MACTEC

May 12, 2005

Project 4097041918 Task 01

Mr. David Blain
BPS Reprographic Services
945 Bryant Street
San Francisco, California 94103

Groundwater Remediation and Monitoring Report
First Quarter 2005
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Dear Mr. Blain:

MACTEC Engineering and Consulting, Inc., presents this quarterly status letter-report on the groundwater monitoring and remedial activities at the BPS Reprographic Services (BPS) facility located at 1700 Jefferson Street in Oakland, California (Plate 1). Information presented in this letter-report represents groundwater conditions at the subject site during the First Quarter 2005 (January through March), and was prepared to satisfy the quarterly groundwater monitoring requirements of the Alameda County Department of Health Care Services (ACHCS).

BACKGROUND

Three underground gasoline storage tanks were removed from the property in 1987 and a preliminary soil and groundwater investigation indicated that a release of fuel into the subsurface had occurred. Three groundwater-monitoring wells (MW-1, MW-2, and MW-3) were installed on the property to evaluate the distribution of petroleum hydrocarbons in the groundwater and to determine the direction of groundwater flow. Free phase hydrocarbon (FPH) was found in MW-1. Groundwater level measurements at that time indicated that the local groundwater gradient was in a north to northwest direction. Groundwater level measurements would later indicate the direction of the local groundwater gradient changing (to typically east to west or north to northwest).

In November 1987, monitoring well MW-2 was abandoned to facilitate the construction of the present BPS facility and, in January 1988, two additional wells, MW-1A and MW-4, were installed as groundwater extraction wells. MACTEC also installed one offsite monitoring well, MW-5, in August 1988 and a second offsite well, MW-6, in April 1996. The monitoring well locations are shown on Plate 1.

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In 1992, a groundwater extraction system was constructed at the site to remove FPH from the groundwater surface. Groundwater was extracted from MW-1A and MW-4 and passed through an oil-water separator that removed the FPH. The water was then drawn into a 3,000-gallon bioreactor tank for treatment by hydrocarbon reducing microbes. Air and nutrients were supplied to the water within the bioreactor to facilitate microbial growth. The treated water from the bioreactor was pumped in batches of approximately 500 gallons through three granular activated carbon vessels before discharge under a wastewater discharge permit from the East Bay Municipal Utility District to the sanitary sewer. The treatment system processed approximately 1,385,490 gallons of groundwater and an estimated 5,062 pounds of FPH were recovered.

By 1999, the oil-water separator was no longer recovering FPH and FPH was no longer present in any of the groundwater monitoring wells. Dissolved hydrocarbon concentrations were decreasing and MACTEC requested approval from the ACHCS to terminate groundwater extraction and to modify the remediation technique to in situ-bioremediation using an oxygen-releasing compound (ORC™). ORC™ is manufactured and distributed by Regenesis, Inc.; its purpose is to increase the concentration of dissolved oxygen (DO) in the groundwater and to augment the ability of naturally occurring microbial organisms in the groundwater to biodegrade the dissolved petroleum hydrocarbons. The ACHCS approved this plan in a letter dated September 28, 1999, following the submittal of an ORC™ calculation sheet and a Groundwater Monitoring Plan, dated September 23, 1999.

MACTEC implemented the in situ bioremediation technique by placing ORC™ in treatment wells: MW-1A, MW-3, MW-4, and MW-5 on September 29, 1999. The ORC™ is contained in fabric "socks" which release oxygen over time until the compound's oxygen releasing potential is depleted. MACTEC installed five socks in each treatment well at the approximate depth of the well's screened interval. As described in the Groundwater Monitoring Plan, the ORC™ socks are removed from the treatment wells two weeks before each quarterly groundwater monitoring event, then replaced after sampling is complete.

The Groundwater Monitoring Plan outlined procedures for groundwater sampling using a non-purge method approved by the Regional Water Quality Control Board in a letter dated January 31, 1997. The first quarter that the new Groundwater Monitoring Plan was implemented, sampling included duplicate sampling using both the purge and non-purge methods (see MACTEC's quarterly report, dated October 25, 1999).

During the Fourth Quarter 2002 groundwater monitoring event MACTEC removed the ORC™ socks from the treatment wells per a request from the ACHCS in a September 27, 2002 letter to BPS. The ACHCS suggested that contaminant concentrations may not be accurate due to the presence of the ORC™ socks and requested the socks be removed and DO allowed to return to back ground levels. Additionally, the ACHCS suggested in the same letter that the ORC™ socks appear to be ineffective as contaminant concentrations continue to be high in MW-1 and MW-5.

During the Fourth Quarter 2002 groundwater monitoring event MACTEC monitored groundwater monitoring MW-1, MW-3, MW-5 and MW-6 for tert Amyl Methyl Ether, Ethyl tert Butyl Ether,

Diisopropyl Ether, tert Butly Alcholol, Ethylene Dibromide, and Ethlene Dichloride (EDC) per a request from the ACHCS in the September 27, 2002 letter to BPS. Analytical results indicated none of these analytes were detected in any wells except EDC in MW-1 and MW-5. EDC is monitored in MW-1 and MW-5 quarterly now as required by the ACHCS.

During the ORC™ socks removal effort from MW-5 it was discovered that the socks were stuck. ORC™ socks can become stuck in monitoring wells when the well casing has become disturbed or bent. This can typically be caused by even minor seismic occurrences in the area of the well. The ORC™ socks remained stuck in MW-5 despite three removal attempts including attempts incorporating an industrial winch and tripod. An ORC™ sock removal effort was performed on September 17, 2003 utilizing a drill rig. The socks were successfully removed with no apparent damage to the monitoring well.

FIRST QUARTER 2005 GROUNDWATER SAMPLING AND ANALYSIS

On March 16, 2005, MACTEC conducted the quarterly groundwater monitoring of MW-1, MW-3, MW-5 and MW-6 (Plate 1) using the non-purge sampling method as described in the Enhanced Insitu-Bioremediation and Groundwater Monitoring Procedures letter dated August 17, 1999. The non-purge sampling method was re-evaluated as requested by the ACHCS in a letter dated September 27, 2002. After review of the evaluation data and analysis presented in the Second Quarter 2003 Groundwater Monitoring Report, the ACHCS approved non-purge sampling for use at the site in a letter dated February 13, 2004.

Table 1 shows groundwater parameters collected during sampling including DO concentrations. As described above, the ORC™ socks were removed from all treatment wells during the Fourth Quarter 2002 monitoring event per ACHCS request (except MW-5, ORC™ socks removed from this well September 17, 2003). The ORC™ socks were removed to allow the DO concentrations in each well to return to background levels. Prior to sampling during the First Quarter 2005 event, DO was monitored in each well. The DO concentrations ranged from 0.1 mg/L in MW-3 to 0.5 mg/L in MW-5 and MW-6. MACTEC will continue to monitor DO in these wells.

