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Shell Oil Products US

May 11, 2004

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

Subject: **Shell-branded Service Station**
5755 Broadway
Oakland, California

Dear Mr. Hwang:

Attached for your review and comment is a copy of the *First Quarter 2004 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

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

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

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

CAMBRIA

May 11, 2004

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

Re: **First Quarter 2004 Monitoring Report**
Shell-branded Service Station
5755 Broadway
Oakland, California
Incident #98995756
Cambria Project #246-0483-002

Dear Mr. Hwang:

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.

HISTORICAL REMEDIATION SUMMARY

The site location is shown on Figures 1 and 2. Mobile groundwater extraction (GWE) using a vacuum truck was conducted periodically at the site from April to November 2000. A single dual-phase vacuum extraction (DVE) event was performed at the site on February 7, 2001, and monthly mobile DVE was conducted at the site from May to November 2001. GWE and DVE have collectively extracted approximately 20,038 gallons of groundwater from wells S-2, H-1, and T-2, and removed 0.46 pounds of methyl tertiary-butyl ether (MTBE). Subsequent to notification of the Alameda County Health Care Services Agency in our November 7, 2001 *Third Quarter 2001 Monitoring Report*, Cambria suspended monthly DVE from wells S-2 and H-1 due to the low influent volume of groundwater from S-2 and the low influent MTBE concentrations from H-1.

Cambria Environmental Technology, Inc.

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

FIRST QUARTER 2004 ACTIVITIES

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

Temporary GWE System: As described in our second quarter 2003 monitoring report, plans for installing a fixed GWE system were put on hold due to the localized nature of the groundwater impact, and plans for installing a temporary GWE system pumping from well S-2 were initiated. Installation of this temporary system was completed, and operation began on October 28, 2003.

A pump is installed in well S-2, and extracted water is stored on site in a Baker tank. Water is periodically offhauled from the tank using a vacuum truck. Measurements of transported water are used to assess system production. Through April 14, 2004, a total of 11,084 gallons of water had been produced, equating to a flow rate of approximately 0.05 gallons per minute since system operation began. A total of 0.42 pounds of MTBE has been recovered. Table 1 summarizes mass removal data from the temporary GWE system.

ANTICIPATED SECOND QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample selected site wells, including the horizontal well (without purging), and tabulate the data. A groundwater monitoring report will be prepared.

Temporary GWE System: Cambria will continue to operate the temporary GWE system. Data from subsequent sampling events will be evaluated to determine whether installation of the permanent GWE system is warranted. Should future data indicate that installation of the fixed system is warranted, we will proceed with the permitting process for this system.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Diane Lundquist at (510) 420-3334 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Diane Lundquist, P.E.
Principal Engineer

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

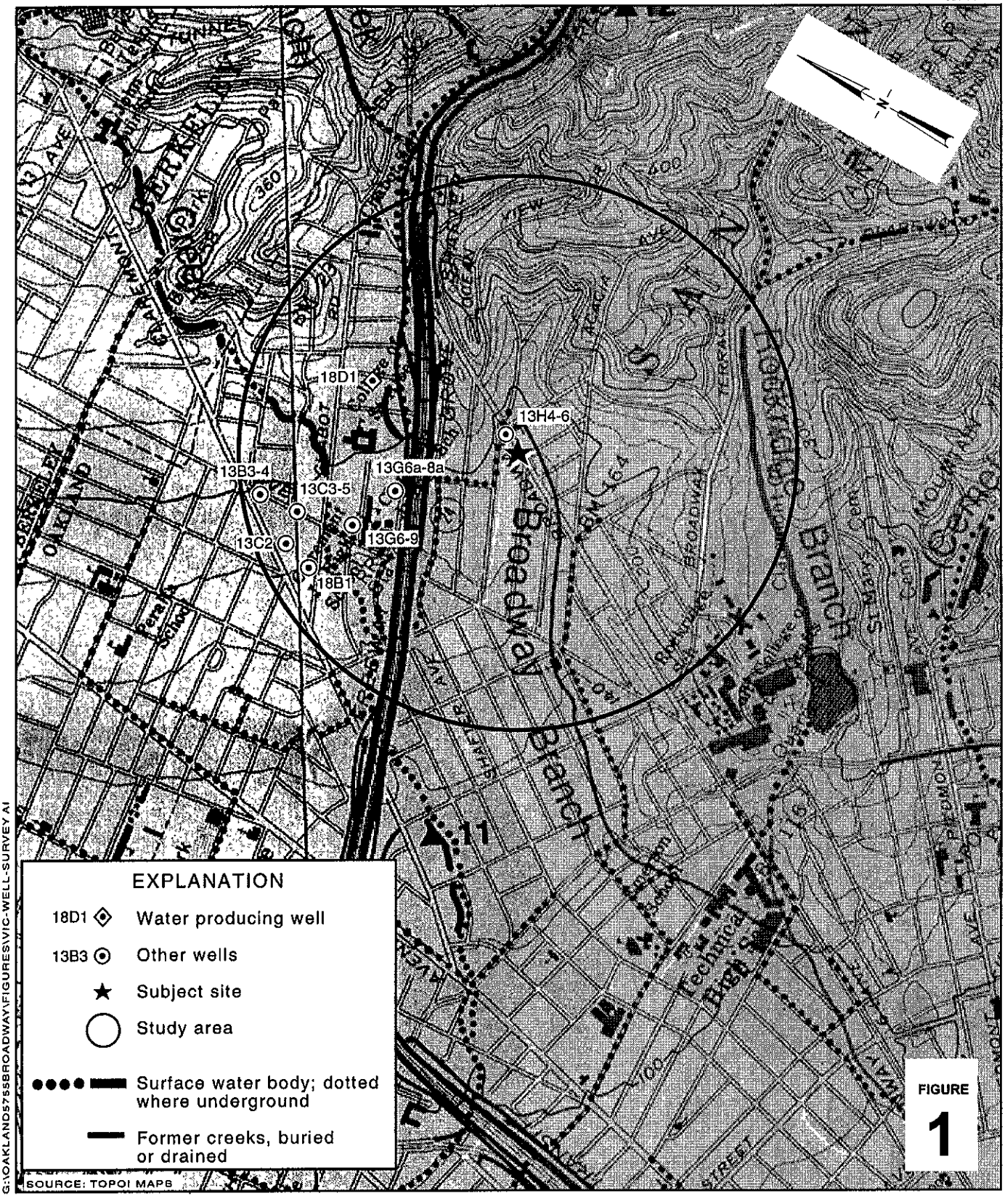
Table: 1 - Groundwater Extraction System Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Thrifty Oil Company, c/o Mr. Raymond Fredricksen, PO Box 2128, Santa Fe Springs, CA 90670

