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Transmitted Via UPS Next Day Air

May 3, 2005

Mr. Amir K. Gholami, REHS
Hazardous Materials Specialist
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Groundwater Monitoring & Sampling Report
UPS – Oakland Hub
8400 Pardee Drive, Oakland, California
State ID # 583

Dear Mr. Gholami:

On behalf of United Parcel Service (UPS), Blasland, Bouck & Lee, Inc. (BBL) is transmitting herewith the First Semi-Annual 2005 Monitoring & Sampling Report for the above-referenced facility. This report describes groundwater monitoring efforts performed at the site on March 23, 2005. The groundwater monitoring events were conducted in accordance with the Work Plan approval letter, dated August 8, 1997, from the Alameda County Health Care Services Agency. Monthly Free Product Gauging and Recovery Data for 2005 are also included.

If you have any questions regarding this report, please do not hesitate to contact Mr. Hugh Devery at (770) 428-9009 extension 11.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Hugh B. Devery
Senior Geologist

HBD/hbd

cc: Linda Lyons, UPS, w/ attachments
File

975 Cobb Place Boulevard • Suite 311 • Kennesaw, Georgia 30144-4817
Tel (770) 428-9009 • Fax (770) 428-4004 • www.bbl-inc.com • Offices Nationwide

Year 2005 First Semi-Annual Monitoring & Sampling Report

UPS – Oakland Hub
8400 Pardee Drive
Oakland, California

State ID # 583

United Parcel Service
55 Glenlake Parkway, NE
Atlanta, Georgia 30328

April 2005

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TECHNICAL REPORT

Year 2005 First Semi-Annual Monitoring & Sampling Report

UPS – Oakland Hub
8400 Pardee Drive
Oakland, California

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United Parcel Service
55 Glenlake Parkway, NE
Atlanta, Georgia 30328

April 2005

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1 Groundwater Monitoring & Sampling

1.1. Introduction

United Parcel Service (UPS) retained Blasland, Bouck & Lee, Inc. (BBL) to perform groundwater monitoring at the UPS-Oakland Center located at 8400 Pardee Drive, Oakland, California (**Figures 1** and **2**). This report describes results of groundwater monitoring performed on March 23, 2005. Groundwater monitoring was conducted in accordance with the Alameda County Health Care Services (ACHCS)–approved work plan (BBL, August 1997). Monthly Free Product Gauging and Recovery are also included (**Table 1**).

Groundwater samples were collected from groundwater monitoring wells MW-1, MW-2, MW-3 and OW-1 on March 23, 2005. The field activities were conducted in accordance with the groundwater monitoring procedures described in **Appendix A**. Water levels were measured prior to purging the wells. Purge water was monitored to document stabilization of pH, temperature, and conductivity parameters (**Appendix B**). Disposal of purged water is described in Section 1.4.

1.2. Water Levels

Depths to water in the four monitoring wells were measured on March 23, 2005. Static fluid levels in the wells were measured to an accuracy of 0.01-foot using an electronic interface probe that is capable of detecting water and phase-separated hydrocarbons (PSH). PSH was detected in wells MW-2 and OW-1 at apparent thicknesses of 0.02 feet and each. Groundwater elevations in monitoring wells MW-1 and MW-3 in March 2005 were approximately 0.09 feet higher on average than water levels measured in September 2004. The groundwater elevation in MW-2 decreased 0.01 feet between September 2004 and March 2005. A generalized groundwater contour map prepared using the March 2005 groundwater elevation data is shown on **Figure 3.** Groundwater flow is to the southwest, which agrees with historical direction.

1.3. Water Quality

Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3 and OW-1 on March 23, 2005. The thin amount of PSH was bailed off prior to sampling wells MW-2 (0.02 feet) and OW-1 (0.02 feet). The samples were analyzed for total petroleum hydrocarbons as diesel (TPH-d) by United States Environmental Protection Agency (USEPA) Method 8015M and for TPH-g (gasoline), benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (BTEX/MTBE) by USEPA Method 8260B. Analyses were conducted by STL in Pleasanton, California, certified for environmental analyses by the California Department of Health Services (certificate number: 2496). Summaries of the groundwater analytical data are presented in **Table 2** and on **Figure 4**. The laboratory analytical results and chain-of-custody documentation are attached as **Appendix C**.

Benzene was not detected above the primary drinking water maximum contaminant levels (MCL) of Title 22 of the California Code of Regulations in the groundwater sample collected from any wells. MTBE was not detected in groundwater samples collected from any wells. No additional BTEX/MTBE analytes were detected above the MCL in any of the remaining groundwater samples collected during the March 2005 monitoring events. TPH-g was detected in monitoring wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 0.55 milligrams per liter (mg/L), MW-2 with a concentration of 2.3 mg/L, MW-3 with a concentration of 0.33 mg/L and OW-1 with a concentration of 0.22 mg/L. The samples collected from each well contained a laboratory validation flag stating, "Quantity of unknown hydrocarbon(s) in sample based on gasoline". TPH-d was detected in wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 15 mg/L, MW-2 with a concentration of 15 mg/L, MW-3 with a concentration of 14 mg/L and OW-1 with a

concentration of 16 mg/L. The laboratory reported a data flag stating, "Quantity of unknown hydrocarbons(s) in sample based on diesel". There is currently no established MCL for TPH-g or TPH-d.

1.4. Purge Water Handling

The water generated from groundwater sampling activities was contained in 55-gallon drums and stored at the UPS center pending proper disposal offsite.

1.5. Summary

1. Groundwater samples were collected on March 23, 2005 and sampled for BTEX, MTBE, TPH-g and TPH-d.

2. Measured depths to water ranged from 2.21 feet below top of casing (btoc) in MW-1 to 4.96 feet btoc in MW-2 (**Table 1**). PSH was detected in monitoring wells MW-2 and OW-1, both at apparent thicknesses of 0.02 feet. Groundwater elevations in monitoring wells MW-1 and MW-3 in March 2005 were approximately 0.09 feet higher on average than water levels measured in September 2004. The groundwater elevation in MW-2 decreased 0.01 feet between September 2004 and March 2005. A generalized groundwater contour map prepared using the March 2005 groundwater elevation data is shown on **Figure 3**. Groundwater flow is to the southwest, which agrees with historical direction.

3. Benzene was not detected above the primary drinking water MCL of Title 22 of the California Code of Regulations in any groundwater samples collected from the site. MTBE was not reported in any groundwater samples collected at the site. No additional BTEX/MTBE analytes were detected above the MCL in any of the remaining groundwater samples collected during the March 2005 monitoring events.

4. TPH-g was detected in monitoring wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 0.55 mg/L, MW-2 with a concentration of 2.3 mg/L, MW-3 with a concentration of 0.33 mg/L and OW-1 with a concentration of 0.22 mg/L. The samples collected from each well contained a laboratory flag stating, "Quantity of unknown hydrocarbon(s) in sample based on gasoline". TPH-d was detected in wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 15 mg/L, MW-2 with a concentration of 15 mg/L, MW-3 with a concentration of 14 mg/L and OW-1 with a concentration of 16 mg/L. The laboratory reported a data flag stating, "Quantity of unknown hydrocarbon(s) in sample based on diesel".

References:

Blasland, Bouck & Lee, Inc., 1997. Work Plan for UPS Distribution Center, 8400 Pardee Drive, Oakland, California.