Prior to sampling, MACTEC measured the depth to groundwater from the top of casing (TOC) of wells MW-1, MW-3, MW-5 and MW-6 using an electronic water level indicator. These measurements are displayed on Table 2 and tabulated in Plate 2. As shown in Table 2 and on Plate 2, the groundwater surface elevation increased an average of 1.35 feet across the site as compared to last quarter's measurements. Using the groundwater elevations from MW-1, MW-3, MW-5 and MW-6 as measured on March 16, 2005, groundwater contours were created and are shown on Plate 3. Based on the groundwater elevations, the groundwater gradient is approximately 0.01 ft/ft. The direction of flow appears to be in the Southwesterly direction.

Groundwater elevation in MW-3 measured last quarter (4Q04) was 3.06 feet above mean sea level (MSL) which was apparently an error in measurement as discussed in the Fourth Quarter 2004 Groundwater Monitoring Report. Groundwater elevation in MW-3 measured during the First Quarter

2005 monitoring event was 8.07 feet MSL and is typical with respect to historical groundwater elevations in this well. MACTEC will continue to pay close attention to depth to water measurements in this well during future groundwater monitoring events.

Immediately after sample collection, MACTEC labeled and stored the samples in a cooler with ice. The groundwater samples were kept chilled until submitted to Sequoia Analytical Laboratory (Sequoia), a California state-certified laboratory (CA ELAP Certificate #2374), under chain-of-custody protocol for the following analyses:

- Total petroleum hydrocarbons as gasoline (TPHg) in accordance with EPA Method 8015 modified.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) in accordance with EPA Method 8020.
- Methyl tertiary butyl ether (MTBE) in accordance with EPA Method 8020 with confirmation of detections by EPA Method 8260.
- Ethylene Dichloride (EDC) by EPA Method 8260.

Historical analytical results for TPH-g, BTEX and MTBE collected through September 29, 1999 are shown on Table 3. First Quarter 2005 analytical results for TPH-g, BTEX, MTBE and EDC are displayed on Plate 4. Analytical results collected since September 29, 1999 are shown on Table 4 and presented graphically on Plate 5. Analytical results for Tert-amyl methyl ether (TAME), Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), Ethylene Dibromide (EDB), Ethyl tert Butyl Ether (ETBE) and EDC are displayed on Table 5. The certified analytical reports (CARs) are presented in Appendix A.

DISCUSSION

As shown on Table 4 and Plate 5, First Quarter 2005 monitoring event concentrations of TPH-g and BTEX appear generally the same in all wells compared to Fourth Quarter 2004 data with the exception of MW-3. Concentrations in the remaining wells are within the wells historical fluctuation ranges respectively. These results are discussed further below.

As shown on Table 4 and Plate 5, significant spikes in TPH-g and BTEX concentrations occurred in MW-1 during the Second Quarter 2003 monitoring event. Since that event, concentrations appear to be trending down and significant reductions in these analytes have occurred as demonstrated by the First Quarter 2005 monitoring event.

Similarly, significant spikes in TPH-g and TEX concentrations occurred in MW-3 during the Second Quarter 2003 monitoring event and a significant spike in Benzene in MW-3 occurred during the First Quarter 2003 monitoring event. Except for the spike in benzene concentration detected Fourth Quarter 2004 overall concentrations in MW-3 appear to be trending down since the Second Quarter 2003. First Quarter 2005 TPH-g and BTEX concentrations in MW-3 were reduced significantly since the Fourth Quarter 2004. TPH-g in MW-3 reduced to 0.97 mg/L from 3.9 mg/L, Benzene reduced to 1.4 ug/L from

340 ug/L, Toluene reduced to 1.8 ug/L from 37 ug/L, Ethylbenzene reduced to 0.66 ug/L from 11 ug/L and Total Xylenes reduced to 2.9 ug/L from 60 ug/L.

Significant spikes in TPH-g and BTEX concentrations occurred in MW-5 during the Third Quarter 2003 monitoring event. Since that event, TPH-g and BTEX concentrations appeared to be trending down until the Third Quarter 2004. The Third Quarter 2004 monitoring data indicated that TPH-g and BTEX concentrations increased significantly and were approaching high concentration levels monitored during the Third Quarter 2003. TPH-g and BTEX concentration data collected since the Third Quarter 2004 event including the First Quarter 2005 event have remained close to Third Quarter 2004 concentrations.

TPH-g and Total Xylenes were detected in MW-6 during the Fourth Quarter 2004 monitoring event at very low concentrations approaching the each analytes detection limit respectively. This well typically has no detectable TPH-g or BTEX concentrations. First Quarter 2005 monitoring data indicates no concentrations of TPH-g or BTEX compounds were detected in this well. MW-6 will continue to be monitored for these analytes.

As shown on Table 4, MTBE remains non-detectable in all wells.

The following show the range of monitored data for the First Quarter 2005 event as shown on Table 4:

TPH-g ranged from non-detectable [with a detection limit of 0.05 (MW-6)] to 37mg/l (MW-5). Benzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 11,000 ug/L (MW-5). Toluene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 4,200 ug/L (MW-1). Ethylbenzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 1,100 ug/L (MW-5). Total Xylenes ranged non-detectable with a detection limit of 0.5 ug/L (MW-6) to 2,400 ug/L (MW-5). MTBE was not detected in samples from any of the groundwater monitoring wells this quarter with detection limits ranging from 2.5 ug/L (MW-6) to 120 ug/L (MW-5).

Analytical results for TAME, TBA, DIPE, EDB, ETBE and EDC are displayed on Table 5. As described in the ACHCS September 27, 2002 letter to BPS these analyses were performed per ACHCS request during the Fourth Quarter 2002 monitoring event. None of these analytes were detected in any of the groundwater samples collected from MW-1, MW-3, MW-5 and MW-6 except for EDC. EDC was detected in the samples collected from MW-1 at a concentration of 370 ug/L and MW-5 at a concentration of 220 ug/L. Per ACHCS direction, if any of these analytes were not detected during the Fourth Quarter 2002 monitoring event then the analyte does not need subsequent monitoring. Analysis for EDC was performed in groundwater samples from MW-1 and MW-5 during the First Quarter 2005 event. Concentrations of EDC in MW-1 and MW-5 remain within a similar range as previously detected. EDC was detected in the sample from MW-1 at a concentration of 190 ug/L, a slight increase from last quarter results of 180 ug/L. EDC was detected in the sample from MW-5 at a concentration of 610 ug/L, which is increased considerably from last quarter results of 290 ug/L.

