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R0515

Transmitted Via UPS Next Day Air

February 2, 2006

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 Second Semi-Annual 2005 Monitoring & Sampling Report for the above-referenced facility. This report describes groundwater monitoring efforts performed at the site on November 29, 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, P.G.
Senior Geologist

HBD/hbd

cc: Linda Lyons, UPS, w/ attachments
File

975 Cobb Place Boulevard • Suite 311 • Kennesaw, Georgia 30144-4817
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REPORT

Year 2005 Second 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

January 2006

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COPY

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TECHNICAL REPORT

Year 2005 Second 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

January 2006

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Groundwater Monitoring & Sampling

1.1. Introduction

United Parcel Service (UPS) retained Blasland, Bouck & Lee, Inc. (BBL) to perform semi-annual quality groundwater monitoring at the UPS-Oakland Hub located at 8400 Pardee Drive, Oakland, California (**Figures 1** and **2**). This report describes results of groundwater monitoring performed on November 29, 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 as **Table 1**.

Groundwater samples were collected from groundwater monitoring wells MW-1, MW-2, MW-3 and OW-1 on November 29, 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 November 29, 2005. Static fluid levels in the wells were measured to an accuracy of 0.01-foot (ft) 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 0.01-ft and 0.04-ft. Groundwater elevations in monitoring wells MW-1 and MW-3 in November 2005 were approximately 0.5 to 1.0-ft higher than water levels measured during the last sampling event of 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 is consistent with historical groundwater flow direction.

1.3. Water Quality

Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3 and OW-1 on November 29, 2005. The thin layer amount of PSH was bailed off prior to sampling wells MW-2 (0.01-ft) and OW-1 (0.04-ft). The groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPH-d) by US Environmental Protection Agency (USEPA) Method 8015M and for TPH-gasoline (TPH-g), 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 concentrations were detected in MW-1 at the low concentration of 0.94 microgram per liter (µg/L). MTBE was not detected above MCL in any of the groundwater samples. No additional BTEX analytes were detected above detection limits or MCL in any of the remaining groundwater samples collected during the November 2005 monitoring event. TPH-g was detected in monitoring wells MW-1, MW-2, MW-3 and OW-1; MW-1 contained a concentration of 0.31 milligrams per liter (mg/L), MW-2 contained a concentration of 1.90 mg/L, MW-3 contained a concentration of 1.20 mg/L and OW-1 with a contained of 0.65 mg/L. The groundwater samples collected from each well contained a laboratory validation flag stating, "Quantity of unknown hydrocarbon(s) in sample based on gasoline". TPH-d concentrations were detected in wells MW-1, MW-2, MW-3 and OW-1; MW-1 contained a concentration of 7.80 mg/L, MW-2 contained a concentration of 22.0 mg/L, MW-3 contained a concentration of 8.30 mg/L and OW-1 contained a

concentration of 30.0 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 two 55-gallon drums and stored at the UPS Hub pending proper disposal offsite.

1.5. Summary

1. PSH was detected in monitoring wells MW-2 and OW-1, with apparent thicknesses of 0.01-ft, and 0.04-ft.

2. Groundwater samples were collected on November 29, 2005 and sampled for BTEX, MTBE, TPH-g and TPH-d.

3. Groundwater elevations in November 2005 were approximately 0.5 to 1.0-ft feet higher on average than water levels measured during the last sampling event of March 2005. Groundwater flow is to the southwest, consistent with historical direction.

4. BTEX was not detected above laboratory detection limits or their primary drinking water MCLs.

5. MTBE was detected in MW-1 at the low concentration of 0.94 µg/L. MTBE was not detected above detection limits in any of the other groundwater samples, and is below its MCL.

6. TPH-g and TPH-d were both detected at low concentrations in site wells; however, a MCL for TPH-g or TPH-d does not exist.

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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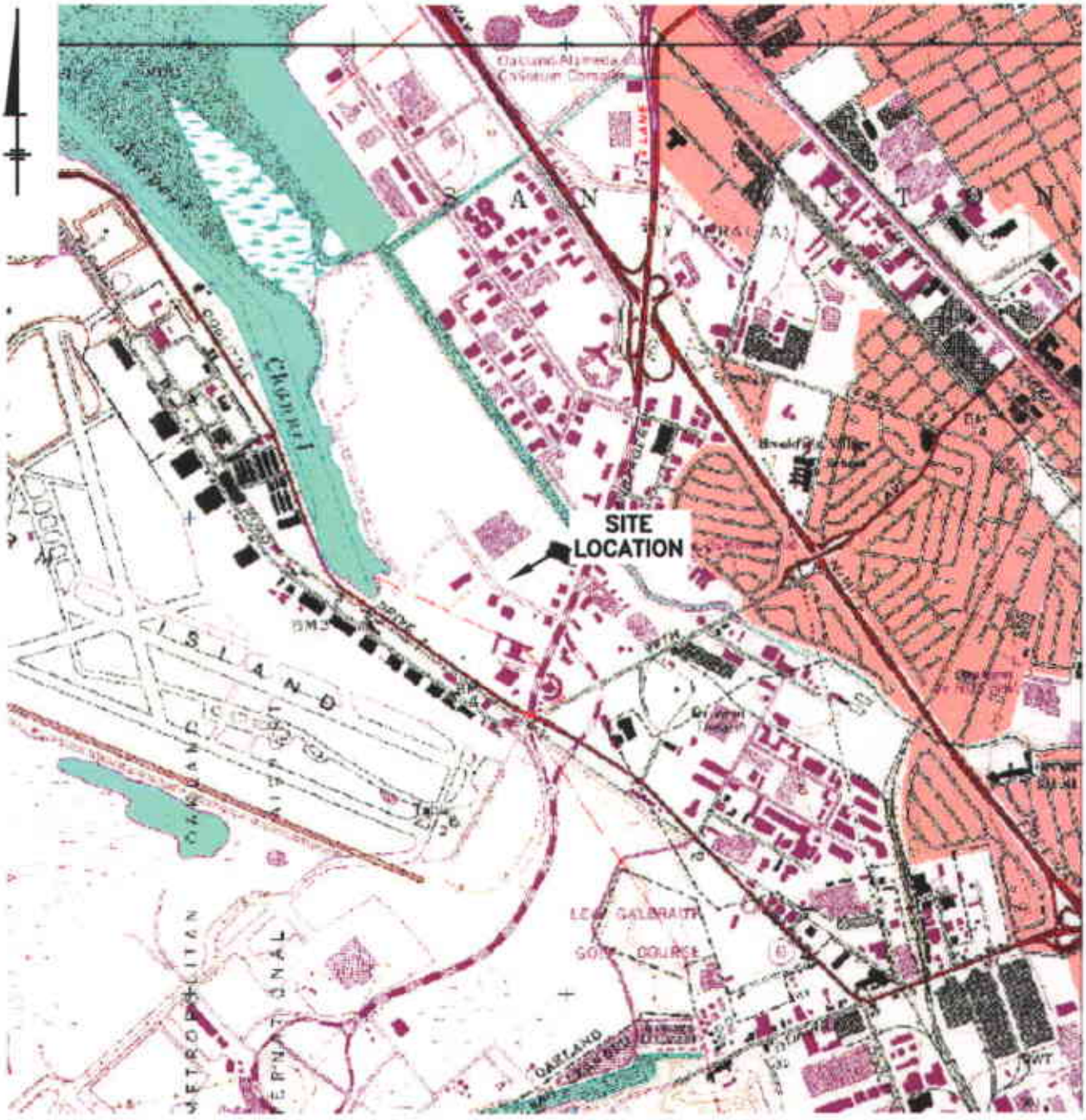