FIGURES

UPS-Oakland Center

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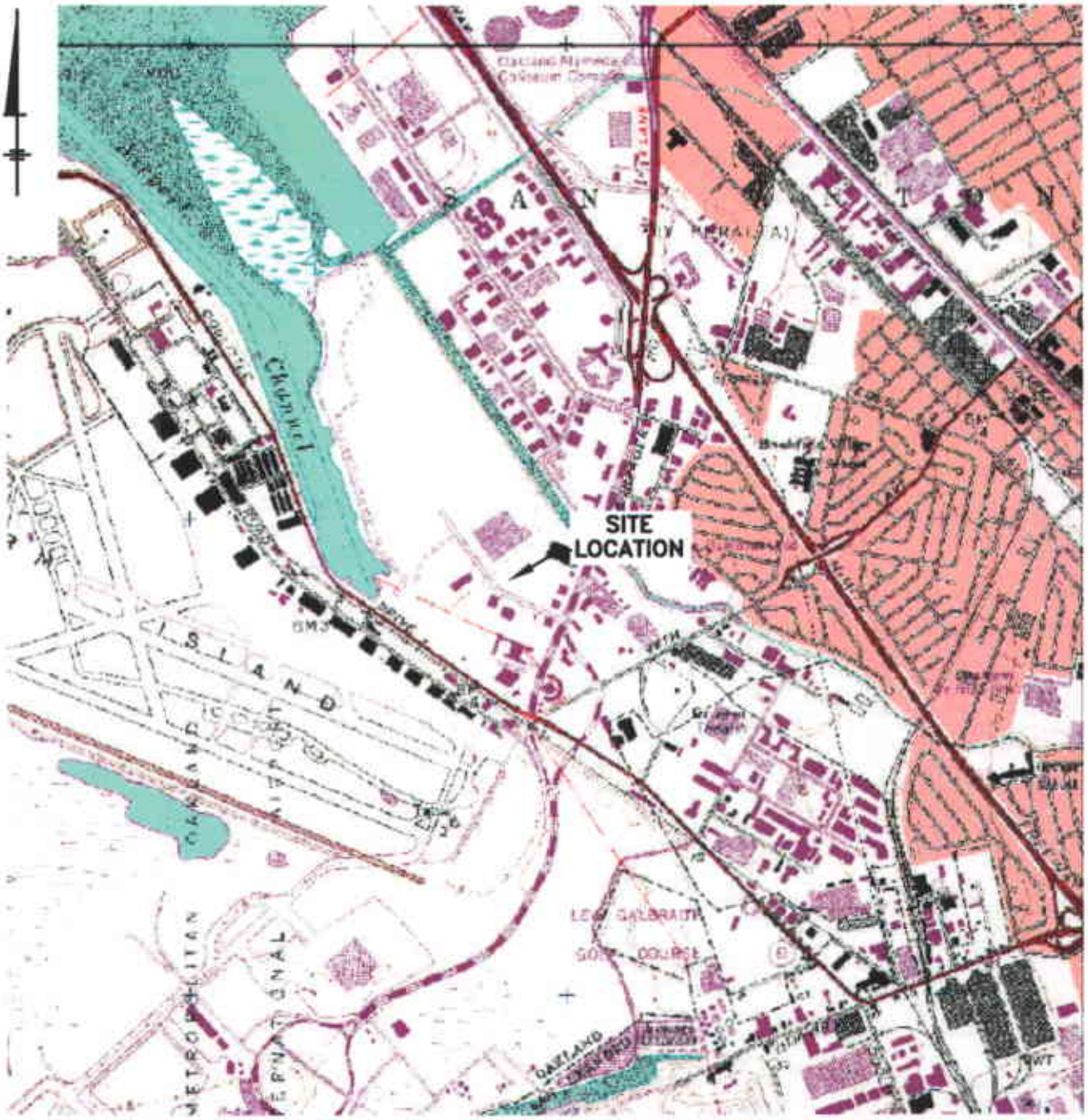

NOTES:

1. Base Map Source: USGS 7.5 Min. Topo. Quad., San Leandro, Calif.(1993)
2. Property Location is Approximate Only.

0 2000' 4000'

APPROXIMATE SCALE: 1"=2000'

X: WEST-OAK.BMP
L: (LAYER)
P: PAGESET/PLT-AP1
4/14/05 WV-85 JMS TAM-85 JAR
370\37056100\GMR0305\37056N01.DWG

UPS-OAKLAND FACILITY
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GROUNDWATER MONITORING REPORT

TOPOGRAPHIC MAP OF SITE LOCATION AND VICINITY

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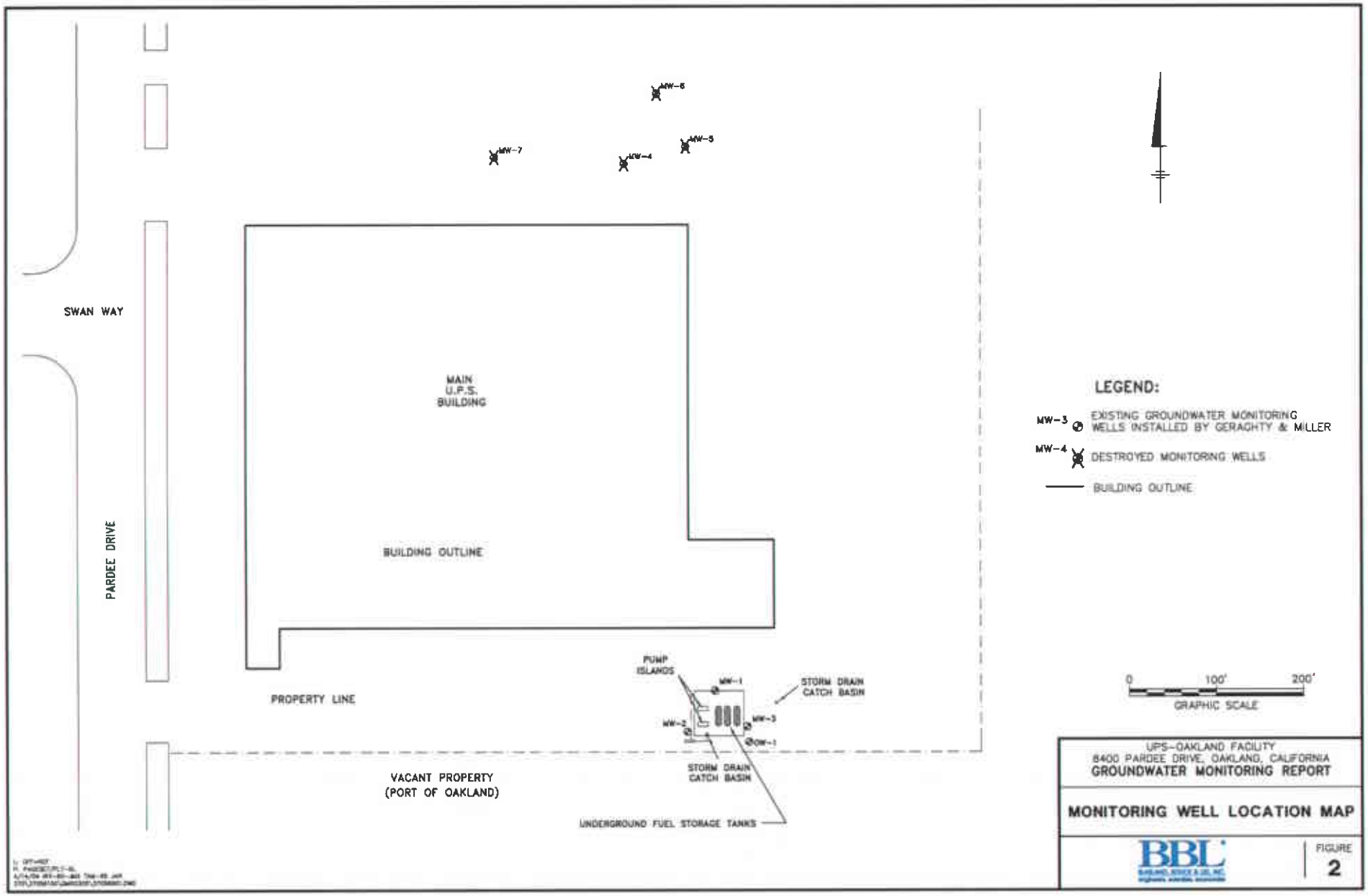
FIGURE
1