RECOMMENDATIONS

MACTEC recommends continued groundwater monitoring at the Site. MACTEC recommends that BPS send a copy of this report to the following address:

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

While under contract to BPS, MACTEC will continue to provide quarterly groundwater monitoring and reporting as required by The County.

If you have any questions, please contact David S. Nanstad at (415) 278-2118.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

David S. Nanstad, REA
Project Engineer

Henry Lin, PE
Principal Engineer

4 copies submitted

Attachments: Table 1 – Groundwater Parameters
Table 2 – Groundwater Elevation Data
Table 3 – Historical Groundwater Monitoring Analytical Results - Using Purge Method
Table 4 – Groundwater Monitoring Analytical Results
Table 5 – Groundwater Monitoring Analytical Results – EPA Method 8260

Plate 1 – Site Map
Plate 2 – Groundwater Elevation Data
Plate 3 – Groundwater Contours
Plate 4 – TPH-g, BTEX, MTBE and EDC Concentrations in Groundwater
Plate 5 – BTEX and DO Results

Appendix A – Laboratory Reports
Appendix B – Groundwater Sampling Forms
Table B1. Sample Location/Sample Description Cross-Reference

DSN:/Cityblue/1Q05

Table 1.
Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Dissolved Oxygen (mg/L)	MW-1	MW-3	MW-5	MW-6
9/29/1999	2.9	1.7	0.4	1.8
11/5/1999	4.0	10.3	4.0	2.8
11/22/1999	1.8	2.4	2.0	3.2
1/28/2000	2.9	8.4	3.6	2.2
2/11/2000	2.5	2.3	1.8	3.5
5/12/2000	2.0	7.4	2.4	1.7
5/30/2000	1.9	2.6	1.8	3.2
9/1/2000	2.9	3.4	2.3	2.7
9/15/2000	2.0	1.8	2.2	3.8
11/9/2000	NA	5.0	5.3	NA
11/17/2000	3.1	4.2	3.4	6.0
3/15/2001	2.0	7.0	1.4	2.1
4/2/2001	1.0	0.8	2.0	1.0
6/1/2001	0.2	0.2	6.6	0.3
6/28/2001	0.3	0.6	0.5	0.7
8/16/2001	0.5	6.5	1.6	0.8
8/30/2001	0.3	0.4	0.2	0.5
12/14/2001	0.0	3.8	2.2	0.2
12/26/2001	0.2	0.3	0.2	0.2
4/10/2002	0.6	0.6	0.2	0.4
4/23/2002	0.3	0.4	0.9	0.5
6/3/2002	0.4	5.2	4.3	0.7
6/14/2002	0.3	0.3	0.4	0.3
8/5/2002	0.3	0.3	0.4	0.4
8/14/2002	0.3	0.3	0.4	0.6
12/6/2002	1.0	0.9	NA[2]	0.6
12/27/2002	0.9	1.0	NA[2]	1.2
4/1/2003	0.3	1.1	NA[2]	NA[1]
7/1/2003	7.7	7.7	NA[2]	7.2
9/24/2003	6.3	7.2	0.6	0.9
12/29/2003	0.2	0.3	0.6	0.6
5/18/2004	0.4	0.5	0.4	0.4
6/30/2004	0.4	0.7	0.5	1.1
9/23/2004	4.6	1.0	1.2	1.8
12/28/2004	0.4	0.2	0.3	4.3
3/16/2005	0.4	0.1	0.5	0.5
REDOX (mvolts)				
5/30/2000	-322	197	-128	203
9/15/2000	-269	3	-89	206
11/17/2000	64	178	296	230
4/2/2001	-194	26	-36	102
6/28/2001	-310	-283	-360	107
8/30/2001	NA[1]	NA[1]	NA[1]	NA[1]
12/26/2001	12	11	11	11
4/23/2002	3	62	-299	158
6/14/2002	0	245	-215	254
8/20/2002	-294	-315	-238	228
12/27/2002	-315	-357	NA[2]	-12
4/1/2003[b]	-82	-75	NA[2]	172
7/1/2003[b]	212	230	NA[2]	227
9/24/2003[b]	-166	-300	-183	50
12/29/2003[b]	-329	-198	-269	114
5/18/2004	-309	-189	-248	115
6/30/2004	-270	-343	-165	104
9/23/2004	-314	-284	-162	96
12/28/2004	-303	101	-110	127
3/16/2005	-36	-50	-162	177
Temperature (deg F)				
9/29/1999	67.0	72.6	67.7	73.8
11/22/1999	66.4	62.9	65.0	69.8
2/11/2000	61.3	63.2	62.0	68.5
5/30/2000	77.7	74.8	76.3	76.2
9/15/2000	64.4	64.3	64.7	67.0
11/17/2000	54.5	58.1	68.1	65.9
4/2/2001	63.5	64.9	66.2	66.4
6/28/2001	73.0	71.2	74.7	74.3
8/30/2001	74.8	77.6	78.3	78.7
12/26/2001	65.7	65.8	65.8	65.1
4/23/2002	64.4	69.8	37.1	71.6
6/14/2002	66.7	67.5	66.7	68.0
8/20/2002	64.6	67.6	66.2	68.0
12/27/2002	41.7	42.5	NA[2]	41.7
4/1/2003[b]	64.6	67.6	NA[2]	68.0
7/1/2003[ab]	79.4	80.3	NA[2]	81.9
9/24/2003[b]	65.1	67.1	65.7	68.5
12/29/2003[b]	65.0	67.5	67.1	68.0
5/18/2004	69.0	69.0	63.0	68.0
6/30/2004	65.8	68.0	69.1	70.0
9/23/2004	67.6	69.3	68.9	74.5
12/28/2004	60.3	60.4	59.2	62.6
3/16/2005	63.3	66.0	64.4	66.0