NOTES:

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'

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

TOPOGRAPHIC MAP OF SITE LOCATION AND VICINITY

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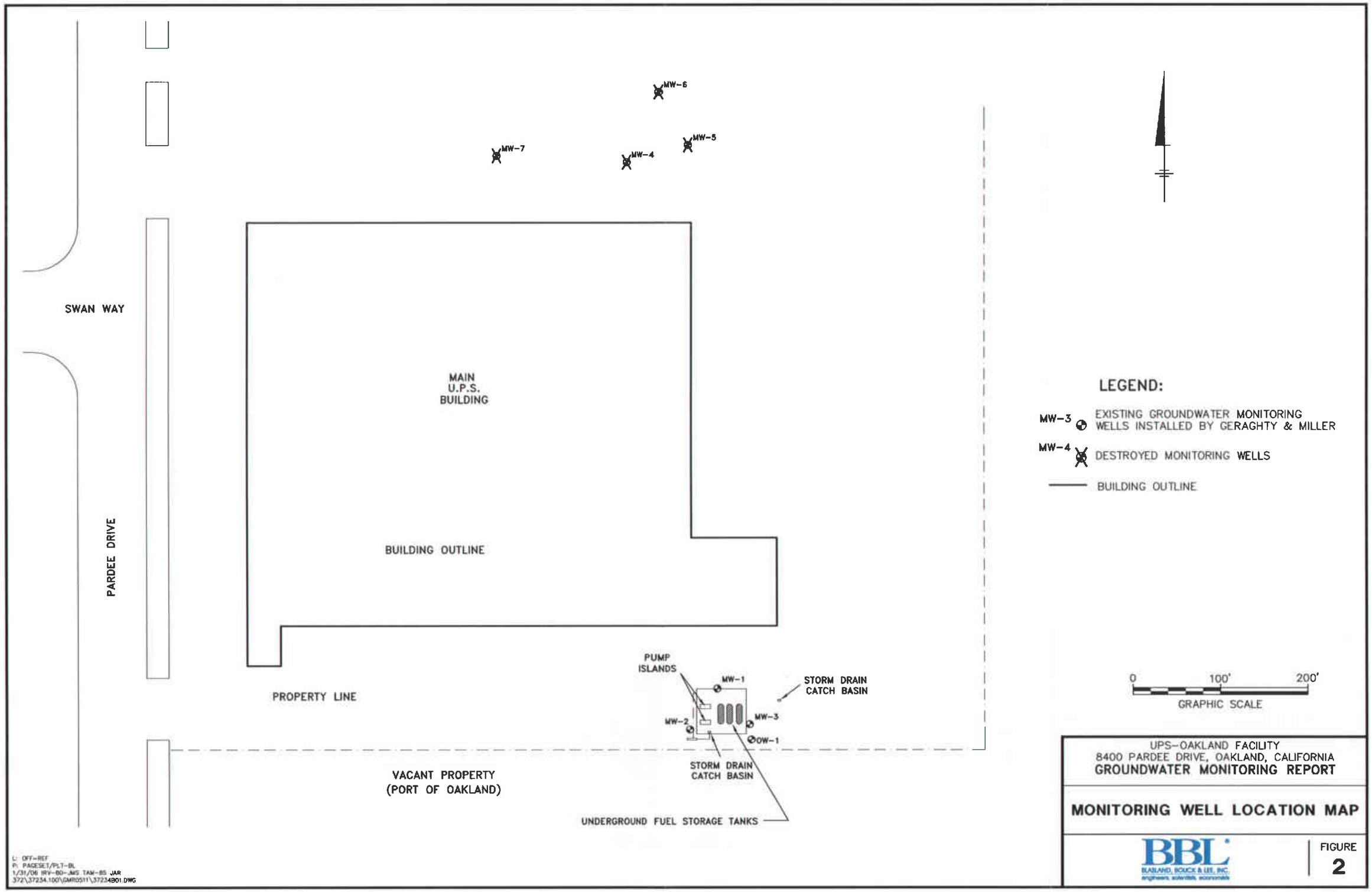
FIGURE
1