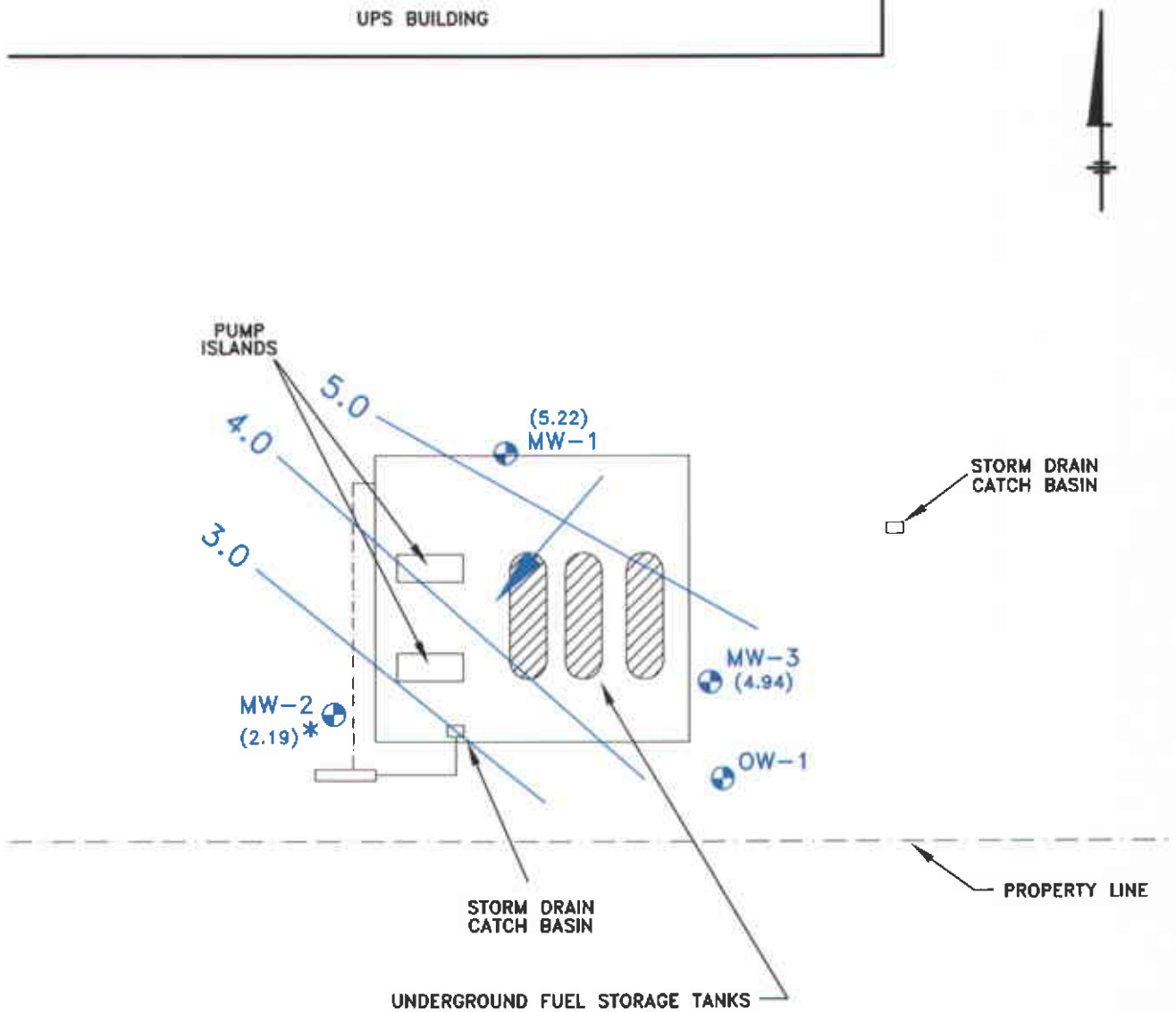


UPS-OAKLAND FACILITY
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GROUNDWATER MONITORING REPORT

MONITORING WELL LOCATION MAP

BBL

FIGURE
2



LEGEND:

MW-1 GROUNDWATER MONITORING WELL

(3.68) GROUNDWATER TABLE ELEVATION (FEET ABOVE MSL)

3.0 GROUNDWATER ELEVATION CONTOUR

* GROUNDWATER ELEVATION NOT CORRECTED FOR 0.02 FOOT OF PRODUCT PRESENT IN WELL

GROUNDWATER FLOW DIRECTION

0 30' 60'

GRAPHIC SCALE

NOTE:

1. OW-1 WAS NOT USED TO GENERATE CONTOURS. NO SURVEY DATA.

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GROUNDWATER MONITORING REPORT

GROUNDWATER CONTOUR MAP MARCH 23, 2005

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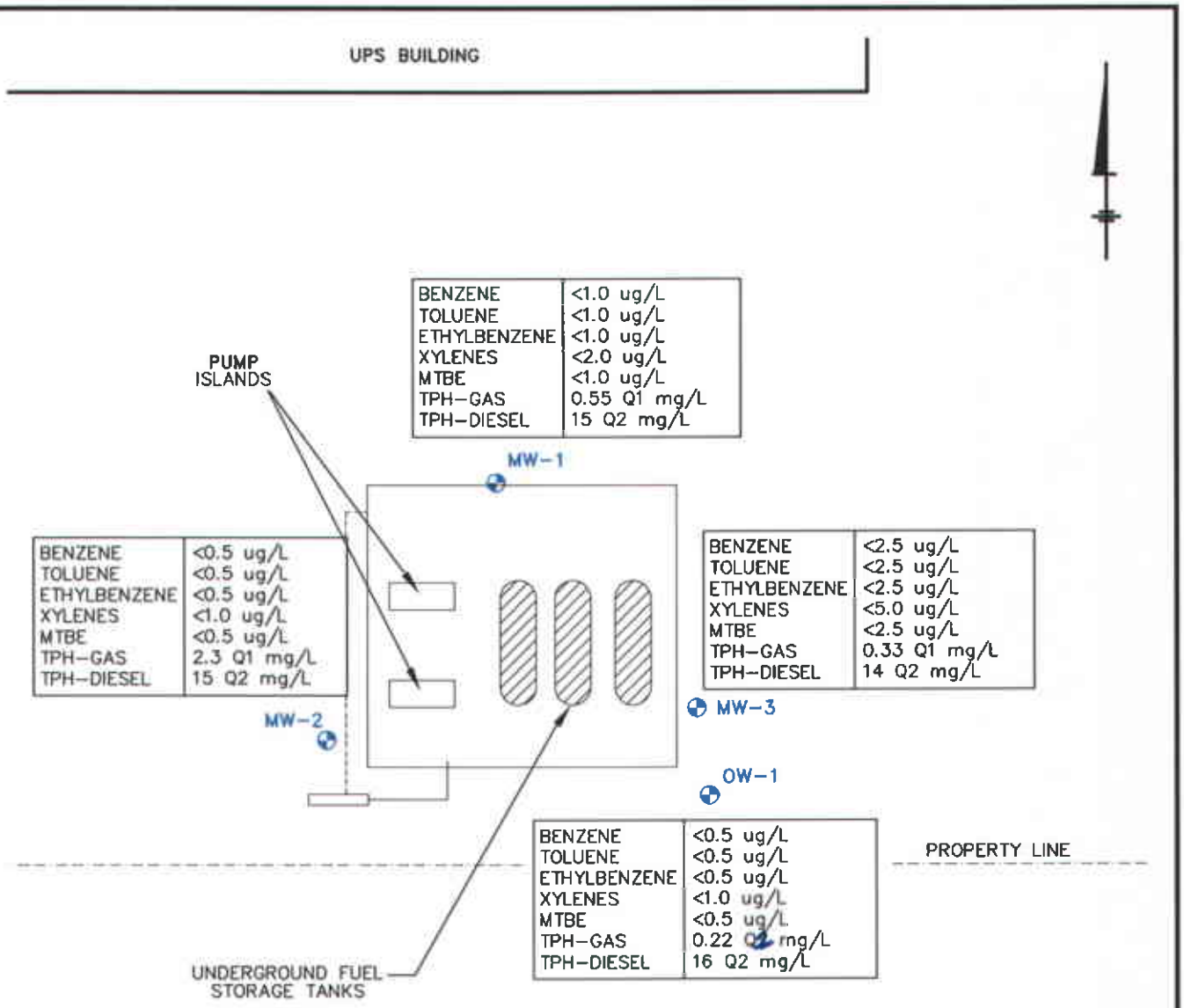
FIGURE 3

X: (XREF)
L: (LAYER)
P: PAGESET/PLT-APT
4/14/05 IRV-80 JMS TAM-85 JAR
370\37056100\GMR0305\37056M01.DWG



LEGEND:

MW-1 EXISTING GROUNDWATER MONITORING WELLS INSTALLED BY GERAGHTY & MILLER

ug/L MICROGRAMS PER LITER

mg/L MILLIGRAMS PER LITER

Q1 HYDROCARBON REPORTED DOES NOT MATCH THE PATTEN OF LABORATORY GASOLINE STANDARD.

Q2 HYDROCARBON REPORTED DOES NOT MATCH THE PATTEN OF LABORATORY DIESEL STANDARD.

