benzene	ND	0.5	ug/L	07/07/2003 10:33	
Toluene	ND	0.5	ug/L	07/07/2003 10:33	
Ethylbenzene	ND	0.5	ug/L	07/07/2003 10:33	
Total xylenes	ND	1.0	ug/L	07/07/2003 10:33	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/07/2003 10:33	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/07/2003 10:33	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/07/2003 10:33	
1,2-DCA	ND	0.5	ug/L	07/07/2003 10:33	
Surrogates(s)					
1,2-Dichloroethane-d4	88.5	76-130	%	07/07/2003 10:33	
Toluene-d8	106.5	78-115	%	07/07/2003 10:33	

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/07/05-1a.64**

LCS 2003/07/05-1a.64-006 Extracted: 07/05/2003 Analyzed: 07/05/2003 09:06

LCSD 2003/07/05-1a.64-028 Extracted: 07/05/2003 Analyzed: 07/05/2003 09:28

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.8	27.1	25	107.2	108.4	1.1	65-165	20		
Benzene	23.2	24.0	25	92.8	96.0	3.4	69-129	20		
Toluene	23.7	24.6	25	94.8	98.4	3.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	508	505	500	101.6	101.0		76-130			
Toluene-d8	512	516	500	102.4	103.2		78-115			

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/07/07-1a.65**

LCS 2003/07/07-1a.65-048 Extracted: 07/07/2003 Analyzed: 07/07/2003 09:48

LCSD 2003/07/07-1a.65-011 Extracted: 07/07/2003 Analyzed: 07/07/2003 10:11

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	24.9	24.6	25	99.6	98.4	1.2	69-129	20		
Toluene	23.9	22.5	25	95.6	90.0	6.0	70-130	20		
Methyl tert-butyl ether (MTBE)	20.8	19.9	25	83.2	79.6	4.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	468	462	500	93.6	92.4		76-130			
Toluene-d8	488	507	500	97.6	101.4		78-115			

Gas/BTEX Fuel Oxygenates 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: 030624-MM3
98996068

Received: 06/25/2003 15:25

Site: 1784 150th Ave., San Leandro

Legend and Notes

Result Flag

g

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

LAB: ______

Lab Identification (if necessary):

Address:

City, State, Zip:

SHELL Chain Of Custody Record

73481

Shell Project Manager to be invoiced:

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Karen Petryna

2003-06-0803

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 6 0 6 8

SAP or CRMT NUMBER (TS/CRMT):

DATE: 6-24-03

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services | LOG CODE: BTSS | SITE ADDRESS (Street and City): 1784 150th Ave., San Leandro | GLOBAL ID NO.: T0600101230

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.: BTS # 030624-mm3

PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart

SAMPLER NAME(S) (Print): MIKE McNAMARA

TELEPHONE: 408-573-0555 | FAX: 408-573-7771 | E-MAIL: lgearhart@blainetech.com

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): [x] 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°: 2.0 °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)	TPH - Diesel, Extractable (8015m)	TAME, TBA	1,2-DCA						MTBE (8260B) Confirmation, See Note	FIELD NOTES
	mw-2	6/24	1725	W	3	X	X	[illegible]	X						X	X							
	mw-4	↓	1620	↓	3	X	X		X														
	mw-5		1655		3	X	X		X														
	mw-6		1440		3	X	X		X														

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	6/25/03	1525
[signature] 6/25/03 1810	[signature]	6/25/03	1810

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

10/16/00 Revision

WELL GAUGING DATA

Project # 030625-DW-3 Date 6-25-03 Client Shell

Site _____

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	
MW-1	4					21.93	44.72	(TOC)	
MW-3	4					24.48	41.75	(TOC)	
		Removed caps prior to gauging							

SHELL WELL MONITORING DATA SHEET

BTS #: 030625-DW-3	Site: 1784 150th Ave San Leandro
Sampler: Dave Walter	Date: 6-25-03
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 44.72	Depth to Water: 21.93
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer; Disposable Bailer; Middleburg; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

14.8 (Gals.)	X	3	=	44.4 Gals.
1 Case Volume		Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
14:20	78.7	6.9	1651	7	15	odor
14:23	75.8	6.8	1685	5	30	
14:26	73.7	6.7	1712	21	60	
					80% recharge = 26.48	

Did well dewater? Yes (No) Gallons actually evacuated: 60

Sampling Time: 14:31 DTW = 25.20 Sampling Date: 6-25-03

Sample I.D.: MW-1 Laboratory: Kiff SPL Other STL

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	0.9 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030625-DW-3	Site: 1784 150th Ave San Leandro
Sampler: Dave Walter	Date: 6-25-03
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 41.75	Depth to Water: 24.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method: Bailer; Disposable Bailer; Middleburg; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

11.2 (Gals.) X 3 = 33.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
13:57	81.2	6.3	1416	52	12	odor
13:59	74.7	6.5	1450	7	24	clear
14:02	74.2	6.5	1454	6	36	
					80% recharge = 27.93	

Did well dewater? Yes (No) Gallons actually evacuated: 36

Sampling Time: 14:07 DTW = 27.62 Sampling Date: 6-25-03

Sample I.D.: MW-3 Laboratory: Kiff SPL Other STL

Analyzed for: (TPH-G) BTEX MTBE TPH-D Other: VOC's by 8010

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.2	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL GAUGING DATA