S: WEST-OAK.BMP
L: (LAYER)
P: PAGESET/PLT-AP1
1/31/06 RV-65 JMS TAM-65 JAR
372\37234.100\GMR0511\37234N01.DWG



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P: PAGESET/PLT-BL
1/31/06 IRV-BD-JMS TAM-BS JAR
372\37234.100\GMR0511\37234B01.DWG

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

MONITORING WELL LOCATION MAP

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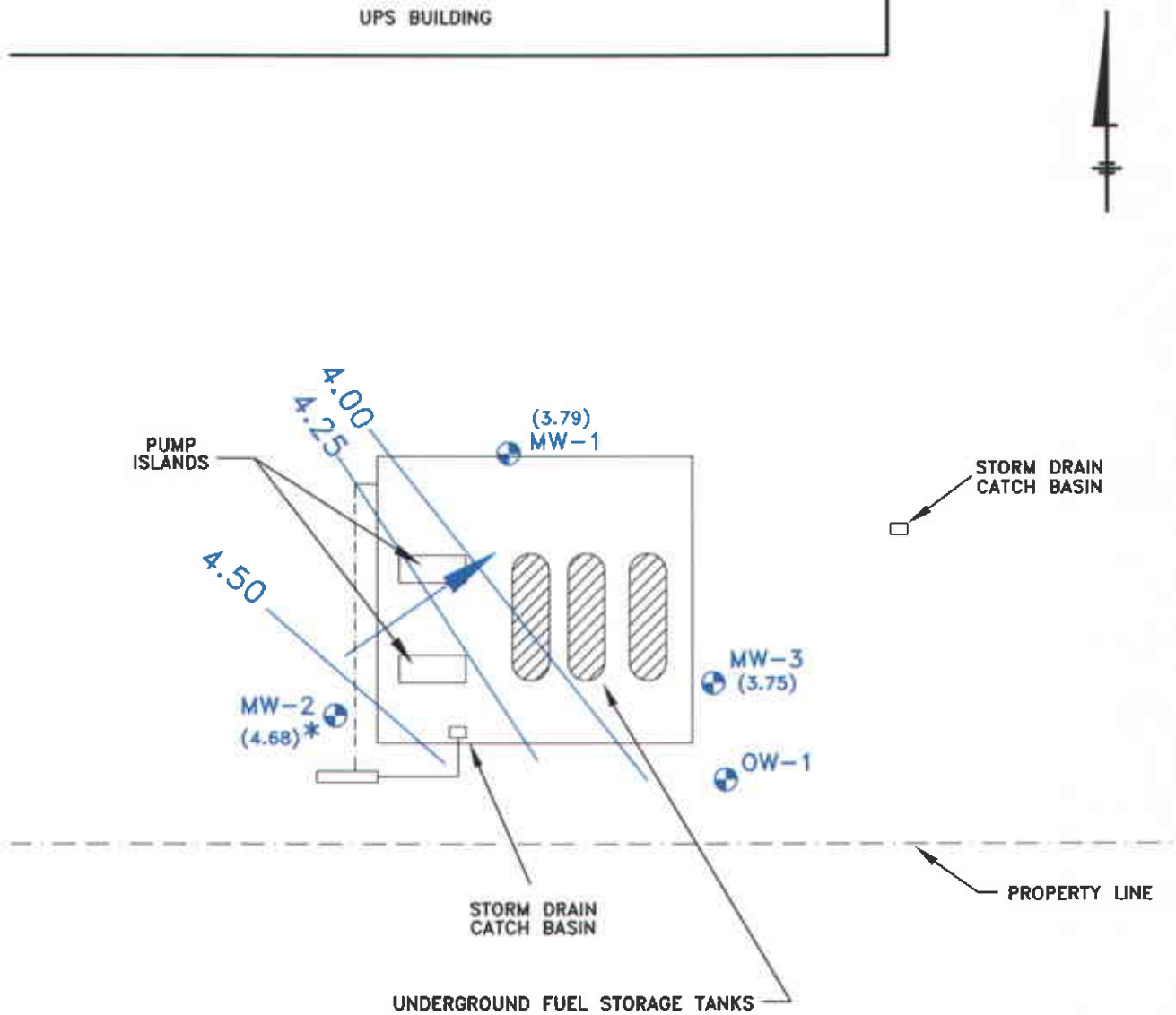
FIGURE
2



LEGEND:

MW-1 — GROUNDWATER MONITORING WELL

(3.75) — GROUNDWATER TABLE ELEVATION (FEET ABOVE MSL)

4.00 — 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.