0 30' 60'

GRAPHIC SCALE

UPS-OAKLAND FACILITY
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GROUNDWATER MONITORING REPORT

GROUNDWATER QUALITY MAP MARCH 23, 2005

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FIGURE 4

X: (XREF)
L: (LAYER)
P: PAGESET/PLT-AP1
4/14/05 IRV-BD JMS TAM-BS JAR
370\37056100\GMR0305\37056C01.DWG

TABLES

UPS-Oakland Center

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TABLE 1

HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)
MW-1	7.43	8/28/1990	3.80	3.63	--	Sheen
		9/20/1990	3.99	3.44	-0.19	None
		6/19/1991	3.47	3.96	0.52	NM
		7/23/1991	3.70	3.73	-0.23	NM
		8/26/1991	3.92	3.51	-0.22	NM
		11/18/1991	4.21	3.22	-0.29	NM
		2/3/1992	3.99	3.44	0.22	NM
		6/29/1992	3.38	4.05	0.61	NM
		6/23/1993	2.72	4.71	0.66	NM
		10/11/1993	3.87	3.56	-1.15	NM
		1/4/1994	3.34	4.09	0.53	NM
		5/10/1994	2.14	5.29	1.20	NM
		2/1/1995	1.84	5.59	0.30	NM
		8/2/1995	3.10	4.33	-1.26	NM
		10/16/1995	3.75	3.68	-0.65	NM
		12/28/1995	3.56	3.87	0.19	NM
		6/4/1997	3.16	4.27	0.40	None
		6/3/1998	NM	N/A	N/A	Sheen
		9/30/1999	3.75	3.68	N/A	Sheen
		10/11/2000	3.88	3.55	-0.13	Sheen
		9/3/2002	3.73	3.70	0.15	None
		10/22/2002	5.11	2.32	-1.38	0.05
		12/23/2002	3.51	3.92	1.60	None
		3/28/2003	3.52	3.91	-0.01	None
		6/20/2003	3.50	3.93	0.02	None
		7/14/2003	3.65	3.78	-0.15	None
		8/25/2003	3.87	3.56	-0.22	Sheen
		9/9/2003	4.02	3.41	-0.15	None
		9/25/2003	4.10	3.33	-0.08	None
		10/28/2003	4.29	3.14	-0.19	None
		11/18/2003	4.32	3.11	-0.03	None
		12/2/2003	4.34	3.09	-0.02	None
		1/27/2004	3.88	3.55	0.46	None
		2/24/2004	2.75	4.68	1.13	None
		3/29/2004	3.45	3.98	-0.70	None
		4/19/2004	3.55	3.88	-0.10	None
		5/20/2004	3.69	3.74	-0.14	None
		6/22/2004	3.81	3.62	-0.12	None
		7/27/2004	3.99	3.44	-0.18	None
		8/24/2004	4.14	3.29	-0.15	None
		9/29/2004	4.32	3.11	-0.18	None
		10/25/2004	3.89	3.54	0.43	None
		12/15/2004	3.18	4.25	0.71	None
		1/24/2005	2.69	4.74	0.49	None
		2/23/2005	2.48	4.95	0.21	None
		3/23/2005	2.21	5.22	0.27	None

Notes:
1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NM = Not measured; NC = Not calculated; N/A= Not Available

TABLE 1

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UPS-OAKLAND HUB
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Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)
MW-2	7.15	8/28/1990	4.98	2.17	--	Sheen
		9/20/1990	4.94	2.21	0.04	N/A
		6/19/1991	4.66	2.49	0.28	N/A
		7/23/1991	4.81	2.34	-0.15	N/A
		8/26/1991	4.89	2.26	-0.08	N/A
		11/18/1991	4.93	2.22	-0.04	N/A
		2/3/1992	4.44	2.71	0.49	N/A
		6/29/1992	4.80	2.35	-0.36	N/A
		6/23/1993	4.38	2.77	0.42	N/A
		10/11/1993	5.20	1.95	-0.82	N/A
		1/4/1994	4.56	2.59	0.64	N/A
		5/10/1994	4.20	2.95	0.36	N/A
		2/1/1995	4.00	3.15	0.2	N/A
		8/2/1995	4.71	2.44	-0.71	N/A
		10/16/1995	5.02	2.13	-0.31	N/A
		12/28/1995	4.56	2.59	0.46	N/A
		6/12/1996	NM	N/A	N/A	0.25
		6/4/1997	6.02	1.13	N/A	Small globules
		9/30/1999	4.95	2.20	1.07	Sheen
		10/11/2000	4.97	2.18	-0.02	0.08
		9/3/2002	5.02	2.13	-0.05	0.07
		9/27/2002	4.89	2.26	0.13	0.09
		12/23/2002	4.25	2.90	0.64	0.04
		2/12/2003	4.26	2.89	-0.01	0.01
		3/28/2003	4.35	2.80	-0.09	0.01
		6/20/2003	4.55	2.60	-0.20	0.01
		7/14/2003	4.56	2.59	-0.01	0.00
		8/25/2003	4.79	2.36	-0.23	0.01
		9/9/2003	4.90	2.25	-0.11	0.01
		9/25/2003	4.97	2.18	-0.07	0.01
		10/28/2003	4.98	2.17	-0.01	0.04
		11/18/2003	4.83	2.32	0.15	0.00
		12/3/2003	4.87	2.28	-0.04	0.00
		1/27/2004	7.39	-0.24	-2.52	Sheen
		2/24/2004	4.56	2.59	2.83	0.01
		3/29/2004	4.24	2.91	0.32	0.01
		4/19/2004	4.50	2.65	-0.26	0.01
		5/20/2004	4.53	2.62	-0.03	None
		6/22/2004	4.65	2.50	-0.12	Sheen
		7/27/2004	4.80	2.35	-0.15	Sheen
		8/24/2004	5.93	1.22	-1.13	None
		9/29/2004	5.00	2.15	0.93	0.02
		10/25/2004	4.68	2.47	0.32	Sheen
		12/15/2004	4.34	2.81	0.34	0.02
		1/24/2005	4.15	3.00	0.19	Sheen
		2/23/2005	4.95	2.20	-0.80	0.03
		3/23/2005	4.96	2.19	-0.01	0.02

Notes:
1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NM = Not measured; NC = Not calculated; N/A= Not Available

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8400 PARDEE DRIVE
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STATE ID # 583

Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)
MW-3	7.42	8/28/1990	3.88	3.54	--	Sheen
		9/20/1990	3.99	3.43	-0.11	N/A
		6/19/1991	3.49	3.93	0.50	N/A
		7/23/1991	3.71	3.71	-0.22	N/A
		8/26/1991	3.94	3.48	-0.23	N/A
		11/18/1991	4.23	3.19	-0.29	N/A
		2/3/1992	4.01	3.41	0.22	N/A
		6/29/1992	3.40	4.02	0.61	N/A
		6/23/1993	2.75	4.67	0.65	N/A
		10/11/1993	3.84	3.58	-1.09	N/A
		1/4/1994	3.40	4.02	0.44	N/A
		5/10/1994	2.25	5.17	1.15	N/A
		2/1/1995	2.43	4.99	-0.18	N/A
		8/2/1995	3.20	4.22	-0.77	N/A
		10/16/1995	3.72	3.70	-0.52	N/A
		12/28/1995	3.56	3.86	0.16	N/A
		6/4/1997	3.20	4.22	0.36	None
		6/3/1998	NM	N/A	N/A	Sheen
		9/30/1999	3.72	3.70	-0.52	Sheen
		10/11/2000	3.88	3.54	-0.16	Sheen
		9/3/2002	3.75	3.67	0.13	0.00
		12/23/2003	3.50	3.92	0.25	0.00
		3/28/2003	3.56	3.86	-0.06	0.00
		6/20/2003	3.52	3.90	0.04	0.00
		7/14/2003	3.65	3.77	-0.13	0.00
		8/25/2003	3.99	3.43	-0.34	0.00
		9/9/2003	3.99	3.43	0.00	0.00
		9/25/2003	4.06	3.36	-0.07	0.00
		10/28/2003	4.15	3.27	-0.09	0.00
		11/18/2003	4.28	3.14	-0.13	0.00
		12/2/2003	4.31	3.11	-0.03	0.00
		1/27/2004	3.85	3.57	0.46	0.00
		2/24/2004	3.70	3.72	0.15	0.00
		3/29/2004	3.47	3.95	0.23	0.00
		4/19/2004	3.55	3.87	-0.08	0.00
		5/20/2004	3.65	3.77	-0.10	None
		6/22/2004	3.83	3.59	-0.18	None
		7/27/2004	3.98	3.44	-0.15	None
		8/24/2004	4.14	3.28	-0.16	None
		9/29/2004	4.30	3.12	-0.16	None
		10/25/2004	3.85	3.57	0.45	None
		12/15/2004	3.16	4.26	0.69	None
		1/24/2005	2.65	4.77	0.51	None
		2/23/2005	2.50	4.92	0.15	None
		3/23/2005	2.48	4.94	0.02	None