G \Oakland 5755 Broadway\QM\1q04\1q04qm doc

02/13/02



G:\OAKLAND\5755BROADWAY\FIGURES\VIC-WELL-SURVEY AI

FIGURE 1

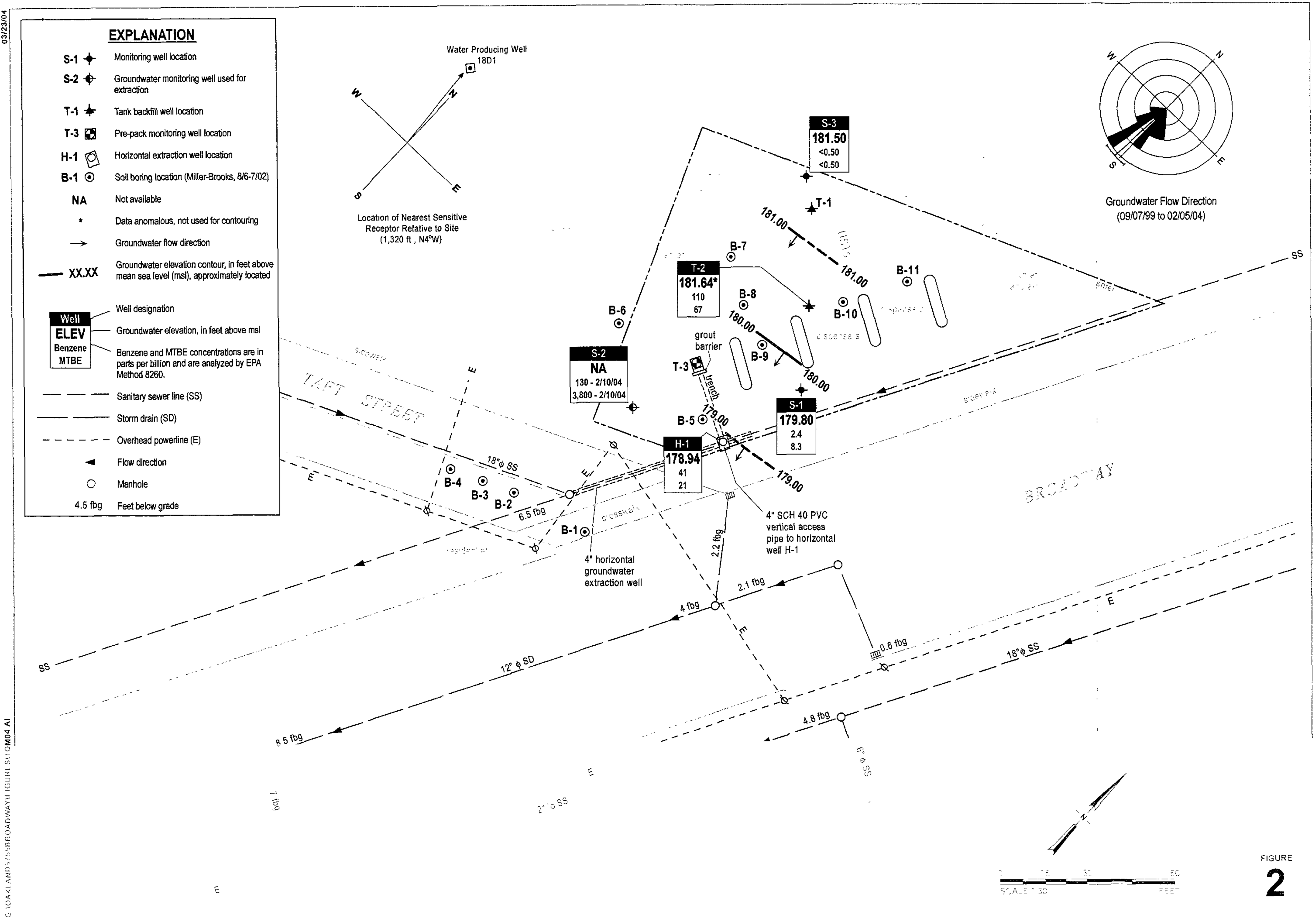
Shell-branded Service Station

5755 Broadway
Oakland, California
Incident #98995756

CAMBRIA

Vicinity / Well Survey Map

(1/2-Mile Radius)



EXPLANATION
S-1 Monitoring well location
S-2 Groundwater monitoring well used for extraction
T-1 Tank backfill well location
T-3 Pre-pack monitoring well location
H-1 Horizontal extraction well location
B-1 Soil boring location (Miller-Brooks, 8/6-7/02)
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
Well designation
Groundwater elevation, in feet above msl
Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
Well
ELEV
Benzene
MTBE
Sanitary sewer line (SS)
Storm drain (SD)
Overhead powerline (E)
Flow direction
Manhole
4.5 fbg Feet below grade
Water Producing Well
18D1
W
N
S
E
Location of Nearest Sensitive Receptor Relative to Site (1,320 ft , N4°W)
Groundwater Flow Direction (09/07/99 to 02/05/04)
S-3
181.50
<0.50
<0.50
T-1
181.00
181.00
B-7
B-11
T-2
181.64*
110
67
B-8
B-10
B-6
180.00
B-9
180.00
grout barrier
T-3
trench
S-2
NA
130 - 2/10/04
3,800 - 2/10/04
S-1
179.80
2.4
8.3
B-5
179.00
H-1
178.94
41
21
179.00
TAFT STREET
18"ϕ SS
B-4
B-3
B-2
6.5 fbg
B-1
4" horizontal groundwater extraction well
2.2 fbg
4" SCH 40 PVC vertical access pipe to horizontal well H-1
BROADWAY
2.1 fbg
4 fbg
12" ϕ SD
8.5 fbg
0.6 fbg
18"ϕ SS
4.8 fbg
6" ϕ SS
SS
SS
E

FIGURE
2

Groundwater Elevation Contour Map
February 5, 2004

CAMBRIA

Shell-branded Service Station
5755 Broadway
Oakland, California
Incident #98995756

03/23/04

Table 1. Groundwater Extraction System Mass Removal Data, Shell-branded Service Station, Incident #98995756, 5755 Broadway, California

Date Baker Tank Purged	Period Volume (gal)	Cumulative Volume Pumped (gal)	Estimated System Flow Rate (gpm)	Sample Date	TPHg Concentration (ppb)	TPHg Removed (pounds)	Cumulative TPHg Removed (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Cumulative Benzene Removed (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	Cumulative MTBE Removed (pounds)
10/28/03	0	0	0 00	08/27/03	31,000	0 000	0.000	630	0.000	0.000	15,000	0.000	0.000
11/25/03	2,701	2,701	0 07	11/25/03	8,400	0.189	0.189	<50	0.001	0 001	4,500	0 101	0.101
12/19/03	963	3,664	0 03	12/19/03	<5,000	0.020	0.209	<50	0.000	0.001	2,600	0 021	0.122
Not Purged	0	3,664	NM	01/08/04	<2,500	0.000	0.209	180	0 000	0.001	3,000	0 000	0.122
Not Purged	0	3,664	NM	02/03/04	<2,500	0.000	0.209	80	0.000	0 001	3,200	0.000	0 122
02/04/04	3,727	7,391	0 06	02/03/04	<2,500	0.039	0.248	80	0.002	0.003	3,200	0 100	0.222
Not Purged	0	7,391	NM	02/10/04	<2,500	0.000	0 248	130	0.000	0.003	3,800	0.000	0.222
Not Purged	0	7,391	NM	04/13/04	4,400	0 000	0 248	520	0 000	0.003	6,500	0.000	0.222
04/14/04	3,693	11,084	0.04	04/13/04	4,400	0 136	0.384	520	0.016	0.019	6,500	0 200	0.422
Total Gallons Extracted:	**11,084**				**Total Pounds Removed:**	**0.384**				**0.019**			**0.422**
Average Flow Rate:	**0.05**				**Total Gallons Removed:**	**0.063**				**0.003**			**0.068**