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

GROUNDWATER CONTOUR MAP NOVEMBER 29, 2005

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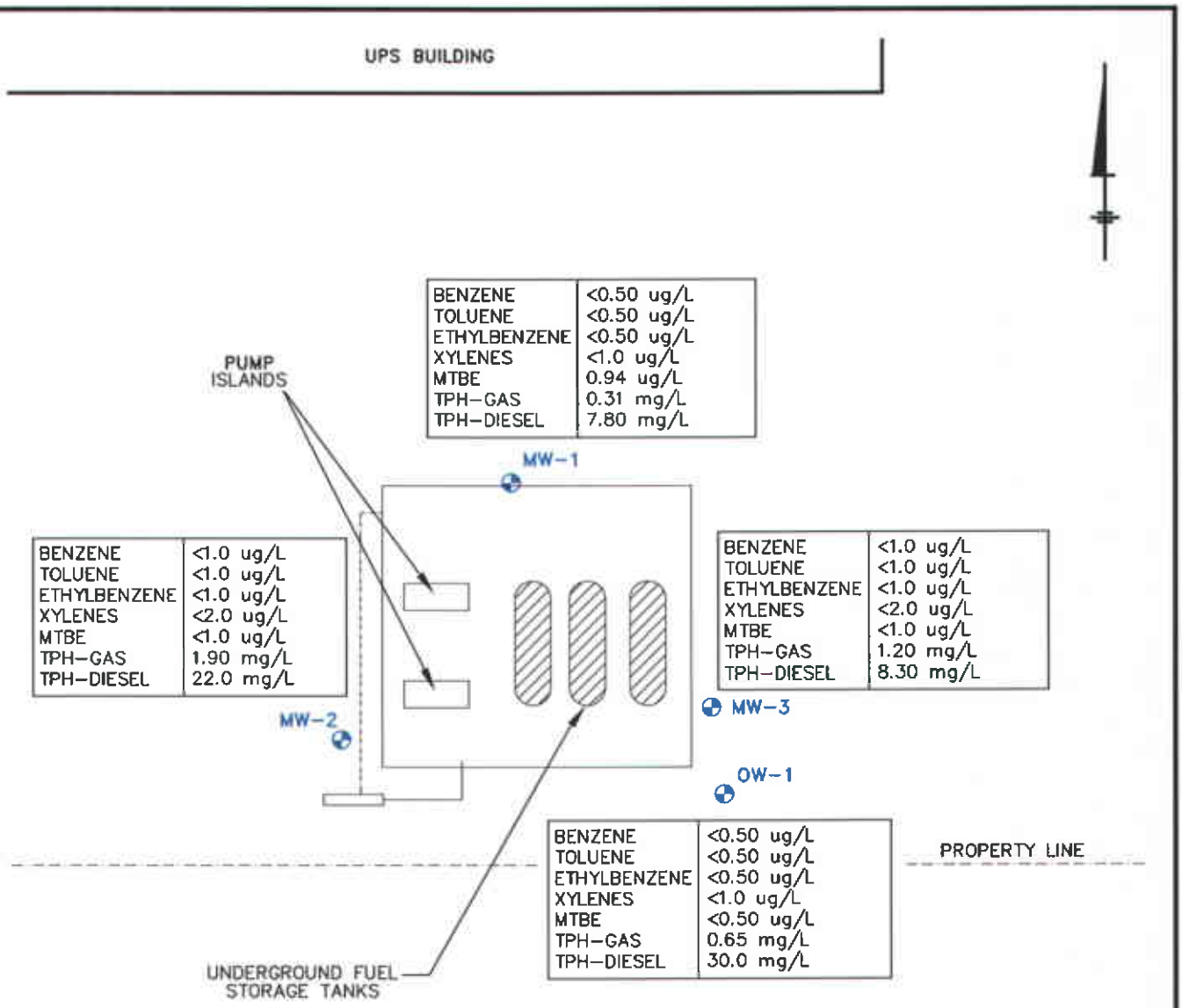
FIGURE 3

X: (XREF)
L: (LAYER)
P: PAGESET/PLT-AP1
1/31/06 IRV-80 JMS TAM-85 JAR
372\37234.100\GMR0511\37234N01.DWG



LEGEND:

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

ug/L MICROGRAMS PER LITER

mg/L MILLIGRAMS PER LITER

0 30' 60'

GRAPHIC SCALE

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

GROUNDWATER QUALITY MAP NOVEMBER 29, 2005

BLAKLAND, BOUCK & LEE, INC.
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FIGURE 4

X: (XREF)
L: (LAYER)
P: PAGESET/PLT-AP1
1/31/06 IRV-80 JMS TAM-85 JAR
372\37234.100\GMR0511\37234C01.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	–	0.00
		9/20/1990	3.99	3.44	-0.19	0.00
		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	0.00
		9/30/1999	3.75	3.68	N/A	0.00
		10/11/2000	3.88	3.55	-0.13	0.00
		9/3/2002	3.73	3.70	0.15	0.00
		10/22/2002	5.11	2.32	-1.38	0.05
		12/23/2002	3.51	3.92	1.60	0.00
		3/28/2003	3.52	3.91	-0.01	0.00
		6/20/2003	3.50	3.93	0.02	0.00
		7/14/2003	3.65	3.78	-0.15	0.00
		8/25/2003	3.87	3.56	-0.22	0.00
		9/9/2003	4.02	3.41	-0.15	0.00
		9/25/2003	4.10	3.33	-0.08	0.00
		10/28/2003	4.29	3.14	-0.19	0.00
		11/18/2003	4.32	3.11	-0.03	0.00
		12/2/2003	4.34	3.09	-0.02	0.00
		1/27/2004	3.88	3.55	0.46	0.00
		2/24/2004	2.75	4.68	1.13	0.00
		3/29/2004	3.45	3.98	-0.70	0.00
		4/19/2004	3.55	3.88	-0.10	0.00
		5/20/2004	3.69	3.74	-0.14	0.00
		6/22/2004	3.81	3.62	-0.12	0.00
		7/27/2004	3.99	3.44	-0.18	0.00
		8/24/2004	4.14	3.29	-0.15	0.00
		9/29/2004	4.32	3.11	-0.18	0.00
		10/25/2004	3.89	3.54	0.43	0.00
		12/15/2004	3.18	4.25	0.71	0.00
		1/24/2005	2.69	4.74	0.49	0.00
		2/23/2005	2.48	4.95	0.21	0.00
		3/23/2005	2.21	5.22	0.27	0.00
		4/29/2005	2.57	4.86	-0.36	0.00
		5/27/2005	2.68	4.75	-0.11	0.00
		6/29/2005	2.97	4.46	-0.29	0.00
		7/20/2005	3.13	4.30	-0.16	0.00
		8/24/2005	3.48	3.95	-0.35	0.00
		9/27/2005	3.69	3.74	-0.21	0.00
		10/19/2005	3.87	3.56	-0.18	0.00
		11/29/2005	3.79	3.64	0.08	0.00
		12/29/2005	3.08	4.35	0.71	0.00
		1/31/2006	2.91	4.52	0.17	0.00