Notes:
1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NM = Not measured; NC = Not calculated; N/A= Not Available

TABLE 1

HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)
OW-1	N/A	6/4/1997	7.22	NA	NA	Trace
		9/30/1999	8.35	NA	NA	0.01
		10/11/2000	6.90	NA	NA	0.09
		10/22/2002	7.34	NA	NA	0.01
		9/27/2002	7.02	NA	NA	0.14
		12/23/2002	5.17	NA	NA	0.03
		1/16/2003	4.97	NA	NA	0.01
		2/12/2003	5.23	NA	NA	0.01
		3/28/2003	5.16	NA	NA	0.01
		6/20/2003	4.93	NA	NA	0.01
		7/14/2003	5.33	NA	NA	0.00
		8/28/2003	5.85	NA	NA	0.00
		9/9/2003	6.33	NA	NA	Sheen
		9/25/2003	6.52	NA	NA	0.01
		10/28/2003	7.26	NA	NA	0.03
		11/18/2003	7.29	NA	NA	0.00
		12/2/2003	7.23	NA	NA	0.03
		1/27/2004	7.96	NA	NA	0.01
		2/24/2004	6.26	NA	NA	0.02
		3/29/2004	6.08	NA	NA	0.02
		4/19/2004	6.29	NA	NA	0.03
		5/20/2004	6.16	NA	NA	None
		6/22/2004	6.37	NA	NA	Sheen
		7/27/2004	5.67	NA	NA	0.04
		8/24/2004	6.81	NA	NA	None
		9/29/2004	7.08	NA	NA	0.04
		10/25/2004	6.74	NA	NA	0.04
		12/15/2004	5.33	NA	NA	0.01
		1/24/2005	3.98	NA	NA	None
		2/23/2005	3.44	NA	NA	0.01
		3/23/2005	3.34	NA	NA	0.02

Notes:
1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NM = Not measured; NC = Not calculated; N/A= Not Available

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (mg/L)	TPH as diesel (mg/L)	D.O. (mg/L)
MW-1	8/28/1990	**3**	1.4	4	2.4	NA	NA	21	NA
	6/19/1991	**1.7**	0.7	0.5	0.9	NA	NA	7.1	NA
	7/23/1991	**1.6**	1.1	0.5	1.5	NA	0.22	8.7	NA
	8/26/1991	**180**	120	31	160	NA	NA	2.8	NA
	11/18/1991	**1.1**	0.4	0.5	< 0.3	NA	NA	6.6	NA
	2/3/1992	0.9	< 0.3	0.8	0.7	NA	NA	2.2	NA
	6/29/1992	0.8	0.4	0.4	0.9	NA	NA	2.1	NA
	6/23/1993	0.66	< 0.5	0.5	< 0.5	NA	NA	3.2	NA
	10/11/1993	**1.3**	< 0.5	< 0.5	< 0.5	NA	NA	9.6	NA
	1/4/1994	**2.1**	0.65	1.3	2.1	NA	NA	12	NA
	5/10/1994	0.54	0.53	< 0.5	1.1	NA	NA	6.4	NA
	2/1/1995	< 1.0	< 1.0	1	< 1.0	NA	0.51	10	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.51	8.7	NA
	10/16/1995	**2.8**	< 0.5	< 0.5	< 0.5	NA	0.83	15	NA
	12/28/1995	**2.1**	< 0.5	< 0.5	< 0.5	NA	0.56	15	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	28	0.76
	9/30/1999	< 0.5	0.6	< 0.5	1.8	<3	1.6	28	9.9
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5	0.26	21	0.39
	9/3/2002	<0.5	<0.5	<0.5	0.5	<0.5	1.2	38	NA
	3/28/2003	<5	<5	<5	<10	<5.0	0.25	35	NM
	9/9/2003	<0.5	<0.5	<0.5	<1.0	0.6	0.44	11	NM
	4/19/2004	**3.2**	<2.5	<2.5	<5.0	<2.5	0.280	24.00 ndp	NM
	9/29/2004	<1.0	<1.0	<1.0	<2.0	2.1	1.40 g	150 ndp	NM
	3/23/2005	<1.0	<1.0	<1.0	<2.0	<1.0	.55 Q1	15 Q2	NM
MCL	--	1	150	300	1,750	13	--	--	--

Notes:

(µg/L) = are micrograms per liter and mg/L are milligrams per liter.

NA = Not Analyzed; NS = Not Sampled; ND = Not Detected

TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.

Title 22 of the California Code of Regulations, California Maximum Contaminant Levels (MCLs) for drinking water.

D.O. = Dissolved Oxygen measured in the field.

Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).

Bold values indicate analytical detections above MCL.

The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.

J - Estimated value between MDL and PQL.

ndp - Hydrocarbon reported does not match the pattern of laboratory Diesel standard.

Q2 = Quantity of unknown hydrocarbon(s) in sample based on diesel.

Q1 = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (mg/L)	TPH as diesel (mg/L)	D.O. (mg/L)
MW-2	8/28/1990	0.6	0.4	0.6	0.7	NA	NA	3.5	NA
	6/19/1991	0.5	< 0.3	< 0.3	< 0.3	NA	NA	<0.50	NA
	7/23/1991	0.7	< 0.3	< 0.3	< 0.3	NA	<0.50	0.66	NA
	8/26/1991	0.7	< 0.3	< 0.3	< 0.3	NA	NA	<0.50	NA
	11/18/1991	0.8	< 0.3	< 0.3	< 0.3	NA	NA	3.2	NA
	2/3/1992	0.7	< 0.3	< 0.3	0.5	NA	NA	0.4	NA
	6/29/1992	0.6	< 0.3	< 0.3	< 0.3	NA	NA	0.25	NA
	6/23/1993	0.55	< 0.5	< 0.5	< 0.5	NA	NA	11	NA
	10/11/1993	**1.2**	< 0.5	< 0.5	1.3	NA	NA	1.4	NA
	1/4/1994	0.72	< 0.5	< 0.5	1.1	NA	NA	3.7	NA
	5/10/1994	0.74	< 0.5	< 0.5	0.7	NA	NA	2.3	NA
	2/1/1995	**2.1**	< 1.0	< 1.0	< 1.0	NA	<100	2.1	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.21	3.6	NA
	10/16/1995	0.73	< 0.5	< 0.5	< 0.5	NA	0.13	1.4	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.21	2.8	NA
	6/12/1996	NS	NS	NS	NS	NS	NS	--	NS
	6/4/1997	NA	NA	NA	NA	NA	NA	3.3	0.52
	9/30/1999	< 0.5	< 0.5	< 0.5	< 1.0	< 3.0	0.22	6.3	9.5
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	0.17	4.4	0.43
	9/27/2002	0.7J	<2.5	<2.5	<2.5	<2.5	17	67	NM
	3/28/2003	<25	<25	<25	<50	<25	1.6	10	NM
	9/25/2003	0.52	<0.50	<0.50	<1.0	<0.50	0.15	12	NM
	3/29/2004	0.51	<0.50	<0.50	<1.0	<0.50	0.084 g	7.80 ndp	NM
	9/29/2004	<0.50	<0.50	<0.50	<1.0	<0.50	0.63 g	10 ndp	NM
	1/24/2005	<0.50	<0.50	<0.50	<1.0	<0.50	2.3 Q1	15 Q2	NM
MCL	--	1	150	300	1,750	13	--	--	--

Notes:

(µg/L) = are micrograms per liter and mg/L are milligrams per liter.

NA = Not Analyzed; NS = Not Sampled; ND = Not Detected

TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.

Title 22 of the California Code of Regulations, California Maximum Contaminant Levels (MCLs) for drinking water.

D.O. = Dissolved Oxygen measured in the field.

Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).

Bold values indicate analytical detections above MCL.

The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.

J - Estimated value between MDL and PQL.

g - Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.

ndp - Hydrocarbon reported does not match the pattern of laboratory Diesel standard.

Q2 = Quantity of unknown hydrocarbon(s) in sample based on diesel.

Q1 = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (mg/L)	TPH as diesel (mg/L)	D.O. (mg/L)
MW-3	8/28/1990	0.5	0.8	4.3	2.3	NA	NA	18	NA
	6/19/1991	0.4	0.4	1.7	1.4	NA	NA	1.3	NA
	7/23/1991	0.3	< 0.3	1.5	0.5	NA	0.33	6.8	NA
	8/26/1991	**13**	13	5.8	26	NA	NA	<0.05	NA
	11/18/1991	0.6	< 0.3	< 0.3	< 0.3	NA	NA	2.5	NA
	2/3/1992	0.4	< 0.3	1.3	0.6	NA	NA	1.1	NA
	6/29/1992	< 0.3	< 0.3	1.3	0.3	NA	NA	3.2	NA
	6/23/1993	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	8.1	NA
	10/11/1993	**1**	< 0.5	1.5	2.4	NA	NA	7.1	NA
	1/4/1994	< 0.5	< 0.5	1.6	< 0.5	NA	NA	7.4	NA
	5/10/1994	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	5.7	NA
	2/1/1995	< 1.0	< 1.0	2.7	4.1	NA	0.81	10	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	1.2	6.5	NA
	10/16/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.93	9.8	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.69	11	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	34	0.84
	9/30/1999	< 0.5	0.6	0.7	1.2	< 3.0	1.3	8.7	8.6
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	0.43	20	0.51
	9/3/2002	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	14	NA
	3/28/2003	<25	<25	<25	<50	<25	2.5	19	NM
	9/9/2003	<0.5	<0.5	<0.5	<1.0	<0.5	0.7	73	NM
	4/19/2004	<0.50	<0.50	<0.50	<1.0	<0.50	0.099	14 ndp	NM
	9/29/2004	<2.5	<2.5	<2.5	<5.0	<2.5	0.39 g	10 ndp	NM
	1/24/2005	<2.5	<2.5	<2.5	<5.0	<2.5	.33 Q1	14 Q2	NM
MCL	--	1	150	300	1,750	13	--	--	--

Notes:

(µg/L) = are micrograms per liter and mg/L are milligrams per liter.

NA = Not Analyzed; NS = Not Sampled; ND = Not Detected

TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.

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Bold values indicate analytical detections.

The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.

J - Estimated value between MDL and PQL.

ndp - Hydrocarbon reported does not match the pattern of laboratory Diesel standard.

Q2 = Quantity of unknown hydrocarbon(s) in sample based on diesel.

Q1 = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (mg/L)	TPH as diesel (mg/L)	D.O. (mg/L)
OW-1	6/23/1993	< 0.5	< 0.5	< 0.5	31.0	NA	NA	3,400	NA
	6/4/1997	NS	NS	NS	NS	NS	NS	NS	NS
	9/30/1999	< 2.0	< 2.0	< 2.0	4.2	< 12.0	8.3	2,800	9.7
	9/30/1999	< 1.0	< 1.0	1.9	8.9	< 6.0	2.9	340	--
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	2.1	58	0.74
	9/27/2002	0.6J	<2.5	<2.5	<2.5	<2.5	17	23	NA
	3/28/2003	<50	<50	<50	<100	<50	0.82	81	NM
	9/25/2003	<50	**530**	500	**6,200**	<50	0.22	91	NM
	3/29/2004	<0.50	<0.50	<0.50	<1.0	<0.50	0.510	280 ndp	NM
	9/29/2004	<2.5	<2.5	<2.5	<5.0	<2.5	2.80 g	440 ndp	NM
	1/24/2005	<0.50	<0.50	<0.50	<1.0	<0.50	.22 Q1	16 Q2	NM
MCL	--	1	150	300	1,750	13	--	--	--

Notes:

(µg/L) = are micrograms per liter and mg/L are milligrams per liter.

NA = Not Analyzed; NS = Not Sampled; ND = Not Detected

TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.

Title 22 of the California Code of Regulations, California Maximum Contaminant Levels (MCLs) for drinking water.

D.O. = Dissolved Oxygen measured in the field.

Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).

Bold values indicate analytical detections.

The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.

J - Estimated value between MDL and PQL.

ndp - Hydrocarbon reported does not match the pattern of laboratory Diesel standard.

Q2 = Quantity of unknown hydrocarbon(s) in sample based on diesel.

Q1 = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

APPENDIX A

Standard Field Procedures for Groundwater Monitoring UPS-Oakland Center

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND WELL SAMPLING

Standard field procedures for groundwater sampling at UPS are as follows during the monitoring events.

Groundwater Sampling Procedure

Prior to the collection of groundwater samples at the subject property, each well is sounded to determine depth to water and total well depth using an electronic Interface Probe. From this data, the wetted casing volume is calculated for each monitoring well. The electric sounder is cleaned in a solution of Liquinox (or equivalent) and water, and triple-rinsed with de-ionized water before and after measuring each well.

The wells are purged a minimum of three wetted casing volumes prior to sampling utilizing a new disposable bailer or an electric submersible pump. Purged water from the casing and gravel/sand pack is contained in labeled, sealed, DOT-approved 55-gallon drums. This purge water is stored on-site in a designated hazardous waste storage area until proper disposal can be determined based on groundwater sampling laboratory results.

Dedicated latex or nitrile surgical gloves and string are used when sampling each well. A new disposable bailer is used to sample each well to avoid the potential for cross-contamination. Upon collection, the groundwater samples are transferred from the sampling bailer to clean, laboratory-provided, sample containers. The sample containers are filled, labeled and sealed with teflon-lined screw lids and septa. The sample containers are double-bagged in self-locking plastic bags to prevent cross-contamination, placed on ice to prevent possible volatilization, and transported to a California state certified laboratory. Transportation of the samples follows industry standard chain-of-custody protocol. In addition, a duplicate sample is collected from one of the monitoring wells. The duplicate sample and the laboratory-supplied trip blank are also transported in the iced cooler with the other collected groundwater samples.

Decontamination Procedures

The non-disposable field drilling and sampling equipment is cleaned prior and after use. Field equipment is cleaned with a solution of Liquinox (or equivalent) and water. Prior to each use all field equipment is subsequently, triple rinsed with the final being de-ionized water. The purge water and decontamination water is collected in 55-gallon DOT approved drums and temporarily stored on-site pending laboratory analysis.

APPENDIX B

Well Gauging Data
UPS-Oakland Center

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

SPH or Purge Water Drum Log

Client: BB & L

Site Address: UPS Oakland

STATUS OF DRUM(S) UPON ARRIVAL						
Date	2/23/05	3/25/05				
Number of drum(s) empty:	1					
Number of drum(s) 1/4 full:	1	1				
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:						
Total drum(s) on site:	2	1				
Are the drum(s) properly labeled?	Y	Y				
Drum ID & Contents:	SPH & H_2O	→				
If any drum(s) are partially or totally filled, what is the first use date:	11/24/04					

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	2/23/05	3/25/05				
Number of drums empty:	1					
Number of drum(s) 1/4 full:	1					
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:		1				
Number of drum(s) full:		1				
Total drum(s) on site:	2	2				
Are the drum(s) properly labeled?	Y	Y				
Drum ID & Contents:	SPH & H_2O					

LOCATION OF DRUM(S)	
Describe location of drum(s):	Eastside of building behind trailer

FINAL STATUS						
Number of new drum(s) left on site this event	~~2/23/05~~ Ø	1				
Date of inspection:	2/23/05	3/25/05				
Drum(s) labelled properly:	Y	Y				
Logged by BTS Field Tech:	WE	PW				
Office reviewed by:		MW				

WELLHEAD INSPECTION CHECKLIST

Date 3-23-05 Client BB+L

Site Address 8400 Pardee Drive Oakland

Job Number 050323-OW-3 Technician DW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	X							
MW-2	X							
MW-3	X							
OW-1							X	

NOTES: OW-1 - Rim is loose

WELL GAUGING DATA

Project # 050323-DW-3 Date 3-23-25 Client BB+L

Site 8400 Pardee Drive 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	
MW-1	4					2.21	14.00		
MW-2	4		4.94	.02	49	4.96	14.40		
MW-3	4					2.48	14.50		
DW-[redacted]	5		3.32	.02	77	3.34	18.40		