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

ppb = Parts per billion, equivalent to µg/L

Not Purged = The baker tank is emptied as needed when full Volume is measured based on periodic baker tank pumpouts. Tank is not pumped during every sampling event

NM = If baker tank is not emptied, no new period volume is calculated Therefore, period flow rate is not calculated for every sampling event

µg = Micrograms

L = Liter

gal = Gallon

g = Gram

TPHg and benzene analyzed by EPA Method 8015/8020 or equivalent.

MTBE analyzed by EPA Method 8260.

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

Mass removed (pounds) based on the formula. volume(gal) x concentration(µg/L) x ($g/10^6 \mu g$) x (pound/453.6g) x (3.785 L/gal)

Volume removed (gallons) based on the formula [mass(pounds) x 453 6(g/pound) x (gal/3 785L) x ($L/1000cm^3$)] / density(g/cm^3)

Density inputs TPHg = 0 73 g/cm^3, benzene = 0.88 g/cm^3, MTBE = 0.74 g/cm^3

Note· Groundwater is extracted from well S-2 using a submersible groundater pump, and contained in a 6,500 gallon baker tank. The baker tank is periodically emptied using vacuum trucks provided by Onyx Industrial The water is disposed of at Shell's Mar

Note: Concentrations based on most recent groundwater monitoring results for well S-2

BLAINE
TECH SERVICES, INC.

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www.blainetech.com

March 11, 2004

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

First Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
5755 Broadway
Oakland, CA

Monitoring performed on February 5, 2004

Groundwater Monitoring Report **040205-JP-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the 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: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)
S-1	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	3.88	96.12	NA
S-1	06/03/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	3.51	96.49	NA
S-1	08/30/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	100.00	4.24	95.76	NA
S-1	11/22/1991	<30	2.3	<0.46	0.3	<0.65	NA	NA	100.00	4.29	95.71	NA
S-1	03/13/1992	<30	<0.52	<0.3	<0.3	<0.3	NA	NA	100.00	2.87	97.13	NA
S-1	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.79	96.21	NA
S-1	08/19/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.43	95.57	NA
S-1	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	4.34	95.66	NA
S-1	02/10/1993	51	1.4	<0.5	<0.5	<0.5	NA	NA	100.00	4.20	95.80	NA
S-1 (D)	02/10/1993	<50	1.2	<0.5	<0.5	<0.5	NA	NA	100.00	4.20	95.80	NA
S-1	06/11/1993	<50	<0 5	<0.5	<0.5	<0.5	NA	NA	100.00	3.39	96.61	NA
S-1	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.69	96.31	NA
S-1	11/02/1993	70a	<0.5	<0.5	<0 5	<0.5	NA	NA	100.00	4.26	95.74	NA
S-1	12/16/1993	NA	NA	NA	NA	NA	NA	NA	100.00	2.73	97.27	NA
S-1	02/01/1994	60a	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.38	96.62	NA
S-1	05/04/1994	<50	1.1	<0.5	<0.5	<0.5	NA	NA	100.00	3.00	97.00	NA
S-1	08/18/1994	<50	0.6	<0.5	<0.5	<0.5	NA	NA	100.00	3.70	96.30	NA
S-1 (D)	08/18/1994	60a	0.5	<0.5	<0.5	<0.5	NA	NA	100.00	3.70	96.30	NA
S-1	11/09/1994	<50	4	<0.5	<0.5	<0.5	NA	NA	100.00	2.52	97.48	NA
S-1	02/22/1995	50	0.8	0.7	<0.5	1.3	NA	NA	100.00	4.08	95.92	NA
S-1	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	100.00	2.58	97.42	NA
S-1	08/30/1995	<50	1.7	<0.5	<0.5	<0.5	NA	NA	100.00	3.48	96.52	NA
S-1	11/28/1995	<50	<0 5	<0 5	<0.5	<0 5	NA	NA	100 00	3.99	96 01	NA
S-1	02/02/1996	<50	11	<0.5	0.9	<0.5	NA	NA	100.00	2.00	98.00	NA
S-1	03/09/1996	<50	<0.5	<0.5	<0.5	<0 5	NA	NA	100 00	3.38	99 62	NA
S-1	08/22/1996	<50	1.5	<0.5	<0.5	<0.5	130	NA	100.00	3.43	96.57	NA
S-1	11/07/1996	<50	<0.5	<0.5	<0.5	<0 5	57	NA	100.00	3.70	96 30	4.33