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)
MW-2	7.15	8/28/1990	4.98	2.17	--	0.00
		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	--	--	0.25
		6/4/1997	6.02	1.13	N/A	Small globules
		9/30/1999	4.95	2.20	1.07	0.00
		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	0.00
		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	0.00
		6/22/2004	4.65	2.50	-0.12	0.00
		7/27/2004	4.80	2.35	-0.15	0.00
		8/24/2004	5.93	1.22	-1.13	0.00
		9/29/2004	5.00	2.15	0.93	0.02
		10/25/2004	4.68	2.47	0.32	0.00
		12/15/2004	4.34	2.81	0.34	0.02
		1/24/2005	4.15	3.00	0.19	0.00
		2/23/2005	4.95	2.20	-0.80	0.03
		3/23/2005	4.96	2.19	-0.01	0.02
		4/29/2005	4.23	2.92	0.73	0.10
		5/27/2005	4.20	2.95	0.03	0.02
		6/29/2005	4.29	2.86	-0.09	0.00
		7/20/2005	4.48	2.67	-0.19	0.04
		8/24/2005	4.71	2.44	-0.23	0.00
		9/27/2005	4.98	2.17	-0.27	0.03
		10/19/2005	5.08	2.07	-0.1	0.00
		11/29/2005	4.68	2.47	0.40	0.01
		12/29/2005	4.19	2.96	0.49	0.01
		1/31/2006	4.05	3.10	0.14	0.00

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
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-3	7.42	8/28/1990	3.88	3.54	--	0.00
		9/20/1990	3.99	3.43	-0.11	0.00
		6/19/1991	3.49	3.93	0.50	0.00
		7/23/1991	3.71	3.71	-0.22	0.00
		8/26/1991	3.94	3.48	-0.23	0.00
		11/18/1991	4.23	3.19	-0.29	0.00
		2/3/1992	4.01	3.41	0.22	0.00
		6/29/1992	3.40	4.02	0.61	0.00
		6/23/1993	2.75	4.67	0.65	0.00
		10/11/1993	3.84	3.58	-1.09	0.00
		1/4/1994	3.40	4.02	0.44	0.00
		5/10/1994	2.25	5.17	1.15	0.00
		2/1/1995	2.43	4.99	-0.18	0.00
		8/2/1995	3.20	4.22	-0.77	0.00
		10/16/1995	3.72	3.70	-0.52	0.00
		12/28/1995	3.56	3.86	0.16	0.00
		6/4/1997	3.20	4.22	0.36	0.00
		6/3/1998	NM	--	--	0.00
		9/30/1999	3.72	3.70	-0.52	0.00
		10/11/2000	3.88	3.54	-0.16	0.00
		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	0.00
		6/22/2004	3.83	3.59	-0.18	0.00
		7/27/2004	3.98	3.44	-0.15	0.00
		8/24/2004	4.14	3.28	-0.16	0.00
		9/29/2004	4.30	3.12	-0.16	0.00
		10/25/2004	3.85	3.57	0.45	0.00
		12/15/2004	3.16	4.26	0.69	0.00
		1/24/2005	2.65	4.77	0.51	0.00
		2/23/2005	2.50	4.92	0.15	0.00
		3/23/2005	2.48	4.94	0.02	0.00
		4/29/2005	2.59	4.83	-0.11	0.00
		5/27/2005	2.75	4.67	-0.16	0.00
		6/29/2005	3.05	4.37	-0.30	0.00
		7/20/2005	3.10	4.32	-0.05	0.00
		8/24/2005	3.45	3.97	-0.35	0.00
		9/27/2005	3.71	3.71	-0.26	0.00
		10/19/2005	3.73	3.69	-0.02	0.00
		11/29/2005	3.75	3.67	-0.02	0.00
		12/29/2005	3.08	4.34	0.67	0.00
		1/31/2006	2.99	4.43	0.09	0.00

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	NC	--	0.01
		9/30/1999	8.35	NC	1.13	0.01
		10/11/2000	6.90	NC	-1.45	0.09
		10/22/2002	7.34	NC	0.44	0.01
		9/27/2002	7.02	NC	-0.32	0.14
		12/23/2002	5.17	NC	-1.85	0.03
		1/16/2003	4.97	NC	-0.20	0.01
		2/12/2003	5.23	NC	0.26	0.01
		3/28/2003	5.16	NC	-0.07	0.01
		6/20/2003	4.93	NC	-0.23	0.01
		7/14/2003	5.33	NC	0.40	0.00
		8/28/2003	5.85	NC	0.52	0.00
		9/9/2003	6.33	NC	0.48	0.00
		9/25/2003	6.52	NC	0.19	0.01
		10/28/2003	7.26	NC	0.74	0.03
		11/18/2003	7.29	NC	0.03	0.00
		12/2/2003	7.23	NC	-0.06	0.03
		1/27/2004	7.96	NC	0.73	0.01
		2/24/2004	6.26	NC	-1.7	0.02
		3/29/2004	6.08	NC	-0.18	0.02
		4/19/2004	6.29	NC	0.21	0.03
		5/20/2004	6.16	NC	-0.13	0.00
		6/22/2004	6.37	NC	0.21	0.00
		7/27/2004	5.67	NC	-0.7	0.04
		8/24/2004	6.81	NC	1.14	0.00
		9/29/2004	7.08	NC	0.27	0.04
		10/25/2004	6.74	NC	-0.34	0.04
		12/15/2004	5.33	NC	-1.41	0.01
		1/24/2005	3.98	NC	-1.35	0.00
		2/23/2005	3.44	NC	-0.54	0.01
		3/23/2005	3.34	NC	-0.1	0.02
		4/29/2005	6.89	NC	3.55	0.13
		5/27/2005	7.18	NC	0.29	0.11
		6/29/2005	7.12	NC	-0.06	0.10
		7/20/2005	7.20	NC	0.08	0.10
		8/24/2005	7.15	NC	-0.05	0.06
		9/27/2005	7.43	NC	0.28	0.12
		10/19/2005	7.48	NC	0.05	0.11
		11/29/2005	7.00	NC	-0.48	0.04
		12/29/2005	5.22	NC	-1.78	0.00
		1/31/2006	5.64	NC	0.42	0.00

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
	11/29/2005	< 0.50	< 0.50	< 0.50	<1.0	0.94	0.31	7.80	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
	11/29/2005	<1.0	<1.0	<1.0	<2.0	<1.0	1.90	22.0	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)
	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
MW-3	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
	11/29/2005	< 1.0	< 1.0	<1.0	< 2.0	< 1.0	1.20	8.30	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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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)
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	0.51	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
	11/29/2005	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	0.65	30.0	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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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.