Table 1.
Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

pH	MW-1	MW-3	MW-5	MW-6
9/29/1999	8.4	8.5	8.4	8.4
11/22/1999	6.9	8.4	6.8	6.8
2/11/2000	6.8	6.9	6.8	6.7
5/30/2000	7.0	7.4	7.5	7.6
9/15/2000	7.1	7.5	6.8	6.6
11/17/2000	7.4	7.7	7.1	7.3
4/2/2001	7.0	6.6	7.1	7.0
6/28/2001	6.9	6.7	6.8	6.8
8/30/2001	7.9	7.9	7.9	8.4
12/26/2001	6.2	6.9	7.1	6.7
4/23/2002	6.9	7.0	6.9	6.9
6/14/2002	7.1	7.2	7.1	6.9
8/20/2002	NA[1]	6.9	NA[1]	6.9
12/27/2002	6.3	6.4	NA[2]	6.5
4/1/2003[b]	6.9	7.1	NA[2]	6.7
7/1/2003[b]	7.4	7.6	NA[2]	7.7
9/24/2003[b]	7.1	7.3	7.3	7.2
12/29/2003[b]	6.7	6.5	6.8	6.7
5/18/2004	6.7	6.5	6.7	6.5
6/30/2004	6.6	6.6	6.3	NA[1]
9/23/2004	6.7	6.6	6.5	6.5
12/28/2004	6.5	5.3	6.6	6.8
3/16/2005	6.3	5.7	5.8	6.2
Specific Conductance (µS/cm)				
9/29/1999	976	880	1,577	966
11/22/1999	1,004	1,500	1,352	1,038
2/11/2000	992	1,327	1,275	1,149
5/30/2000	845	1,020	758	924
9/15/2000	800	917	989	1,009
11/17/2000	785	970	742	886
4/2/2001	725	365	839	821
6/28/2001	1080	704	876	1021
8/30/2001	924	1015	975	931
12/26/2001	848	496	333	891
4/23/2002	922	601	848	977
6/14/2002	932	767	810	961
8/20/2002	1015	809	891	985
12/27/2002	956	791	NA[2]	903
4/1/2003[b]	1128	800	NA[2]	1021
7/1/2003[b]	1020	690	NA[2]	970
9/24/2003[b]	951	697	987	890
12/29/2003[b]	1143	396	993	934
5/18/2004	1060	692	922	1037
6/30/2004	1006	725	970	962
9/23/2004	1027	656	966	1007
12/28/2004	875	69	807	873
3/16/2005	899	69	831	872

Note:
Baseline dissolved oxygen measurement taken on 09/29/99, prior to initial installation of oxygen releasing compound

mg/l = milligrams per liter
mvolts = millivolts
deg F = degrees Fahrenheit
µS/cm = micro-ohms per centimeter
NA = Not Available
1 = indicates data not available due to equipment malfunction
2= not available due to ORC socks stuck in well on these dates
a = indicates dissolved oxygen and temperature readings collected on this date above typical range and should be considered suspect
b = indicates this data collected post purge

Table 2. Groundwater Elevation Data
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

	MW-1		MW-3		MW-5		MW-6		Average
	TOC Elev.	32.36	TOC Elev.	31.77	TOC Elev.	30.56	TOC Elev.	31.26	Change
Date	Water	Water	Water	Water	Water	Water	Water	Water	Since
Sampled	Level	Elevation	Level	Elevation	Level	Elevation	Level	Elevation	Preceding
3/6/1996	NM	--	24.79	6.98	23.53	7.03	NA	--	Quarter
6/11/1996	FP	--	25.60	6.17	23.78	6.78	25.16	6.10	-0.53
9/19/1996	FP	--	26.09	5.68	24.48	6.08	25.76	5.50	-0.60
12/23/1996	FP	--	FP	--	24.83	5.73	25.88	5.38	-0.23
3/27/1997	FP	--	FP	--	23.82	6.74	24.78	6.48	1.06
6/4/1997	26.41	5.95	25.11	6.66	23.92	6.64	24.60	6.66	0.04
9/26/1997	26.80	5.56	25.41	6.36	24.29	6.27	24.80	6.46	-0.32
12/22/1997	26.00	6.36	24.91	6.86	24.02	6.54	24.71	6.55	0.42
3/31/1998	26.06	6.30	24.05	7.72	22.78	7.78	23.75	7.51	0.75
6/18/1998	25.60	6.76	23.71	8.06	22.51	8.05	23.22	8.04	0.40
8/28/1998	25.45	6.91	23.70	8.07	22.74	7.82	22.23	9.03	0.23
12/2/1998	24.92	7.44	23.60	8.17	23.16	7.40	23.72	7.54	-0.32
3/10/1999	24.90	7.46	22.65	9.12	22.82	7.74	23.54	7.72	0.37
6/30/1999	25.53	6.83	23.07	8.70	22.41	8.15	23.04	8.22	-0.04
9/29/1999	24.23	8.13	23.03	8.74	22.81	7.75	23.42	7.84	0.14
11/22/1999	24.33	8.03	23.68	8.09	22.88	7.68	23.64	7.62	-0.26
2/11/2000	24.38	7.98	23.74	8.03	22.74	7.82	23.67	7.59	0.00
5/30/2000	23.57	8.79	22.97	8.80	21.73	8.83	22.82	8.44	0.86
9/15/2000	23.85	8.51	23.12	8.65	22.14	8.42	23.10	8.16	-0.28
11/16/2000	24.14	8.22	23.40	8.37	22.39	8.17	23.41	7.85	-0.28
4/2/2001	23.40	8.96	23.40	8.37	22.07	8.49	23.33	7.93	0.29
6/28/2001	23.58	8.78	23.17	8.60	22.15	8.41	23.15	8.11	0.04
8/30/2001	24.00	8.36	23.35	8.42	22.35	8.21	23.35	7.91	-0.25
12/26/2001	24.18	8.18	23.54	8.23	22.49	8.07	23.27	7.99	-0.11
4/23/2002	NA	NA	22.89	8.88	21.07	9.49	22.89	8.37	0.82
6/14/2002	23.41	8.95	22.85	8.92	21.80	8.76	22.81	8.45	-0.20
8/20/2002	23.85	8.51	23.11	8.66	22.14	8.42	23.15	8.11	-0.31
12/27/2002	24.10	8.26	23.34	8.43	*NA	*NA	23.41	7.85	-0.24
4/1/2003	23.75	8.61	22.90	8.87	*NA	*NA	23.16	8.10	0.35
7/1/2003	23.50	8.86	22.80	8.97	*NA	*NA	22.75	8.51	0.25
9/24/2003	23.82	8.54	23.15	8.62	22.21	8.35	23.16	8.10	-0.27
12/29/2003	24.07	8.29	23.45	8.32	22.56	8.00	23.47	7.79	-0.30
5/18/2004	23.64	8.72	22.98	8.79	21.85	8.71	22.87	8.39	0.55
6/30/2004	23.64	8.72	23.04	8.73	22.00	8.56	22.43	8.83	0.06
9/23/2004	23.98	8.38	23.32	8.45	22.36	8.20	23.30	7.96	-0.46
12/28/2004	24.07	8.29	28.71	3.06	22.42	8.14	23.42	7.84	-1.42
3/16/2005	23.80	8.56	23.70	8.07	22.11	8.45	23.60	7.66	1.35

Note: All measurements shown in feet.
TOC Elev. = top of casing elevation
NM = not monitored
FP = free product
-- = no data collected
NA = not available
* This data not available due to ORC socks stuck in well