WELL MONITORING DATA SHEET

Project #: 050323-DW-4	Client: BB&L
Sampler: DW	Date: 3-23-05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 14.00	Depth to Water (DTW): 2.21
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]: 4.56	

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

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

7.7 (Gals.) X	3	=	23.1 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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
12:03	63.5	6.8	1012	410	7.7	gray
12:05	64.7	6.7	1481	122	15.4	clearer
12:07	64.9	6.7	1642	38	23.1	yellowish

Did well dewater? Yes (No) Gallons actually evacuated: 23.1

Sampling Date: 3-23-05 Sampling Time: 12:12 Depth to Water: 2.32

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

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) Other:

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

WELL MONITORING DATA SHEET

Project #: 050323-DW-4	Client: BB&L
Sampler: DW	Date: 3-23-05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 14.40	Depth to Water (DTW): ~~4.96~~ 4.96
Depth to Free Product: 4.94	Thickness of Free Product (feet): .02
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.83	

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

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

6.1 (Gals.) X 3 = 18.3 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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
13:14	62.7	6.6	4011	67	6.1	
		well	dewatered	@ 8 gl.	DTW= 12.55	
13:52	62.1	6.8	3822	80	-	

Did well dewater? (Yes) No Gallons actually evacuated: 8

Sampling Date: 3-23-05 Sampling Time: 13:52 Depth to Water:

Sample I.D.: MW-2 Laboratory: Kiff CalScience Other STL

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) Other:

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

WELL MONITORING DATA SHEET

Project #: 050323-DW-4	Client: BB&L
Sampler: DW	Date: 3-23-05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.50	Depth to Water (DTW): 2.48
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]: 4.88	

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

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

7.8 (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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
12:25	62.4	6.7	1892	56	7.8	
	well	dewatered @ 8 gl.	DTW=	13.65		
13:30	62.7	6.8	1223	28		

Did well dewater? (Yes) No Gallons actually evacuated: 8

Sampling Date: 3-23-05 Sampling Time: 13:30 Depth to Water: 2.50

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

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) Other:

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

WELL MONITORING DATA SHEET

Project #: 050323-OW-4	Client: BB&L
Sampler: DW	Date: 3-23-05
Well I.D.: OW-1	Well Diameter: 2 3 4 6 8 5"
Total Well Depth (TD): 18.40	Depth to Water (DTW): 3.54
Depth to Free Product: 3.32	Thickness of Free Product (feet): .02
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.35	

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

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

15.4 (Gals.) X 3 = 46.2 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

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1241	64.5	6.6	2351	82	15.4	sheen
	well dewatered @ 23 gl. DTW = 16.50					
13:40	64.8	6.6	2270	91	-	

Did well dewater? (Yes) No Gallons actually evacuated: 23

Sampling Date: 3-23-05 Sampling Time: 13:40 Depth to Water: 10.89 (Site dep)

Sample I.D.: OW-1 Laboratory: Kiff CalScience Other STL

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) Other:

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

APPENDIX C

Laboratory Analytical Results
UPS-Oakland Center

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

SEVERN TRENT STL

Submission#: 2005-03-0836

Blasland, Bouck & Lee, Inc. Kennesaw

April 11, 2005

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144

Attn.: Hugh B. Devery

Project#: BTS#050323-DW-3
Project: UPS
Site: 8400 Pardee Drive, Oakland, CA

Dear Mr. Devery:

Attached is our report for your samples received on 03/24/2005 17:16
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/08/2005 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: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2005-03-0836

Diesel

Blasland, Bouck & Lee, Inc. Kennesaw
Attn.: Hugh B. Devery

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/23/2005 12:12	Water	1
MW-2	03/23/2005 13:52	Water	2
MW-3	03/23/2005 13:30	Water	3
DW-1	03/23/2005 13:40	Water	4

Diesel

Blasland, Bouck & Lee, Inc. Kennesaw
Attn.: Hugh B. Devery

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 3511
Sample ID: **MW-1**
Sampled: 03/23/2005 12:12
Matrix: Water

Test(s): 8015M
Lab ID: 2005-03-0836 - 1
Extracted: 3/29/2005 13:39
QC Batch#: 2005/03/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	15000	500	ug/L	10.00	03/30/2005 19:54	Q2
Surrogate(s)						
o-Terphenyl	NA	64-127	%	10.00	03/30/2005 19:54	S3

Diesel

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Attn.: Hugh B. Devery

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 3511
Sample ID: **MW-2**
Sampled: 03/23/2005 13:52
Matrix: Water

Test(s): 8015M
Lab ID: 2005-03-0836 - 2
Extracted: 3/29/2005 13:39
QC Batch#: 2005/03/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	15000	500	ug/L	10.00	03/30/2005 19:26	Q2
Surrogate(s)						
o-Terphenyl	NA	64-127	%	10.00	03/30/2005 19:26	S3

Diesel

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Attn.: Hugh B. Devery

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Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 3511
Sample ID: **MW-3**
Sampled: 03/23/2005 13:30
Matrix: Water

Test(s): 8015M
Lab ID: 2005-03-0836 - 3
Extracted: 3/29/2005 13:39
QC Batch#: 2005/03/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	14000	500	ug/L	10.00	03/30/2005 19:54	Q2
Surrogate(s)						
o-Terphenyl	NA	64-127	%	10.00	03/30/2005 19:54	S3

Diesel

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 3511
Sample ID: **DW-1** 0 w -1
Sampled: 03/23/2005 13:40
Matrix: Water

Test(s): 8015M
Lab ID: 2005-03-0836 - 4
Extracted: 3/29/2005 13:39
QC Batch#: 2005/03/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	16000	500	ug/L	10.00	03/30/2005 13:22	Q2
Surrogate(s)						
o-Terphenyl	NA	64-127	%	10.00	03/30/2005 13:22	S3

Diesel

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Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 3511
Method Blank
MB: 2005/03/29-02.10-001

Water

Test(s): 8015M
QC Batch # 2005/03/29-02.10
Date Extracted: 03/29/2005 13:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/29/2005 22:17	
Surrogates(s)					
o-Terphenyl	103.6	64-127	%	03/29/2005 22:17	

Diesel

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/03/29-02.10**

LCS 2005/03/29-02.10-002 Extracted: 03/29/2005 Analyzed: 03/29/2005 22:44
LCSD 2005/03/29-02.10-003 Extracted: 03/29/2005 Analyzed: 03/29/2005 23:11

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	584	584	680	85.9	85.9	0.0	60-150	25		
Surrogates(s)										
o-Terphenyl	1.18	1.17	1.25	94.4	93.3		64-127	0		

Diesel

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

S3

Surrogate recovery not reportable due to required dilution.

SEVERN TRENT STL

Submission: 2005-03-0836

Fuel Oxygenates by 8260B

Blasland, Bouck & Lee, Inc. Kennesaw
Attn.: Hugh B. Devery

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/23/2005 12:12	Water	1
MW-2	03/23/2005 13:52	Water	2
MW-3	03/23/2005 13:30	Water	3
DW-1	03/23/2005 13:40	Water	4

Fuel Oxygenates by 8260B

Blasland, Bouck & Lee, Inc. Kennesaw
Attn.: Hugh B. Devery

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-1**
Sampled: 03/23/2005 12:12
Matrix: Water

Test(s): 8260B
Lab ID: 2005-03-0836 - 1
Extracted: 4/3/2005 21:51
QC Batch#: 2005/04/03-01.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	550	50	ug/L	1.00	04/03/2005 21:51	Q1
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	2.00	04/03/2005 21:51	
Benzene	ND	1.0	ug/L	2.00	04/03/2005 21:51	
Toluene	ND	1.0	ug/L	2.00	04/03/2005 21:51	
Ethylbenzene	ND	1.0	ug/L	2.00	04/03/2005 21:51	
Total xylenes	ND	2.0	ug/L	2.00	04/03/2005 21:51	
Surrogate(s)						
1,2-Dichloroethane-d4	91.2	73-130	%	2.00	04/03/2005 21:51	
Toluene-d8	102.3	81-114	%	2.00	04/03/2005 21:51	

Fuel Oxygenates by 8260B

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-2**
Sampled: 03/23/2005 13:52
Matrix: Water