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	9/27/05	10/19/05	11/29/05			
Number of drum(s) empty:						
Number of drum(s) 1/4 full:	1 (BTS)	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:			1			
Are the drum(s) properly labeled?	N	yes	Y			
Drum ID & Contents:	H2O	SPH + H2O →	→			
If any drum(s) are partially or totally filled, what is the first use date:						

- 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	9/27/05	10/19/05	11/29/05			
Number of drums empty:						
Number of drum(s) 1/4 full:	1	1	1			
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:			1			
Total drum(s) on site:	1 (BTS)	1	2			
Are the drum(s) properly labeled?	yes	yes	Y			
Drum ID & Contents:	SPH+H2O →	→	→			

LOCATION OF DRUM(S)	
Describe location of drum(s):	see Map

FINAL STATUS						
Number of new drum(s) left on site this event	0	0	1			
Date of inspection:	9/27/05	10/19/05	11/29/05			
Drum(s) labelled properly:	Y	Y	Y			
Logged by BTS Field Tech:	MP	DW	SL			
Office reviewed by:						

WELLHEAD INSPECTION CHECKLIST

Date 11-29-05 Client BB + L

Site Address 8400 Pardee Drive Oakland

Job Number 051129-DW-4 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 loose missing 1 of 2 bolts

WELL GAUGING DATA

Project # 051129-DW-1 Date 11-29-05 Client BB&L

Site 8400 Pardee Dr

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					3.79	14.00		
MW-2	4	Sheen	4.67	.01	25ml	4.68	14.40		
MW-3	4					3.75	14.51		
DW-1	5		6.96	.04	153	7.00	18.40		

10.21

WELL MONITORING DATA SHEET

Project #: 051129-DW-4	Client: BB+L
Sampler: DW	Date: 11-29-05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.07	Depth to Water (DTW): 3.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

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

1 Case Volume	Specified Volumes	Calculated Volume
6.6 (Gals.) X	3	= 19.8 Gals.

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
12.46	64.3	6.53	1067	42	6.6	clear
12.48	69.3	6.55	1920	30	13.2	clear
12.50	70.1	6.58	1900	23	19.8	clear

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

Sampling Date: 11-29-05 Sampling Time: 12.55 Depth to Water:

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 #: 051129-DW-4	Client: BB+L
Sampler: DW	Date: 11-29-05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.40	Depth to Water (DTW): 4.68
Depth to Free Product: 4.67	Thickness of Free Product (feet): .01
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; X Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

1 Case Volume		Specified Volumes		Calculated Volume
6.3	(Gals.) X	3	=	18.9 Gals.

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
1334	No parameters b/c sheen				6.3	heavy sheen
well dewatered @ 9.92					DTW = 12.78	
1435	No parameters due to sheen				-	sheen
	Bailed	25 ml	SPH before purging well			

Did well dewater? (Yes) No Gallons actually evacuated: 9.92 L

Sampling Date: 11-29-05 Sampling Time: 1435 Depth to Water: 5.92

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 #: 051129-DW-4	Client: BB+L
Sampler: DW	Date: 11-29-05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 14.51	Depth to Water (DTW): 3.75
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; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

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

7.0 (Gals.) X 3 = 21 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
1317	69.3	6.55	2334	146	7	
well dewatered @				897		DTW= 10.88
1604	68.5	6.6	1934	44	-	DTW 23.8'

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

Sampling Date: 11-29-05 Sampling Time: 1604 Depth to Water:

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 #: 051129-OW-4	Client: BB+L
Sampler: DW	Date: 11-29-05
Well I.D.: OW-1	Well Diameter: 2 3 4 6 8 (5)
Total Well Depth (TD): 18.40	Depth to Water (DTW): 7.00
Depth to Free Product: 6.96	Thickness of Free Product (feet): .04
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; X Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

11.6 (Gals.) X 3 = 34.8 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
1407	No parameters taken due to sheen				11.6	Heavy sheen
	well dewatered @ 13 gl. DTW=				17.00	
1448						
	Bailed		153 ml SPH prior to purging			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 11-29-05 Sampling Time: 1448 Depth to Water: 11.37

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

WELL GAUGING DATA

Project # 051229-OW-3 Date 12-29-05 Client BB+L

Site 8400 Pardee Dr 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			0		3.08	—		
MW-2	4		4.18	.01	25	4.19	—		
MW-3	4			0		3.08	—		
OW-1	5	Sheen		0		5.22	—		

WELL MONITORING DATA SHEET

Project #: 051229-QW-3	Client: BB+L
Sampler: DW	Date: 12-29-05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 3.08
Depth to Free Product:	Thickness of Free Product (feet): 0
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: _____

_____ (Gals.) X	Check SPH	= _____ 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
		No	SPH detected			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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 #: 051229-QW-3	Client: BB+L
Sampler: DW	Date: 12-29-05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 4.19
Depth to Free Product: 4.18	Thickness of Free Product (feet): .01
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; X Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

_____(Gals.) X Check SPH = _____ 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
			Bailed 25 ml SPH from well			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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 #: 051229-QW-3	Client: BB+L
Sampler: DW	Date: 12-29-05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): -	Depth to Water (DTW): 3.08
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: _____