Table 3. Groundwater Monitoring Analytical Results - Using Purge Method
8/1/1991 to 9/29/1999
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

TPHg (mg/L)	Date Sampled																									
	8/1/1991	9/30/1992	3/30/1993	1/13/1994	4/13/1994	6/29/1994	12/8/1994	4/3/1995	6/27/1995	9/19/1995	12/13/1995	3/6/1996	6/11/1996	9/19/1996	12/23/1996	3/27/1997	6/4/1997	9/26/1997	12/23/1997	3/31/1998	6/18/1998	8/28/1998	12/2/1998	3/10/1999	6/30/1999	9/29/1999[1]
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	68	59	41	44	32	26	26	26	18	21
MW-1A	350	FP	FP	FP	170	95	190	67	53	52	62	200	140	100	FP	66	54	73	66	51	50	15	41	10	18	NA
MW-3	74	FP	FP	FP	FP	39	4,600	51	20	6.2	19	7	16	6	FP	FP	85	47	32	32	16	17	3.2	9.6	7.9	5.0
MW-4	86	FP	FP	FP	58	16	92	35	13	14	11	110	260	95	FP	37	24	41	48	NA	25	48	10	11	8.8	NA
MW-5	120	51	74	80	63	64	59	51	41	50	45	51	48	48	45	44	35	36	39	48	17	16	15	23	7.7	11
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Benzene (µg/L)																										
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	2,200	6,000	6,800	8,300	1,100	8,600	9,200	8,200	7,000	9,200
MW-1A	17,000	FP	FP	FP	17,000	16,000	13,000	11,000	11,000	8,900	9,900	14,000	18,000	16,000	FP	12,000	11,000	10,000	10,000	9,100	11,000	1,100	8,500	2,300	6,400	NA
MW-3	1,600	FP	FP	FP	FP	3,200	1,500	1,100	270	70	220	120	170	45	FP	FP	8,500	610	640	690	180	84	39	86	31	120
MW-4	1,500	FP	FP	FP	1,500	1,300	1,700	1,200	1,300	2,200	630	2,600	6,600	9,900	FP	2,600	2,600	2,900	6,000	NA	2,000	9,700	1,700	2,300	1,800	NA
MW-5	20,000	13,000	16,000	19,000	14,000	29,000	13,000	15,000	12,000	1,600	13,000	15,000	12,000	12,000	12,000	11,000	8,900	7,900	13,000	10,000	9,500	5,400	8,400	14,000	5,200	9,600
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Toluene (µg/L)																										
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	14,000	4,500	3,000	3,000	3,700	3,800	2,300	4,300	5,900	5,800	10,000
MW-1A	31,000	FP	FP	FP	31,000	21,000	21,000	13,000	9,900	9,200	11,000	22,000	28,000	22,000	FP	15,000	12,000	16,000	16,000	11,000	15,000	830	11,000	1,900	7,800	NA
MW-3	4,600	FP	FP	FP	FP	2,900	4,200	2,300	550	140	480	170	270	30	FP	FP	13,000	6,000	5,300	3,800	1,500	1,100	85	540	330	340
MW-4	6,200	FP	FP	FP	2,500	790	4,100	3,400	1,600	2,100	470	3,600	19,000	19,000	FP	6,900	3,200	5,000	11,000	NA	460	11,000	610	2,100	3,000	NA
MW-5	14,000	5,900	5,000	8,200	3,500	5,400	3,800	2,200	2,100	2,700	2,100	2,800	2,900	4,500	2,200	1,100	560	270	500	400	310	160	120	300	270	710
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Ethylbenzene (µg/L)																										
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	1,500	1,600	1,400	1,100	550	730	820	870	950	1,200
MW-1A	3,000	FP	FP	FP	2,100	1,500	1,400	910	500	710	790	2,700	2,800	2,100	FP	1,400	1,000	1,400	1,400	1,100	870	31	720	1,600	660	NA
MW-3	670	FP	FP	FP	FP	580	6,000	580	190	68	140	49	68	15	FP	FP	2,400	930	800	870	490	430	25	250	200	230
MW-4	1,000	FP	FP	FP	520	51	310	280	77	110	14	780	3,700	2,000	FP	540	140	350	580	NA	ND(15)	890	ND(15)	88	150	NA
MW-5	1,900	1,400	1,800	1,400	1,500	2,800	1,800	2,800	1,400	2,000	16,000	2,000	2,000	2,300	2,700	1,900	1,500	1,500	1,900	2,000	420	1,100	1,500	1,800	1,100	1,100
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	0.5	ND(0.5)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Xylenes (µg/L)																										
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	11,000	8,600	6,600	4,300	3,000	2,100	2,800	3,500	2,500	5,500
MW-1A	22,000	FP	FP	FP	14,000	12,000	11,000	9,800	6,300	6,800	5,300	22,000	19,000	14,000	FP	100	7,200	8,500	12,000	6,800	5,800	3,000	6,700	2,300	4,100	NA
MW-3	4,300	FP	FP	FP	FP	4,300	95,000	4,800	1,700	500	1,700	440	1,500	300	FP	FP	16,000	5,900	5,900	5,200	3,700	3,800	360	2,300	1,800	1,300
MW-4	7,300	FP	FP	FP	3,200	3,400	5,400	5,800	1,800	2,100	1,800	10,000	28,000	13,000	FP	5,500	3,500	4,800	8,200	NA	6,400	5,000	2,300	1,600	2,700	NA
MW-5	4,900	2,600	2,700	2,700	2,100	4,500	2,900	4,500	1,600	2,100	1,900	2,400	2,700	4,000	6,500	2,800	1,700	1,300	1,700	2,200	850	900	840	1,100	690	1,100
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)
MTBE (µg/L)																										
MW-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FP	FP	ND(500)	ND(500)	300	420	ND(50)	ND(50)	ND(50)	ND(50)	ND(25)	ND(250)
MW-1A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,800	ND(500)	ND(500)	1,900	300	ND(50)	ND(50)	ND(50)	ND(50)	ND(25)	NA
MW-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FP	FP	ND(500)	ND(100)	ND(300)	350	ND(25)	ND(50)	ND(50)	ND(25)	ND(25)	10
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,400	ND(300)	ND(500)	270	NA	ND(50)	ND(50)	ND(50)	ND(25)	ND(25)	NA
MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	600	300	ND(100)	ND(500)	ND(1000)	350	ND(10)	ND(50)	ND(50)	ND(50)	ND(25)	ND(100)
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	NA	NA	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

TPHg = total petroleum hydrocarbons as gasoline
MTBE = methyl t-butyl ether
(mg/l) milligrams per liter
(µg/l) micrograms per liter

ND = Not detected above the reporting limit in parenthesis
NA = Not analyzed
FP = Free Product - well not sampled
-- = Well did not exist at date indicated

1 A sample was collected on this date both post and pre purge. Sample results collected pre purge are shown on Table 3.
Sample results collected post purge are shown on Table 4.