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)
S-1	02/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	NA	100.00	3.60	96.40	2
S-1	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	NA	100.00	3.47	96.53	7
S-1 (D)	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	47	NA	100.00	3.47	96.53	7
S-1	08/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	NA	100.00	3.01	96.99	3.1
S-1	11/03/1997	<50	<0.50	1.1	<0.50	1.3	190	NA	100.00	3.66	96.34	2
S-1	01/20/1998	110	7.9	2.8	4.4	13	53	NA	100.00	1.84	98.16	4.6
S-1 (D)	01/20/1998	130	9.2	6.9	5.2	15	93	NA	100.00	1.84	98.16	4.6
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	8.6	NA	100.00	2.43	97.57	2.2
S-1	09/07/1999	NA	NA	NA	NA	NA	NA	NA	100.00	2.84	97.16	NA
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	202	NA	100.00	3.10	96.90	2.1
S-1	04/26/2000	NA	NA	NA	NA	NA	NA	NA	100.00	2.91	97.09	NA
S-1	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	811	NA	100.00	3.21	96.79	1.8
S-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	100.00	3.18	96.82	NA
S-1	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	209	NA	100.00	1.34	98.66	2.2
S-1	06/07/2001	NA	NA	NA	NA	NA	NA	NA	100.00	1.27	98.73	NA
S-1	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	3.16	96.84	4.0
S-1	12/05/2001	NA	NA	NA	NA	NA	NA	2.6	100.00	1.90	98.10	NA
S-1	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	2.67	97.33	NA
S-1	06/04/2002	NA	NA	NA	NA	NA	NA	NA	100.00	1.87	98.13	NA
S-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	100.00	2.01	97.99	NA
S-1	11/07/2002	NA	NA	NA	NA	NA	NA	NA	181.89	3.01	178.88	NA
S-1	11/14/2002	NA	NA	NA	NA	NA	NA	NA	181.89	3.40	178.49	NA
S-1	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	27	181.89	2.12	179.77	NA
S-1	06/03/2003	NA	NA	NA	NA	NA	NA	NA	181.89	1.83	180.06	NA
S-1	08/27/2003	<50	0.50	1.5	<0.50	2.0	NA	130	181.89	3.32	178.57	NA
S-1	11/25/2003	NA	NA	NA	NA	NA	NA	NA	181.89	3.28	178.61	NA
S-1	**02/05/2004**	**270**	**2.4**	**6.4**	**5.8**	**19**	**NA**	**8.3**	**181.89**	**2.09**	**179.80**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
5755 Broadway
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)
S-2	01/25/1991	450	140	1.8	6.2	15	NA	NA	98.92	4.52	94.40	NA
S-2	06/03/1991	490	150	2.7	8.2	7	NA	NA	98.92	4.02	94.90	NA
S-2	08/30/1991	70	0.37	<0.3	<0.3	<0.3	NA	NA	98.92	4.70	94.22	NA
S-2	11/22/1991	1,600	110	9.3	29	150	NA	NA	98 92	4.72	94.20	NA
S-2	03/13/1992	1,300	210	5.7	34	79	NA	NA	98.92	3.47	95.45	NA
S-2	05/28/1992	100	28	<0.5	<0.5	<0.5	NA	NA	98.92	4.45	94.45	NA
S-2	08/19/1992	470	42	<0.5	8.3	4	NA	NA	98.92	4.84	94.08	NA
S-2	11/18/1992	490	43	39	17	29	NA	NA	98.92	4.73	94.19	NA
S-2	02/10/1993	19,000	710	760	80	370	NA	NA	98.92	4.83	94.09	NA
S-2	06/11/1993	33,000	3,100	1,600	370	1,100	NA	NA	98.92	3.74	95.18	NA
S-2	08/03/1993	18,000	1,400	130	81	130	NA	NA	98.92	4.23	94.69	NA
S-2 (D)	08/03/1993	19,000	1,400	140	86	150	NA	NA	98.92	4.23	94.69	NA
S-2	11/02/1993	12,000a	470	47	31	92	NA	NA	98.92	4.72	94.20	NA
S-2 (D)	11/02/1993	13,000a	530	47	35	96	NA	NA	98.92	4.72	94.20	NA
S-2	12/16/1993	NA	NA	NA	NA	NA	NA	NA	98.92	3 00	95.92	NA
S-2	02/01/1994	31,000a	430	46	50	130	NA	NA	98.92	3.48	95 44	NA
S-2 (D)	02/01/1994	31,000a	300	33	30	100	NA	NA	98.92	3 48	95.44	NA
S-2	05/04/1994	3,900	1,200	31	53	71	NA	NA	98.92	3.26	95.66	NA
S-2 (D)	05/04/1994	4,500	1,200	37	57	110	NA	NA	98.92	3.26	95.66	NA
S-2	08/18/1994	24,000	600	8.3	15	27	NA	NA	98.92	3.98	94.94	NA
S-2	11/09/1994	1,400a	240	9.3	13	20	NA	NA	98.92	3.10	95.82	NA
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	NA	NA	98.92	3.10	95.82	NA
S-2	02/22/1995	29,000	550	18	12	63	NA	NA	98.92	4.02	94 90	NA
S-2 (D)	02/22/1995	28,000	530	17	10	60	NA	NA	98.92	4.02	94.90	NA
S-2	05/02/1995	4,400	1,000	25	38	77	NA	NA	98 92	2 86	96.06	NA
S-2 (D)	05/02/1995	4,400	1,000	26	41	83	NA	NA	98 92	2.86	96.06	NA
S-2	08/30/1995	800	350	20	6.7	16	NA	NA	98.92	4.06	94.86	NA
S-2 (D)	08/30/1995	960	220	22	12	48	NA	NA	98.92	4 06	94.86	NA

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S-2	11/28/1995	2,000	230	220	50	230	NA	NA	98.92	4.48	94.44	NA
S-2 (D)	11/28/1995	2,100	240	230	51	230	NA	NA	98.92	4.48	94.44	NA
S-2	02/02/1996	18,000	540	18	12	22	NA	NA	98.92	1.99	96.93	NA
S-2 (D)	02/02/1996	11,000	600	18	13	28	NA	NA	98.92	1.99	96.93	NA
S-2	03/09/1996	3,800	1,500	27	30	58	NA	NA	98.92	3.27	95.65	NA
S-2 (D)	03/09/1996	3,500	1,300	24	21	53	NA	NA	98.92	3.27	95.65	NA
S-2	08/22/1996	<20,000	490	<200	<200	<200	43,000	NA	98.92	3.85	95.07	NA
S-2 (D)	08/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	98.92	3.85	95.07	NA
S-2	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	98.92	4.00	94.92	3.51
S-2 (D)	11/07/1996	<5,000	290	<50	<50	<50	32,000	NA	98.92	4.00	94.92	3.51
S-2	02/20/1997	<10,000	520	<100	<100	<100	28,000	NA	98.92	3.20	95.72	1
S-2 (D)	02/20/1997	<10,000	520	<100	<100	<100	35,000	NA	98.92	3.20	95.72	1
S-2	05/30/1997	150	15	11	3.5	15	11	NA	98.92	3.87	95.05	6
S-2	08/21/1997	1,600	220	<10	20	<10	18,000	NA	98.92	3.29	95.63	3.3
S-2 (D)	08/21/1997	1,500	180	<10	16	<10	21,000	NA	98.92	3.29	95.63	3.3
S-2	11/03/1997	1,000	94	<10	<10	<10	<50	NA	98.92	4.02	94.90	1.8
S-2	01/20/1998	590	110	8.3	18	23	7,800	NA	98.92	1.54	97.38	3.2
S-2	07/23/1998	2,600	840	<10	44	22	15,000	NA	98.92	2.89	96.03	NA
S-2	02/16/1999	680	140	6.1	10	18	19,000	NA	98.92	1.86	97.06	2.0
S-2	09/07/1999	<2,000	248	<20.0	<20.0	<20.0	22,800	NA	98.92	3.66	95.26	1.8
S-2	02/02/2000	103	0.825	<0.500	<0.500	<0.500	11,700	10,500	98.92	4.02	94.90	2.0
S-2	04/26/2000	4,040	799	<20.0	40.9	255	19,000	17,100b	98.92	2.63	96.29	2 3
S-2	07/25/2000	1,120	195	5.94	5.62	11.3	26,600	21,100	98.92	3.42	95.50	0.6
S-2b	11/15/2000	613	35.6	<5.00	<5.00	7.36	18,100	17,800	98.92	3.31	95.61	1.8
S-2	02/12/2001	9,010	1,430	<20.0	219	848	28,300	17,000	98.92	1.47	97.45	2.0
S-2	06/07/2001	31,000	1,000	<25	630	3,200	NA	17,000	98.92	3.43	95.49	10.4
S-2	08/31/2001	50,000	950	<20	1,500	6,000	NA	17,000	98.92	4.72	94.20	0.9
S-2	12/05/2001	49,000	590	7.2	1,400	4,900	NA	11,000	98.92	1.53	97.39	NA