_____(Gals.) X Check SPH = _____ 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
		No SPH detected				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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 #: 051229-OW-3	Client: BB+L
Sampler: DW	Date: 12-29-05
Well I.D.: OW-1	Well Diameter: 2 3 4 6 8 (5)
Total Well Depth (TD): —	Depth to Water (DTW): 5.22
Depth to Free Product:	Thickness of Free Product (feet): 0
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:_____

_____(Gals.) X check SPH = _____ 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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
		No	SPH detected. Sheen			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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

WELLHEAD INSPECTION CHECKLIST

Date 12-29-05 Client BB+L

Site Address 8400 Pardee Drive Oakland

Job Number 051229-QW-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							
QW-1		1 bolt missing. Rim loose						

NOTES:

WELL GAUGING DATA

Project # 060131-DW-4 Date 1-31-16 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		No SPH	detected	0	2.91	-		
MW-2	4	Sheen.	No SPH	detected	0	4.05	-		
MW-3	4		No SPH	detected	0	2.99	-		
DW-1	5	Sheen.	No SPH	detected	0	5.64	-	↓	

WELL MONITORING DATA SHEET

Project #: 060131-DW-4	Client: BB+L
Sampler: DW	Date: 1-31-06
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 2.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column 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

_____ (Gals.) X check SPH = _____ 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
	No SPH detected.					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other

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 #: 060131-DW-4	Client: BB+L
Sampler: DW	Date: 1-31-06
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 4.05
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:_____

_____(Gals.) X check SPH = _____ 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
		No	SPH detected. Sheen.			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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 #: 060131-DW-4	Client: BB&L
Sampler: DW	Date: 1-31-06
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 2.99
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:

_____(Gals.) X check SPH = _____ 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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
		No SPH detected.				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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 #: 060131-OW-4	Client: BB+L
Sampler: DW	Date: 1-31-06
Well I.D.: OW-1	Well Diameter: 2 3 4 6 8 (5)
Total Well Depth (TD): —	Depth to Water (DTW): 5.64
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:

_____(Gals.) X check SPH = _____ 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
			No SPH	detected.	Sheen	

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other_____

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

ANALYTICAL REPORT

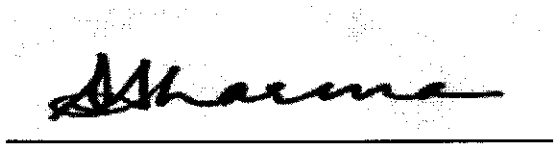
Job Number: 720-736-1

Job Description: UPS-Oakland

For:

Blasland, Bouck & Lee, Inc. (BBL)
975 Cobb Place Blvd NW
Suite 311
Kennesaw, GA 30144-4817

Attention: Mr. Hugh B. Devery



Dimple Sharma
Project Manager I
dsharma@stl-inc.com
12/07/2005

cc: Mr. Robert Rogero
Ms. Lisa Taylor

METHOD SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Organic Compounds in Water by Microextraction	STL-SF		SW846 3511

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-736-1	MW-1	Water	11/29/2005 1255	12/01/2005 1248
720-736-2	MW-2	Water	11/29/2005 1435	12/01/2005 1248
720-736-3	MW-3	Water	11/29/2005 1604	12/01/2005 1248
720-736-4	OW-1	Water	11/29/2005 1448	12/01/2005 1248

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: **MW-1**

Lab Sample ID: 720-736-1
Client Matrix: Water

Date Sampled: 11/29/2005 1255
Date Received: 12/01/2005 1248

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/03/2005 1718
Date Prepared: 12/03/2005 1718

Analysis Batch: 720-2562

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND	*	0.50
Ethylbenzene	ND		0.50
Toluene	ND	*	0.50
MTBE	0.94	*	0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	310		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	101	77 - 121
1,2-Dichloroethane-d4	87	73 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: MW-2

Lab Sample ID: 720-736-2 Date Sampled: 11/29/2005 1435
Client Matrix: Water Date Received: 12/01/2005 1248

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-2562 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: c:\saturnws\data\200512\12
Dilution: 2.0 Initial Weight/Volume: 10 mL
Date Analyzed: 12/03/2005 1740 Final Weight/Volume: 10 mL
Date Prepared: 12/03/2005 1740

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND	*	1.0
Ethylbenzene	ND		1.0
Toluene	ND	*	1.0
MTBE	ND	*	1.0
Xylenes, Total	ND		2.0
Gasoline Range Organics (GRO)-C5-C12	1900		100

Surrogate	%Rec	Acceptance Limits
Toluene-d8	101	77 - 121
1,2-Dichloroethane-d4	88	73 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: MW-3

Lab Sample ID: 720-736-3
Client Matrix: Water

Date Sampled: 11/29/2005 1604
Date Received: 12/01/2005 1248

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 12/03/2005 1802
Date Prepared: 12/03/2005 1802

Analysis Batch: 720-2562

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND	*	1.0
Ethylbenzene	ND		1.0
Toluene	ND	*	1.0
MTBE	ND	*	1.0
Xylenes, Total	ND		2.0
Gasoline Range Organics (GRO)-C5-C12	1200		100

Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	77 - 121
1,2-Dichloroethane-d4	86	73 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: OW-1

Lab Sample ID: 720-736-4 Date Sampled: 11/29/2005 1448
Client Matrix: Water Date Received: 12/01/2005 1248

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-2562 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: c:\saturnws\data\200512\12
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 12/03/2005 1823 Final Weight/Volume: 10 mL
Date Prepared: 12/03/2005 1823

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND	*	0.50
Ethylbenzene	ND		0.50
Toluene	ND	*	0.50
MTBE	ND	*	0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	650		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	102	77 - 121
1,2-Dichloroethane-d4	87	73 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: MW-1

Lab Sample ID: 720-736-1
Client Matrix: Water

Date Sampled: 11/29/2005 1255
Date Received: 12/01/2005 1248

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 10
Date Analyzed: 12/06/2005 1238
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	7800		500