Table 4. Groundwater Monitoring Analytical Results
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

TPHg (mg/L)		9/29/1999[6]	11/22/1999	2/11/2000	5/30/2000	9/15/2000	11/16/2000	4/2/2001	6/28/2001	8/30/2001	12/26/2001	4/24/2002	6/14/2002	8/20/2002	12/27/2002	4/1/2003	7/1/2003[5]	9/25/2003[5]	12/29/2003[5]	5/18/2004	6/30/2004	9/23/2004	12/28/2004	3/16/2005
	MW-1	14	24	19	19	20	18	19	39	31	34	35	35	26	28	16	61	59	46	23	24	24	22	21
	MW-3	4.1	3.1	0.54	0.49	1.5	1.3	0.17	4.9	3.1	0.95	300	4.6	4.9	4	5.9	12	10	7.3	1.5	2.0	3.4	3.9	0.97
	MW-5	10	30	23	19	24	1.8	15	3.6	34	1.9	9.4	1.7	3.2	*6.2	NA[4]	NA[4]	43	26	15	18	42	41	37
	MW-6	ND<0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.066	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.059	ND<0.05
Benzene (µg/L)																								
	MW-1	6,200	4,900	4,100	5,700	4,100	3,500	4,700	5,200	5,600	5,300	4,900	5400	4100	4,500	4,500	7,700	7600	6600	4,100	3,500	3,800	3,400	4,100
	MW-3	180	6.5	8.3	11	28	20	9	150	42	8	11	130	330	110	370	200	150	160	77	81	140	340	1.4
	MW-5	14,000	11,000	12,000	9,900	3,800	470	7,400	300	8,300	300	2,300	110	320	*2200	NA[4]	NA[4]	12,000	7700	5,000	5,700	12,000	10,000	11,000
	MW-6	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.30	ND<0.30	ND<0.50	ND<0.50	3.6	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene (µg/L)																								
	MW-1	5,900	5,000	4,800	8,400	5,700	4,300	5,200	4,200	5,100	5,200	6,000	6,800	4700	5,000	6000	11,000	9400	7900	4,700	3,600	3,900	3,400	4,200
	MW-3	340	33	20	5.6	14	34	6.2	240	48	5.2	4.8	470	170	280	150	460	300	250	72	37	95	37	1.8
	MW-5	470	3,400	4,500	6,900	3,000	220	3,000	11	3,000	110	130	ND<2.5	8.6	*140	NA[4]	NA[4]	2800	1900	1,300	1,600	3,900	3,800	3,800
	MW-6	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.30	ND<0.30	2.9	ND<0.50	3.6	ND<0.50	ND<0.50	ND<0.50	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethylbenzene (µg/L)																								
	MW-1	620	730	530	730	540	640	570	660	560	630	740	870	620	660	680	1200	1000	960	450	390	470	380	470
	MW-3	130	27	2.4	0.45	2.6	25	1.4	38	26	1.1	0.72	91	40	57	44	130	120	79	19.00	34.0	36	11	0.66
	MW-5	1,100	1,500	1,200	1,200	460	39	1000	16	1,400	55	300	7.2	22	*160	NA[4]	NA[4]	1500	910	380	540	1,200	1,000	1,100
	MW-6	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.30	ND<0.30	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes (µg/L)																								
	MW-1	3,500	3,500	2,800	3,500	2,700	3,200	2,600	3,900	2,500	2,400	3,100	3500	2700	3,000	3100	6700	4800	4000	1,500	1,300	1,400	1,400	1,300
	MW-3	580	260	28	17	160	28	8.1	160	210	7	1.4	390	150	260	230	390	280	210	59	40	40	60	2.9
	MW-5	600	2,500	1,300	2,600	1,200	100	2,200	15	2,600	120	270	ND<2.5	19	*250	NA[4]	NA[4]	3000	210	770	1,200	2,400	2,300	2,400
	MW-6	ND<0.6	ND<0.6	ND<0.6	ND<0.6	ND<0.6	ND<0.60	ND<0.30	2.7	ND<0.50	8.7	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	ND<2.5	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5
MTBE (µg/L) (EPA Method 8020)																								
	MW-1	ND<250	ND<100	6.6	ND<5.0[1]	ND<12[1,2]	ND<40[1,2]	50[1]	8.5[1]	ND<100[1,2]	ND<120	ND<120	ND<250	ND<120	ND<120	ND<120	ND<250	ND<1200	ND<250	ND<50	ND<50	[1]ND<25	ND<250	ND<50[1]
	MW-3	14	ND<1.0	31	ND<5.0[1]	ND<5[1]	ND<5[1]	77[1]	ND<2[1]	ND<1.2[1]	ND<0.50[1]	ND<0.50[1]	ND<0.50[1]	ND<5[1]	19	ND<1.0[1]	ND<5[1]	ND<2.5[1]	ND<2.5[1]	ND<12	ND<1.0	[1]ND<10	ND<5[1]	ND<2.5
	MW-5	ND<100	ND<100	6.6	ND<200	ND<10[1,2]	ND<5[1]	ND<50[1]	4.4[1]	ND<50[1]	ND<10[1]	ND<50	ND<0.50[1]	ND<0.50[1]	*ND(25)	NA[4]	NA[4]	ND<1200	ND<2.5[1]	ND<50	ND<50	ND<120	ND<250	ND<120
	MW-6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5[1,3]	17[1]	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5