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S-2	01/31/2002	37,000	860	<25	1,100	4,000	NA	14,000	98.92	2.13	96.79	NA
S-2	06/04/2002	150,000	800	<20	1,200	4,000	NA	9,200	98.92	2.24	96.68	NA
S-2	07/25/2002	37,000	350	<20	660	2,400	NA	10,000	98.92	2.03	96.89	NA
S-2	11/14/2002	25,000	510	<25	590	2,000	NA	10,000	180 79	3.17	177.62	NA
S-2	01/02/2003	NA	710	<25	560	2,074	NA	NA	180.79	2.15	178.64	NA
S-2	01/30/2003	21,000	670	<20	360	1,200	NA	9,300	180.79	2.09	178.70	NA
S-2	06/03/2003	42,000	800	<50	660	1,500	NA	9,600	180.79	3.08	177.71	NA
S-2	08/27/2003	31,000	630	<100	510	1,200	NA	15,000	180 79	2.55	178.24	NA
S-2	11/25/2003 d	8,400 a	<50	<50	<50	<100	NA	4,500	180.79	NA	NA	NA
S-2	**02/05/2004**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**180.79**	**NA**	**NA**	**NA**
S-2	**02/10/2004 d**	**<2,500**	**130**	**<25**	**<25**	**<50**	**NA**	**3,800**	**180.79**	**NA**	**NA**	**NA**
S-3	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101 67	3.84	97.83	NA
S-3	06/03/1991	<30	<0.3	0.3	0.3	0.3	NA	NA	101.67	3.25	98.42	NA
S-3	08/03/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	4.73	96.94	NA
S-3	11/22/1991	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	101.67	4.81	96.86	NA
S-3	03/13/1992	<30	<0.3	0.3	0.3	0.3	NA	NA	101.67	2.29	99.38	NA
S-3	05/28/1992	<50	<0.5	<0.5	<0.5	<0 5	NA	NA	101.67	3.62	98.05	NA
S-3	08/19/1992	<50	<0.5	<0.5	<0.5	0 5	NA	NA	101.67	4.66	97.01	NA
S-3	11/18/1992	<50	<0.5	<0.5	<0.5	<0 5	NA	NA	101.67	4.51	97.16	NA
S-3	02/10/1993	30	1.9	3.2	2.4	5.6	NA	NA	101.67	4.36	97.31	NA
S-3	06/11/1993	<50	<0.5	<0.5	<0.5	<0 5	NA	NA	101.67	2.91	98.76	NA
S-3 (D)	06/11/1993	<50	<0.5	<0.5	<0 5	<0.5	NA	NA	101.67	2.91	98 76	NA
S-3	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.70	97.97	NA
S-3	11/02/1993	Well inaccessible		NA	NA	NA	NA	NA	101 67	NA	NA	NA
S-3	12/16/1993	NA	NA	NA	NA	NA	NA	NA	101 67	2.12	99.55	NA
S-3	02/01/1994	<50	<0.5	<0.5	<0.5	<0 5	NA	NA	101.67	2.90	98.77	NA
S-3	05/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.54	99.13	NA

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S-3	08/18/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.51	98.16	NA
S-3	11/09/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.44	99.23	NA
S-3	02/22/1995	80	<0.5	0.5	<0.5	0.5	NA	NA	101.67	4.12	97.55	NA
S-3	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.83	98.84	NA
S-3	08/30/1995	<50	0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.16	98.51	NA
S-3	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.87	97.80	NA
S-3	02/02/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	2.24	99.43	NA
S-3	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	101.67	3.05	98.62	NA
S-3	08/22/1996	<50	0.8	<0.5	<0.5	<0.5	<2.5	NA	101.67	2.85	98.82	4.6
S-3	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	101.67	3.35	98.32	4.6
S-3	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.00	98.67	1
S-3	05/30/1997	140	14	10	3.3	14	8.6	NA	101.67	3.00	98.67	8
S-3	08/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	2.94	98.73	3.3
S-3	11/03/1997	<50	<0.50	<0.50	<0 50	<0.50	<2.5	NA	101.67	3.36	98.31	2.4
S-3 (D)	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	101.67	3.36	98.31	2.4
S-3	01/20/1998	Well inaccessible		NA	NA	NA	NA	NA	101.67	NA	NA	NA
S-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	101.67	2.69	98.98	NA
S-3	02/16/1999	<50	<0.50	0.92	0.59	3.9	3.7	NA	101.67	2.20	99.47	2 8
S-3	09/07/1999	NA	NA	NA	NA	NA	NA	NA	101.67	2.81	98.86	NA
S-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	101 67	3.97	97.70	2.7
S-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	101.67	2.96	98.71	NA
S-3	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	101.67	3.00	98.67	0.8
S-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	101.67	2.86	98.81	NA
S-3	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0 500	<2.50	NA	101.67	2.47	99.20	2 3
S-3	06/07/2001	NA	NA	NA	NA	NA	NA	NA	101.67	2 78	98.89	NA
S-3	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	3.94	97.73	0.5
S-3	12/05/2001	NA	NA	NA	NA	NA	NA	NA	101.67	2.05	99.62	NA
S-3	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	2.29	99.38	NA

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S-3	06/04/2002	NA	NA	NA	NA	NA	NA	NA	101.67	2.56	99.11	NA
S-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	101.67	2.70	98.97	NA
S-3	11/14/2002	NA	NA	NA	NA	NA	NA	NA	183.54	3.43	180.11	NA
S-3	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	183.54	2.16	181.38	NA
S-3	01/30/2003	NA	NA	NA	NA	NA	NA	NA	183.54	2.65	180.89	NA
S-3	08/27/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	0.55	183.54	2.75	180.79	NA
S-3	11/25/2003	NA	NA	NA	NA	NA	NA	NA	183.54	2.85	180.69	NA
S-3	**02/05/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**183.54**	**2.04**	**181.50**	**NA**
H-1	12/05/2001	150	<0.50	8.3	1.6	16	NA	52	NA	1.43	NA	NA
H-1	01/31/2002	3,200	12	<0.50	5.7	3.7	NA	650	NA	2.34	NA	NA
H-1	06/04/2002	280,000	<10	150	62	9,500	NA	<100	NA	2.56	NA	NA
H-1	07/25/2002	8,200	2.2	46	5.3	99	NA	<10	NA	2.83	NA	NA
H-1	11/14/2002	1,700	2.1	2.6	1.5	14	NA	380	180.63	3.74	176.89	NA
H-1	01/02/2003	NA	1.1	<0 50	<0.50	3.6	NA	NA	180.63	1 45	179.18	NA
H-1	01/30/2003	630	0.99	2.0	1.6	12	NA	21	180 63	2.10	178.53	NA
H-1	06/03/2003	55	<0.50	1.3	<0.50	2 4	NA	2.6	180 63	3.38	177.25	NA
H-1	08/27/2003	<50	0.55	<0.50	<0.50	1.2	NA	2 8	180.63	4.10	176.53	NA
H-1	11/25/2003	77 a	9.7	<0.50	<0.50	<1.0	NA	21	180.63	3.72	176.91	NA
H-1	**02/05/2004**	**380**	**41**	**1.2**	**5.1**	**8.0**	**NA**	**21**	**180.63**	**1.69**	**178.94**	**NA**
T-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.65	NA	NA
T-1	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.69	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	3.09	NA	NA
T-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.61	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	2.32	NA	NA
T-1	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	1.95	NA	NA
T-1	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	2.48	NA	NA