Surrogate	%Rec		Acceptance Limits
o-Terphenyl	0	D	60 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: MW-2

Lab Sample ID: 720-736-2
Client Matrix: Water

Date Sampled: 11/29/2005 1435
Date Received: 12/01/2005 1248

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 10
Date Analyzed: 12/06/2005 1306
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	22000		500

Surrogate	%Rec		Acceptance Limits
o-Terphenyl	0	D	60 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: MW-3

Lab Sample ID: 720-736-3
Client Matrix: Water

Date Sampled: 11/29/2005 1604
Date Received: 12/01/2005 1248

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 10
Date Analyzed: 12/06/2005 1333
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	8300		500

Surrogate	%Rec		Acceptance Limits
o-Terphenyl	0	D	60 - 130

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Client Sample ID: OW-1

Lab Sample ID: 720-736-4
Client Matrix: Water

Date Sampled: 11/29/2005 1448
Date Received: 12/01/2005 1248

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 10
Date Analyzed: 12/06/2005 1401
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	30000		500

Surrogate	%Rec		Acceptance Limits
o-Terphenyl	0	D	60 - 130

DATA REPORTING QUALIFIERS

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits
GC Semi VOA		
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-2562				
LCS 720-2562/21	Lab Control Spike	Water	8260B	
LCSD 720-2562/20	Lab Control Spike Duplicate	Water	8260B	
MB 720-2562/22	Method Blank	Water	8260B	
720-714-A-1 MS	Matrix Spike	Water	8260B	
720-714-A-1 MSD	Matrix Spike Duplicate	Water	8260B	
720-736-1	MW-1	Water	8260B	
720-736-2	MW-2	Water	8260B	
720-736-3	MW-3	Water	8260B	
720-736-4	OW-1	Water	8260B	
GC Semi VOA				
Prep Batch: 720-2557				
LCS 720-2557/2-A	Lab Control Spike	Water	3511	
LCSD 720-2557/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-2557/1-A	Method Blank	Water	3511	
720-736-1	MW-1	Water	3511	
720-736-2	MW-2	Water	3511	
720-736-3	MW-3	Water	3511	
720-736-4	OW-1	Water	3511	
Analysis Batch:720-2701				
LCS 720-2557/2-A	Lab Control Spike	Water	8015B	720-2557
LCSD 720-2557/3-A	Lab Control Spike Duplicate	Water	8015B	720-2557
MB 720-2557/1-A	Method Blank	Water	8015B	720-2557
720-736-1	MW-1	Water	8015B	720-2557
720-736-2	MW-2	Water	8015B	720-2557
720-736-3	MW-3	Water	8015B	720-2557
720-736-4	OW-1	Water	8015B	720-2557

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 720-736-1

Method Blank - Batch: 720-2562

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2562/22
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2005 0948
Date Prepared: 12/03/2005 0948

Analysis Batch: 720-2562
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
MTBE	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	100	77 - 121
1,2-Dichloroethane-d4	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 720-736-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2562

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-2562/21
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2005 0905
Date Prepared: 12/03/2005 0905

Analysis Batch: 720-2562
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-2562/20
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2005 0926
Date Prepared: 12/03/2005 0926

Analysis Batch: 720-2562
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	101	95	69 - 129	5	25		
Toluene	105	100	70 - 130	5	25		
MTBE	106	102	65 - 165	4	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	102	106	77 - 121
1,2-Dichloroethane-d4	76	81	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 720-736-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-2562

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-714-A-1 MS	Analysis Batch: 720-2562	Instrument ID: Varian 3900A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200512\
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	12/03/2005 1338		Final Weight/Volume: 10 mL
Date Prepared:	12/03/2005 1338		

MSD Lab Sample ID:	720-714-A-1 MSD	Analysis Batch: 720-2562	Instrument ID: Varian 3900A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200512\1
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	12/03/2005 1400		Final Weight/Volume: 10 mL
Date Prepared:	12/03/2005 1400		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	82	87	69 - 129	6	20		
Toluene	84	87	70 - 130	4	20		
MTBE	85	94	65 - 165	10	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8	106	103	77 - 121
1,2-Dichloroethane-d4	82	81	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 720-736-1

Method Blank - Batch: 720-2557

Method: 8015B
Preparation: 3511

Lab Sample ID: MB 720-2557/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/05/2005 1650
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	107	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2557

Method: 8015B
Preparation: 3511

LCS Lab Sample ID: LCS 720-2557/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/05/2005 1407
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-2557/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/05/2005 1434
Date Prepared: 12/05/2005 0846

Analysis Batch: 720-2701
Prep Batch: 720-2557
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	74	69	60 - 150	7	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	99	99	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

720 - 736

BLAINE
TECH SERVICES, INC.

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

CHAIN OF CUSTODY BTS # 051129-DW-4

CLIENT: Blasland, Bouck, & Lee, Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB: STL 57542 DHS #

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

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=H_2O	CONTAINERS TOTAL		C	TPH-Gro, BTEX, MTBE (8260)	TPH-D (8015)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	11/29/5	12.55	W	6	HCL VOAs NP VOAs		X	X				
MW-2	"	14.35	"	6	"		X	X				
MW-3	"	16.04	"	6	"		X	X				
OW-1	"	14.48	"	6	"		X	X				

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SAMPLING COMPLETED DATE 11/29/05 TIME 1530 SAMPLING PERFORMED BY Sharon + Drew

RESULTS NEEDED NO LATER THAN As contracted

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
R.S. Clare	11/29/5	17.15	SAMPLE CUSTODIAN	11/29/05	17.15
SAMPLE CUSTODIAN	11/30/05	1205		11/30/05	1205
	11/30/05	17:30		11/30/05	1730

SHIPPED VIA | DATE SENT | TIME SENT | COOLER # | Temp. 2°C

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Blasland, Bouck & Lee, Inc. (BBL) Job Number: 720-736-1

Login Number: 736

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	