Project # 070624-MM3 Date 6/24/07 Client Shell

Site 1784 150th Ave., San Leandro

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4	PARKED OVER (SMALL MACHINERY)						TOC	
MW-2	4	(*Paved) with stinger in well				18.30	44.68		
MW-3	4	PARKED OVER (SMALL MACHINERY)							D
MW-4	2					12.79	24.98		*
MW-5	2					13.91	24.82		
MW-6	2					13.71	19.47		*
MW-7	2	Paved over (Fresh Pavement)					recent		*
MW-8	2	Paved over (Fresh Pavement)							*
							* water		
							* Gated community		
							D additional analytes		

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product: (PARKED OVER)	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

_____(Gals.) X 3 = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	PARKED OVER, COULD NOT SAMPLE					
	(small bulldozer machinery covering well)					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 6/24/03 Sampling Time: Depth to Water:

Sample I.D.: MW-1 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, TBA, 1,2-DCA (by 8260)

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.68	Depth to Water (DTW): 18.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column 26.38 x 0.20) + DTW]: 23.58	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

4.2 (Gals.) X 3 = 12.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1715	71.8	6.9	1266	576	4.5	clear, strong odor
1716	70.5	6.7	1245	96	9.0	very clear, odor
1717	70.0	6.6	1355	55	13.5	

Did well dewater? Yes (No) Gallons actually evacuated: 13.5

Sampling Date: 6/24/03 Sampling Time: 1725 Depth to Water: 20.20

Sample I.D.: MW-2 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, TBA, 1,2-DCA (by 8260)

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD): UNABLE TO SAMPLE	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

____ (Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	UNABLE TO SAMPLE.					
	Parked over by small machinery (Bulldozer)					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 6/24/03 Sampling Time: Depth to Water:

Sample I.D.: MW-3 Laboratory: STL Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: TAME, DIA, 1,2-DCA (by 8260) + VOCs (grab)

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 24.98	Depth to Water (DTW): 12.79
Depth to Free Product:	Thickness of Free Product ~~(feet)~~:
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column 12.19 x 0.20) + DTW]:	15.23

Purge Method: Bailer, ~~Disposable Bailer~~, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ___

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ___

2.0 (Gals.) X	3	= 6.0 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1608	75.3	7.7	1099	>1000.	2.0	cloudy, brown
1611	72.0	6.8	1066	349	4.0	clearing
1614	70.0	7.2	1066	295	6.0	clearing

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 6/24/03 Sampling Time: 1620 Depth to Water: 12.91

Sample I.D.: MW-4 Laboratory: (STL) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, DIPE, 1,2-DCA (by 8260)

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1764 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.82	Depth to Water (DTW): 13.91
Depth to Free Product:	Thickness of Free Product (~~feet~~):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column (10.91) x 0.20) + DTW]: 16.09	

Purge Method: Bailer, Disposable Bailer, ~~Middleburg~~, ~~Electric Submersible~~, Waterra Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1644	74.1	7.5	1669	>1000	1.7	cloudy, coarse brown silty
1647	70.4	7.6	1686	>1000	3.4	cloudy, thinning out (water sample)
1649	69.2	7.6	1522	>1000	5.1	cloudy, clearing

Did well dewater? Yes (No) Gallons actually evacuated: 5.1

Sampling Date: 6/24/03 Sampling Time: 1655 Depth to Water: 15.17

Sample I.D.: MW-5 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, DIPE, TBA, 1,2-DCA (by 8260)

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.7	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.47	Depth to Water (DTW): 13.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column 5.76 x 0.20) + DTW]: 14.86	

Purge Method: Bailer / Disposable Bailer / (Middleburg) / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

.9 (Gals.) X	3	= 2.7 Gals.	
1 Case Volume	Specified Volumes	Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1430	86.7	8.7	503	>1000	.9	cloudy, brown
1431	82.5	8.4	439	>1000	1.8	
1433	79.7	8.3	434	822	2.7	

Did well dewater? Yes (No) Gallons actually evacuated: 2.7

Sampling Date: 6/24/03 Sampling Time: 1440 Depth to Water: 13.82

Sample I.D.: MW-6 Laboratory: (STL) Other____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, TBA, 1,2-DCA (by 8260)

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	5.8	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-7	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

_____(Gals.) X 3 = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	Unable to Sample:					
	MW-7 was paved over, yet is marked with					
	white paint (in the street)					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 6/24/03 Sampling Time: Depth to Water:

Sample I.D.: MW- Laboratory: STL Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, DIPE, ETBE, TBA, 1,2-DCA (by 8260)

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030624-MM3	Site: 1784 150th Ave, San Leandro
Sampler: MM	Date: 6/24/03
Well I.D.: MW-8	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD): Unable to	Depth to Water (DTW):
Depth to Free Product: Sample	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

____ (Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	Unable to Sample:					
	(MW-8 was paved over yet it is marked					
	with white paint (in the street).					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 6/24/03 Sampling Time: Depth to Water:

Sample I.D.: MW-8 Laboratory: STL Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: TAME, DIA, 1,2-DCA (by 8260)

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

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

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