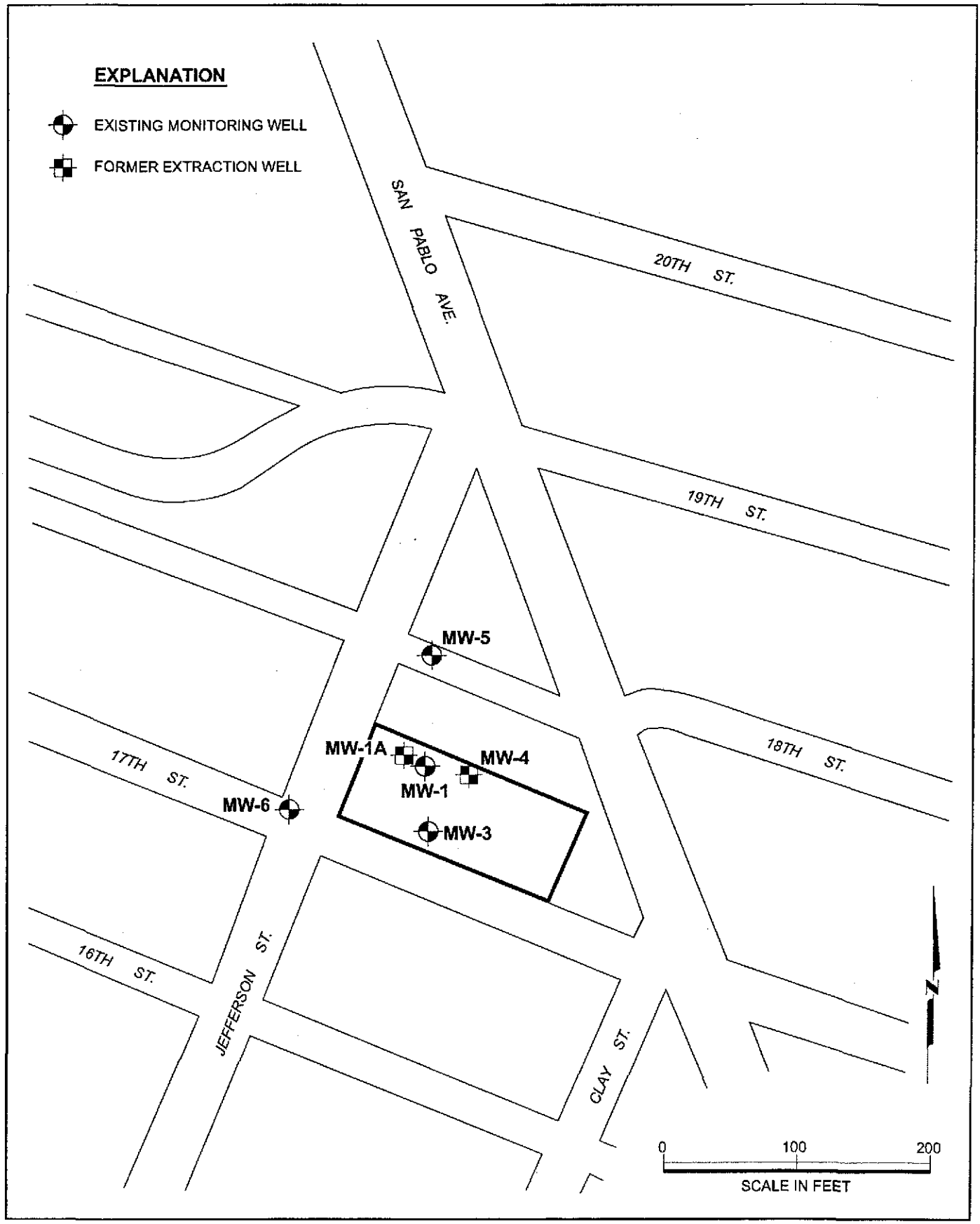
mg/L = milligrams per liter
µg/L = micrograms per liter
ND = Not detected above the reporting limit following the less than sign
NA = Not Available
MTBE = methyl t-butyl ether
1 Result of MTBE confirmation by EPA Method 8260.
2 Reporting limits elevated due to matrix interference.
3 Detection limit = 5 ug/L, backup sample analyzed after hold time had a result of ND<5 µg/l.
4 Data from April 1 and July 1, 2003 sampling event not available due to ORC sock obstruction in well (see report for details)
5 Samples collected post purge on this date, all other samples collected without purging (see report for details)
6 A sample was collected on this date both post and pre purge. The sample results collected post purge are shown on Table 3.

* = Fourth Quarter 2002 analytical data for MW-5 collected on January 3, 2003

Table 5. Groundwater Monitoring Analytical Results
EPA Method 8260
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

tert Amyl Methyl Ether (µg/L)	[1]12/27/2002	[2]4/1/2003	[2]7/1/2003	[2]9/25/2003	[2]12/29/2003	[1]5/18/2004	[1]6/30/2004	[1]9/23/2004	[1]12/28/2004	[1]3/16/2005
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethyl tert Butyl Ether (µg/L)										
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR	NR	NR	NR
Di-isopropyl Ether (µg/L)										
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR	NR	NR	NR
tert Butyl Alcohol (µg/L)										
MW-1	ND<5000	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<500	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<2000	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<20	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylene Dibromide (µg/L)										
MW-1	ND<120	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<50	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylene Dichloride (µg/L)										
MW-1	370	ND<120	400	[3]500	360	320	320	260	180	190
MW-3	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*220	[3]NA	[3]NA	610	410	290	610	670	290	610
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR

Notes:
Analytes shown on this table monitored per ACHCS requriement described in the September 27, 2002 letter to BPS from the ACHCS (see report text for details).
µg/l = micrograms per liter
NA = Not Applicable
ND = Not detected above the reporting limit
NR = Not Requried per ACHCS direction indicating if analyte not detected during 12/27/02 sampling event then the anayted does not need continued monitoring/MW-1 and MW-5 are the only wells currently sampled for Ethylene Dichloride (see report text for details)
* = Analytical data collected for MW-5 on January 3, 2003
a = EDC detected at same concentration as detecton limit
1 = Samples on this date collected without purging
2= Samples on this date collected post purge
3 = Data from April 1 and July 1, 2003 sampling event not available due to stuck ORC socks obstruckting well (see Report for details).