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T-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	2.66	NA	2.5
T-1	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.56	NA	NA
T-1	07/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.60	NA	NA
T-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.47	NA	NA
T-1	02/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.20	NA	NA
T-1	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	2.36	NA	NA
T-1	08/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.45	NA	NA
T-1	01/09/2002 c	NA	NA	NA	NA	NA	NA	NA	183.08	NA	NA	NA
T-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.81	NA	NA
T-2	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.89	NA	NA
T-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.25	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.55	NA	NA
T-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	1.21	NA	NA
T-2	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	1.08	NA	NA
T-2	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	0.72	NA	NA
T-2	02/02/2000	1,540	53.4	20.8	11.4	21.8	1,330	NA	NA	0.98	NA	3.0
T-2	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.02	NA	NA
T-2	07/25/2000	815	17.6	10.8	1.63	3.47	133	NA	NA	1.80	NA	0.8
T-2	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.68	NA	NA
T-2	02/12/2001	310	7.48	7.76	0.693	2.28	301	NA	NA	1.45	NA	1.6
T-2	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.57	NA	NA
T-2	08/31/2001	720	30	0.67	<0.50	2.3	NA	540	NA	2.69	NA	0.8
T-2	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	0.58	NA	NA
T-2	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	1.32	NA	NA
T-2	02/04/2002	1,000	41	30	4.6	20	NA	1,200	NA	1.46	NA	NA
T-2	06/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	1.50	NA	NA
T-2	07/25/2002	660	11	0.59	<0.50	2.6	NA	97	NA	1.53	NA	NA

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T-2	11/14/2002	NA	NA	NA	NA	NA	NA	NA	182.30	2.39	179.91	NA
T-2	01/30/2003	560	11	<0.50	<0.50	0.53	NA	160	182.30	1.01	181.29	NA
T-2	06/03/2003	NA	NA	NA	NA	NA	NA	NA	182.30	1.55	180.75	NA
T-2	08/27/2003	180 a	1.6	<0.50	<0.50	<1.0	NA	10	182.30	1.60	180.70	NA
T-2	11/25/2003	NA	NA	NA	NA	NA	NA	NA	182.30	1.64	180.66	NA
T-2	**02/05/2004**	**940**	**110**	**10**	**2.4**	**14**	**NA**	**67**	**182.30**	**0.66**	**181.64**	**NA**
T-3	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	2.31	NA	NA
T-3	08/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	1.57	NA	NA
T-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	3.50	NA	NA
T-3	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.76	NA	NA
T-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	0.82	NA	NA
T-3	02/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	0.55	NA	NA
T-3	09/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	2.89	NA	NA
T-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	3.02	NA	2.9
T-3	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	2.81	NA	NA
T-3	07/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	3.00	NA	NA
T-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	1.70	NA	NA
T-3	02/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	2.11	NA	NA
T-3	06/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	1.68	NA	NA
T-3	08/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.14	NA	NA
T-3	01/09/2002 c	NA	NA	NA	NA	NA	NA	NA	180.95	NA	NA	NA

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Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 7, 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 indicated an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.
b = This sample analyzed outside of EPA recommended hold time.
c = Survey date only.
d = Sampled by client; Cambria Environmental.
Site surveyed January 9, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

SEVERN TRENT STL

Submission#: 2004-02-0326

Cambria Environmental Emeryville

February 24, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

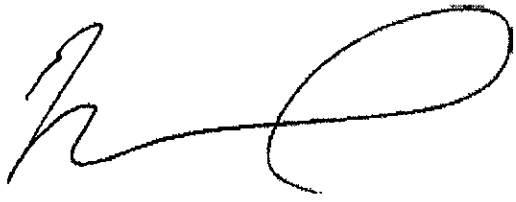
Project#: 245-0483-003
Project: 98995756
Site: 5755 Broadway, Oakland

Dear Ms. Vasko:

Attached is our report for your samples received on 02/10/2004 17:00
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 03/26/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2004-02-0326

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

Cambria Environmental Emeryville
Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0483-003
98995756

Received: 02/10/2004 17:00

Site: 5755 Broadway, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-2	02/10/2004 08:45	Water	1

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

Cambria Environmental Emeryville
Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0483-003
98995756

Received: 02/10/2004 17:00

Site: 5755 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-2	Lab ID:	2004-02-0326 - 1
Sampled:	02/10/2004 08:45	Extracted:	2/18/2004 22:13
Matrix:	Water	QC Batch#:	2004/02/18-2B.66

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	02/18/2004 22:13	
Benzene	130	25	ug/L	50.00	02/18/2004 22:13	
Toluene	ND	25	ug/L	50.00	02/18/2004 22:13	
Ethylbenzene	ND	25	ug/L	50.00	02/18/2004 22:13	
Total xylenes	ND	50	ug/L	50.00	02/18/2004 22:13	
Methyl tert-butyl ether (MTBE)	3800	250	ug/L	50.00	02/18/2004 22:13	
Surrogate(s)						
1,2-Dichloroethane-d4	116.0	76-130	%	50.00	02/18/2004 22:13	
Toluene-d8	99.5	78-115	%	50.00	02/18/2004 22:13	

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

Cambria Environmental Emeryville
Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0483-003
98995756

Received: 02/10/2004 17:00

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/02/18-2B.66**

MB: 2004/02/18-2B.66-034 — Date Extracted: 02/18/2004 20:34

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/18/2004 20:34	
Benzene	ND	0.5	ug/L	02/18/2004 20:34	
Toluene	ND	0.5	ug/L	02/18/2004 20:34	
Ethylbenzene	ND	0.5	ug/L	02/18/2004 20:34	
Total xylenes	ND	1.0	ug/L	02/18/2004 20:34	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	02/18/2004 20:34	
Surrogates(s)					
1,2-Dichloroethane-d4	105.4	76-130	%	02/18/2004 20:34	
Toluene-d8	102.4	78-115	%	02/18/2004 20:34	

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

Cambria Environmental Emeryville
Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0483-003
98995756

Received: 02/10/2004 17:00

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/02/18-2B.66**

LCS 2004/02/18-2B.66-046 Extracted: 02/18/2004 Analyzed: 02/18/2004 19:46

LCSD 2004/02/18-2B.66-010 Extracted: 02/18/2004 Analyzed: 02/18/2004 20:10

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	28.6	28.1	25	114.4	112.4	1.8	69-129	20		
Toluene	27.0	26.4	25	108.0	105.6	2.2	70-130	20		
Methyl tert-butyl ether (MTBE)	26.8	25.2	25	107.2	100.8	6.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	515	482	500	103.0	96.4		76-130			
Toluene-d8	520	521	500	104.0	104.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0483-003
98995756