Test(s): 8260B
Lab ID: 2005-03-0836 - 2
Extracted: 4/3/2005 22:17
QC Batch#: 2005/04/03-01.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2300	50	ug/L	1.00	04/03/2005 22:17	Q1
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/03/2005 22:17	
Benzene	ND	0.50	ug/L	1.00	04/03/2005 22:17	
Toluene	ND	0.50	ug/L	1.00	04/03/2005 22:17	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2005 22:17	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2005 22:17	
Surrogate(s)						
1,2-Dichloroethane-d4	92.0	73-130	%	1.00	04/03/2005 22:17	
Toluene-d8	95.5	81-114	%	1.00	04/03/2005 22:17	

Fuel Oxygenates by 8260B

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-3**
Sampled: 03/23/2005 13:30
Matrix: Water

Test(s): 8260B
Lab ID: 2005-03-0836 - 3
Extracted: 4/4/2005 13:21
QC Batch#: 2005/04/04-01.66

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	330	250	ug/L	5.00	04/04/2005 13:21	Q1
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	04/04/2005 13:21	
Benzene	ND	2.5	ug/L	5.00	04/04/2005 13:21	
Toluene	ND	2.5	ug/L	5.00	04/04/2005 13:21	
Ethylbenzene	ND	2.5	ug/L	5.00	04/04/2005 13:21	
Total xylenes	ND	5.0	ug/L	5.00	04/04/2005 13:21	
Surrogate(s)						
1,2-Dichloroethane-d4	96.6	73-130	%	5.00	04/04/2005 13:21	
Toluene-d8	104.6	81-114	%	5.00	04/04/2005 13:21	

Fuel Oxygenates by 8260B

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Prep(s): 5030B
Sample ID: **DW-1**
Sampled: 03/23/2005 13:40
Matrix: Water

Test(s): 8260B
Lab ID: 2005-03-0836 - 4
Extracted: 4/3/2005 23:09
QC Batch#: 2005/04/03-01.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	220	50	ug/L	1.00	04/03/2005 23:09	Q1
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/03/2005 23:09	
Benzene	ND	0.50	ug/L	1.00	04/03/2005 23:09	
Toluene	ND	0.50	ug/L	1.00	04/03/2005 23:09	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2005 23:09	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2005 23:09	
Surrogate(s)						
1,2-Dichloroethane-d4	93.4	73-130	%	1.00	04/03/2005 23:09	
Toluene-d8	89.7	81-114	%	1.00	04/03/2005 23:09	

Fuel Oxygenates by 8260B

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/04/03-01.65-043

Water

Test(s): 8260B
QC Batch # 2005/04/03-01.65
Date Extracted: 04/03/2005 15:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/03/2005 15:43	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/03/2005 15:43	
Benzene	ND	0.5	ug/L	04/03/2005 15:43	
Toluene	ND	0.5	ug/L	04/03/2005 15:43	
Ethylbenzene	ND	0.5	ug/L	04/03/2005 15:43	
Total xylenes	ND	1.0	ug/L	04/03/2005 15:43	
Surrogates(s)					
1,2-Dichloroethane-d4	100.2	73-130	%	04/03/2005 15:43	
Toluene-d8	102.2	81-114	%	04/03/2005 15:43	

Fuel Oxygenates by 8260B

Blasland, Bouck & Lee, Inc. Kennesaw
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Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/04/04-01.66-049

Water

Test(s): 8260B
QC Batch # 2005/04/04-01.66
Date Extracted: 04/04/2005 09:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/04/2005 09:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/04/2005 09:49	
Benzene	ND	0.5	ug/L	04/04/2005 09:49	
Toluene	ND	0.5	ug/L	04/04/2005 09:49	
Ethylbenzene	ND	0.5	ug/L	04/04/2005 09:49	
Total xylenes	ND	1.0	ug/L	04/04/2005 09:49	
Surrogates(s)					
1,2-Dichloroethane-d4	103.8	73-130	%	04/04/2005 09:49	
Toluene-d8	103.0	81-114	%	04/04/2005 09:49	

Fuel Oxygenates by 8260B

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/04/03-01.65**

LCS 2005/04/03-01.65-018 Extracted: 04/03/2005 Analyzed: 04/03/2005 15:18

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.8		25.0	95.2			65-165	20		
Benzene	22.2		25.0	88.8			69-129	20		
Toluene	23.6		25.0	94.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	418		500	83.6			73-130			
Toluene-d8	488		500	97.6			81-114			

Fuel Oxygenates by 8260B

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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/04/04-01.66**

LCS 2005/04/04-01.66-023 Extracted: 04/04/2005 Analyzed: 04/04/2005 09:23

LCSD

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		25.0	98.8			65-165	20		
Benzene	22.6		25.0	90.4			69-129	20		
Toluene	25.9		25.0	103.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	467		500	93.4			73-130			
Toluene-d8	528		500	105.6			81-114			

Fuel Oxygenates by 8260B

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Attn.: Hugh B. Devery

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Phone: (770) 428-9009 Fax: (770) 428-4004

Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/04/03-01.65**

MS/MSD

Lab ID: 2005-03-0880 - 002

MS: 2005/04/03-01.65-038 Extracted: 04/03/2005 Analyzed: 04/03/2005 16:38

Dilution: 1.00

MSD: 2005/04/03-01.65-004 Extracted: 04/03/2005 Analyzed: 04/03/2005 17:04

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	97.1	105	77.9	25.0	76.8	108.4	34.1	65-165	20		R1
Benzene	26.3	18.8	ND	25.0	105.2	75.2	33.3	69-129	20		R1
Toluene	25.2	20.4	ND	25.0	100.8	81.6	21.1	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	397	427		500	79.4	85.4		73-130			
Toluene-d8	473	466		500	94.6	93.2		81-114			

Fuel Oxygenates by 8260B

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Kennesaw, GA 30144
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Project: BTS#050323-DW-3
UPS

Received: 03/24/2005 17:16

Site: 8400 Pardee Drive, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/04/04-01.66**

MS/MSD

Lab ID: 2005-03-0807 - 001

MS: 2005/04/04-01.66-050 Extracted: 04/04/2005 Analyzed: 04/04/2005 10:49
Dilution: 1.00

MSD: 2005/04/04-01.66-051 Extracted: 04/04/2005 Analyzed: 04/04/2005 11:15
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	28.4	28.4	5.016	25.0	93.5	93.5	0.0	69-129	20		
Toluene	285	283	255.115	25.0	119.5	111.5	6.9	70-130	20		
Methyl tert-butyl ether	26.7	27.0	3.238	25.0	93.8	95.0	1.3	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	467	464		500	93.4	92.8		73-130	0		
Toluene-d8	533	530		500	106.6	106.0		81-114	0		

SEVERN TRENT STL

Submission: 2005-03-0836

Fuel Oxygenates by 8260B

Blasland, Bouck & Lee, Inc. Kennesaw
Attn.: Hugh B. Devery

975 Cobb Place Blvd., Ste. 311
Kennesaw, GA 30144
Phone: (770) 428-9009 Fax: (770) 428-4004

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Legend and Notes

Analysis Flag

L2

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

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

R1

Analyte RPD was out of QC limits.

Severn Trent Laboratories, Inc.
STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

2005-03-0836

LAB STL 103610 DHS #

CONDUCT ANALYSIS TO DETECT

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

CHAIN OF CUSTODY BTS # 050323-DW-3

CLIENT Blasland, Bouck, & Lee, Inc.

SITE UPS
8400 Pardee Drive
Oakland, CA

SPECIAL INSTRUCTIONS

Invoice and Report to : Blasland, Bouck,& Lee, Inc.
Attn: Hugh Devery
707-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-Gro, BTEX, MTBE (8260)	TPH-D (8015)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	3-23	1212	W	6	HCl Vial's NP Vial's		X	X				
MW-2	↓	1352	↓	↓	↓		X	X				
MW-3		1330					X	X				
OW-1		1340					X	X				
												Temp 2°C

SAMPLING COMPLETED DATE 3-23-05 TIME

SAMPLING PERFORMED BY Dave Walter

RESULTS NEEDED NO LATER THAN As contracted

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
David C. Walt	3/24/05	1301		3/24/05	1301
	3/24/05	1716		3/24/05	1716

SHIPPED VIA | DATE SENT | TIME SENT | COOLER # |