Received: 02/10/2004 17:00

Site: 5755 Broadway, Oakland

Legend and Notes

Analysis Flag

o

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

2004-02-0326

San Francisco

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

SHELL Chain Of Custody Record 82834

Shell Project Manager to be Invoiced:

- ☑ SCIENCE & ENGINEERING
- ☐ TECHNICAL SERVICES
- ☐ CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 6

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE: 2-10-04

PAGE: 1 of 1

SAMPLING COMPANY	Cambria Environmental Technology, Inc.
LOG CODE	CETS
SITE ADDRESS (Street and City)	5755 Broadway, Oakland
GLOBAL ID NO.	T0600101270
ADDRESS	5900 Hollis Street, Suite A, Emeryville, CA 94608
EDF DELIVERABLE TO (Responsible Party or Designee)	ANI KREML
PHONE NO.	(510) 420-3335
E-MAIL	SHELLOAKLAND.EDF @CAMBRIA-ENV.COM
CONSULTANT PROJECT NO.	245-0483-003
PROJECT CONTACT (Hardcopy or PDF Report to)	Cynthia Vasko
SAMPLER NAME(S) (Print)	DAN LESCURE
TELEPHONE	510-420-3344
FAX	510-420-9170
E-MAIL	cvasko@cambria-env.com

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ____

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

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

cc: LGEARHART@BLAINETECH.COM
AKREML@CAMBRIA-ENV.COM

LAB USE ONLY

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (5.0 ppb DL)	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐ Total ☐ STLC ☐ TCLP	LUFT5 ☐ Total ☐ STLC ☐ TCLP	CAM17 ☐ Total ☐ STLC ☐ TCLP	Test for Disposal						FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	S-2	2/10	8:45	AQ	4	X		X	X																	VOAs w/HCl

TEMPERATURE ON RECEIPT C°: 5.0

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Dan Lescure	SECURED LOCATION	2/10/04	10:00 AM
[signature]	[signature]	2/10/04	12:48
[signature]	[signature]	2/10/04	17:20

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
G:\Oakland 5755 Broadway\Remediation\O&M\[GWE COC Nov03.xls]INF Monthly

10/16/00 Revision
08/03 Revision

SEVERN TRENT STL

Submission#: 2004-02-0219

Blaine Tech Services, Inc.

February 18, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 040205-JP1
Project: 98995756
Site: 5755 Broadway, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 02/05/2004 17:53
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 03/21/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2004-02-0219

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: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	02/05/2004 09:15	Water	1
S-3	02/05/2004 09:05	Water	2
H-1	02/05/2004 08:45	Water	3
T-2	02/05/2004 09:20	Water	4

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

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-1	Lab ID:	2004-02-0219 - 1
Sampled:	02/05/2004 09:15	Extracted:	2/13/2004 20:24
Matrix:	Water	QC Batch#:	2004/02/13-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	270	50	ug/L	1.00	02/13/2004 20:24	
Benzene	2.4	0.50	ug/L	1.00	02/13/2004 20:24	
Toluene	6.4	0.50	ug/L	1.00	02/13/2004 20:24	
Ethylbenzene	5.8	0.50	ug/L	1.00	02/13/2004 20:24	
Total xylenes	19	1.0	ug/L	1.00	02/13/2004 20:24	
Methyl tert-butyl ether (MTBE)	8.3	0.50	ug/L	1.00	02/13/2004 20:24	
Surrogate(s)						
1,2-Dichloroethane-d4	108.4	76-130	%	1.00	02/13/2004 20:24	
Toluene-d8	103.1	78-115	%	1.00	02/13/2004 20:24	

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

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**S-3**	Lab ID:	2004-02-0219 - 2
Sampled:	02/05/2004 09:05	Extracted:	2/13/2004 20:48
Matrix:	Water	QC Batch#:	2004/02/13-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/13/2004 20:48	
Benzene	ND	0.50	ug/L	1.00	02/13/2004 20:48	
Toluene	ND	0.50	ug/L	1.00	02/13/2004 20:48	
Ethylbenzene	ND	0.50	ug/L	1.00	02/13/2004 20:48	
Total xylenes	ND	1.0	ug/L	1.00	02/13/2004 20:48	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/13/2004 20:48	
Surrogate(s)						
1,2-Dichloroethane-d4	110.4	76-130	%	1.00	02/13/2004 20:48	
Toluene-d8	98.7	78-115	%	1.00	02/13/2004 20:48	

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: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**H-1**	Lab ID:	2004-02-0219 - 3
Sampled:	02/05/2004 08:45	Extracted:	2/13/2004 21:12
Matrix:	Water	QC Batch#:	2004/02/13-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380	50	ug/L	1.00	02/13/2004 21:12	
Benzene	41	0.50	ug/L	1.00	02/13/2004 21:12	
Toluene	1.2	0.50	ug/L	1.00	02/13/2004 21:12	
Ethylbenzene	5.1	0.50	ug/L	1.00	02/13/2004 21:12	
Total xylenes	8.0	1.0	ug/L	1.00	02/13/2004 21:12	
Methyl tert-butyl ether (MTBE)	21	0.50	ug/L	1.00	02/13/2004 21:12	
Surrogate(s)						
1,2-Dichloroethane-d4	103.4	76-130	%	1.00	02/13/2004 21:12	
Toluene-d8	104.9	78-115	%	1.00	02/13/2004 21:12	

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: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	T-2	Lab ID:	2004-02-0219-4
Sampled:	02/05/2004 09:20	Extracted:	2/14/2004 14:57
Matrix:	Water	QC Batch#:	2004/02/14-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	940	50	ug/L	1.00	02/14/2004 14:57	
Benzene	110	0.50	ug/L	1.00	02/14/2004 14:57	
Toluene	10	0.50	ug/L	1.00	02/14/2004 14:57	
Ethylbenzene	2.4	0.50	ug/L	1.00	02/14/2004 14:57	
Total xylenes	14	1.0	ug/L	1.00	02/14/2004 14:57	
Methyl tert-butyl ether (MTBE)	67	0.50	ug/L	1.00	02/14/2004 14:57	
Surrogate(s)						
1,2-Dichloroethane-d4	105.8	76-130	%	1.00	02/14/2004 14:57	
Toluene-d8	112.2	78-115	%	1.00	02/14/2004 14:57	

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: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/02/13-2A.66**

MB: 2004/02/13-2A.66-051 — Date Extracted: 02/13/2004 18:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/13/2004 18:51	
Benzene	ND	0.5	ug/L	02/13/2004 18:51	
Toluene	ND	0.5	ug/L	02/13/2004 18:51	
Ethylbenzene	ND	0.5	ug/L	02/13/2004 18:51	
Total xylenes	ND	1.0	ug/L	02/13/2004 18:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/13/2004 18:51	
Surrogates(s)					
1,2-Dichloroethane-d4	110.8	76-130	%	02/13/2004 18:51	
Toluene-d8	105.2	78-115	%	02/13/2004 18:51	

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

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2004/02/14-1B.65-026

Water

Test(s): 8260B
QC Batch # 2004/02/14-1B.65
Date Extracted: 02/14/2004 09:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/14/2004 09:26	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/14/2004 09:26	
Benzene	ND	0.5	ug/L	02/14/2004 09:26	
Toluene	ND	0.5	ug/L	02/14/2004 09:26	
Ethylbenzene	ND	0.5	ug/L	02/14/2004 09:26	
Total xylenes	ND	1.0	ug/L	02/14/2004 09:26	
Surrogates(s)					
1,2-Dichloroethane-d4	109.2	76-130	%	02/14/2004 09:26	
Toluene-d8	102.2	78-115	%	02/14/2004 09:26	

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: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Laboratory Control Spike — **Water** — **QC Batch # 2004/02/13-2A.66**

LCS 2004/02/13-2A.66-002 — Extracted: 02/13/2004 — Analyzed: 02/13/2004 18:02

LCSD 2004/02/13-2A.66-026 — Extracted: 02/13/2004 — Analyzed: 02/13/2004 18:26

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	27.6	27.7	25	110.4	110.8	0.4	69-129	20		
Toluene	26.5	27.2	25	106.0	108.8	2.6	70-130	20		
Methyl tert-butyl ether (MTBE)	25.9	23.8	25	103.6	95.2	8.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	534	512	500	106.8	102.4		76-130			
Toluene-d8	536	570	500	107.2	114.0		78-115			

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

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040205-JP1
98995756

Received: 02/05/2004 17:53

Site: 5755 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/02/14-1B.65**

LCS 2004/02/14-1B.65-004 Extracted: 02/14/2004 Analyzed: 02/14/2004 08:41
LCSD 2004/02/14-1B.65-003 Extracted: 02/14/2004 Analyzed: 02/14/2004 09:03

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.7	23.4	25	98.8	93.6	5.4	65-165	20		
Benzene	26.8	23.9	25	107.2	95.6	11.4	69-129	20		
Toluene	27.5	23.3	25	110.0	93.2	16.5	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	508	500	84.8	101.6		76-130			
Toluene-d8	499	484	500	99.8	96.8		78-115			

LAB: STL

Lab Identification (if necessary):

Address:

City, State, Zip:

SHELL Chain Of Custody Record

82671

Shell Project Manager to be Invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-02-0219

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 6

SAP or CRMT NUMBER (TS/CRMT):

DATE: 2/5/04

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 5755 Broadway, Oakland
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		GLOBAL ID NO.: T0600101270
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml
		PHONE NO.: (510) 420-3335
		E-MAIL: ShellOaklandEDF@cambria-env.com
		CONSULTANT PROJECT NO.: 040205-DP1 BTS #
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com
		SAMPLER NAME(S) (Print): Mathew Pyral
		LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

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

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

REQUESTED ANALYSIS

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	1,2 DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	S-1	2/5/04	0915	W	3	X	X		X							
	S-3	↓	0905	↓	↓	X	X		X							
	H-1	↓	0845	↓	↓	X	X		X							
	T-2	↓	0920	↓	↓	X	X		X							

TEMPERATURE ON RECEIPT C°: 5.0

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	2/5/04	1620
[signature] 1753 2/5/04			
	Nouna B.	2/5/04	1753

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

10/16/00 Revision

WELL GAUGING DATA

Project # 040205-JP1 Date 1/JP 2/5/04 Client 98995756

Site 5755 Broadway, Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
S-1	3					2.09	11.68	TOC	
S-2	4	Unable to Gauge - Temporary Ext. Syst blocks well				—	9.63		
S-3	4					2.04	9.71		
* H-1	4					1.69	12.04		Grab Sample
T-2	12	No free product detected				0.66	13.02	▽	Free product
* - Gauged w/ stinger in well									

SHELL WELL MONITORING DATA SHEET

BTS #: 040205-JP1	Site: 98995756
Sampler: M. Ryrch	Date: 2/5/04
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 11.68	Depth to Water (DTW): 2.09
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]: 4.00	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (3" Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

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

3.5 (Gals.) X 3 = 10.5 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
0825	56.2	7.2	728	32	3.5	clear
0827	59.7	7.3	599	>200	3.5 7.0 JP	Cloudy, tan
0829	60.6	7.3	574	>200	10.5	11

Did well dewater? Yes (No) Gallons actually evacuated: 10.5

Sampling Date: 2/5/04 Sampling Time: 0915 Depth to Water: 3.74

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 040205-JP1	Site: 98995756
Sampler: M. Pyrch	Date: 2/5/04
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 9.63	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 / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: (Bailer) VP / 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 (Ext.)				
			- Access to Sampling Port was very			
		Unstable - unable to access port on top				
			of baker tank			

Did well dewater? Yes No — Gallons actually evacuated:

Sampling Date: 2/5/04 — Sampling Time: — Depth to Water:

Sample I.D.: — Laboratory: (STL) Other ____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 040205-JP1	Site: 98995756
Sampler: M. Ryrch	Date: 2/5/04
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 9.71	Depth to Water (DTW): 2.04
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]: 3.57	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

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

4.9 (Gals.) X 3 = 14.7 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 (uS))	Turbidity (NTUs)	Gals. Removed	Observations
0814	49.1	6.6	1477	47	5	clear
0817	49.1	6.7	1475	33	10	"
0819	57.6	7.0	780 uS	28	15	"

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Date: 2/5/04 Sampling Time: 0905 Depth to Water: 3.49

Sample I.D.: S-3 Laboratory: (STL) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 040205-JP1	Site: 98995756
Sampler: M. Pyrch	Date: 2/5/04
Well I.D.: H-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 12.04	Depth to Water (DTW): 1.69
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, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ____~~

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

NO Purge / JP

____ (Gals.) X ____ = ____ 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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0845	59.3	7.0	487	69	—	cloudy, bio particles

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

Sampling Date: 2/5/04 — Sampling Time: 0845 — Depth to Water: 1.69

Sample I.D.: H-1 — Laboratory: (STL) Other ____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 040205-JP1	Site: 98995756
Sampler: M. Pyrch	Date: 2/5/04
Well I.D.: T-2	Well Diameter: 2 3 4 6 8 12
Total Well Depth (TD):	Depth to Water (DTW): 0.66
Depth to Free Product: 13.02	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]: 3.13	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

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

72.4 (Gals.) X 3 = 217.2 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

124-5.86

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0848	57.4	7.1	702	16	72.5	gas odor, clear
JP 0902	59.8	7.1	709	16	145	"
0916	59.8	7.2	740	14	217.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 217.5

Sampling Date: 2/5/04 Sampling Time: 0920 Depth to Water: 0.71

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

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

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

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

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