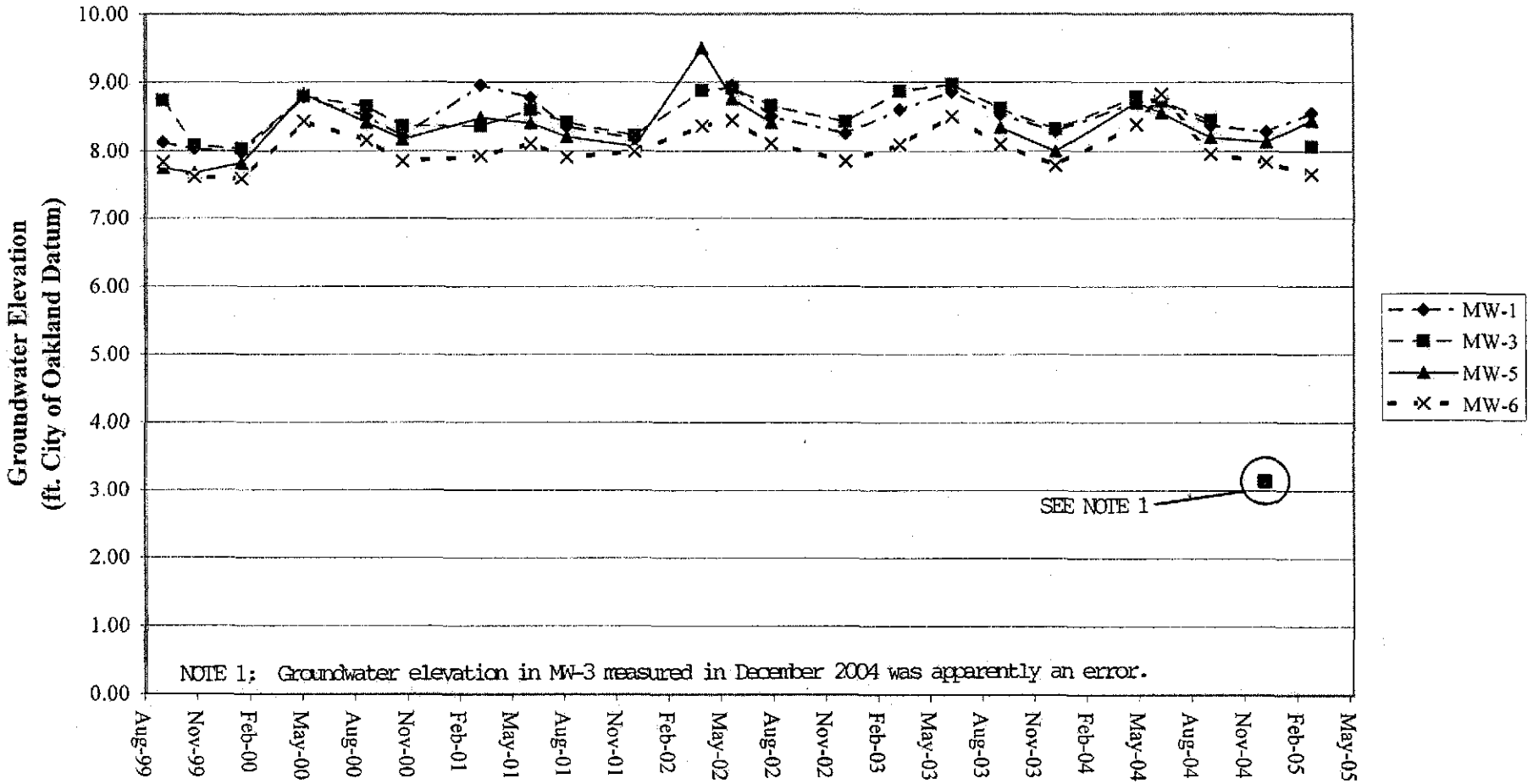


MACTEC

Site Map
First Quarter 2005
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE
1

DRAWN	PROJECT NUMBER	CHECKED	DATE	APPROVED	DATE
CN	4097041918 02		04/05		5-11-05



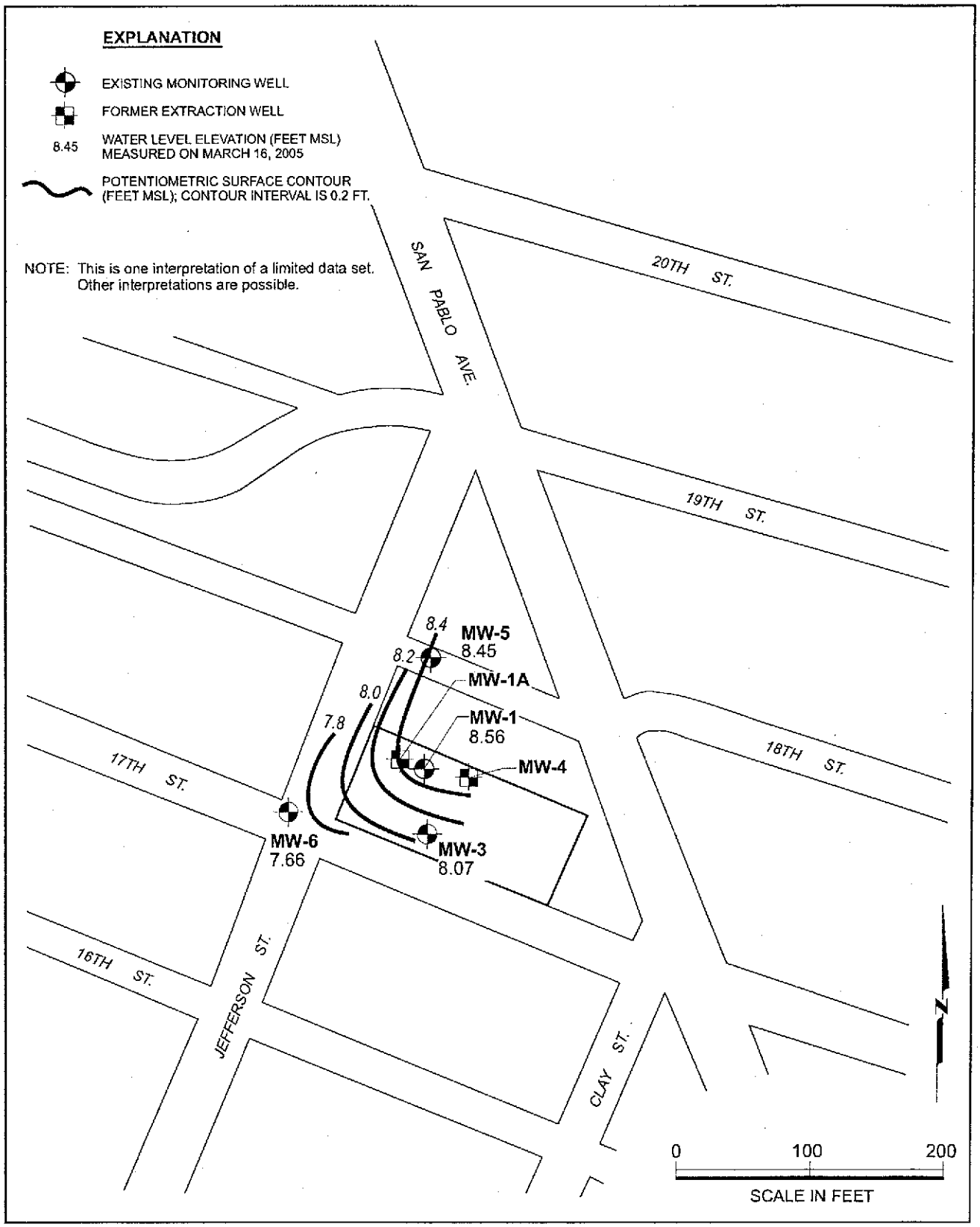
(ORC sock stuck in MW-5 from Dec. 2002 until Sep. 2003 - No groundwater elevations monitored in MW-5 during that time.)

MACTEC

Groundwater Elevation Data
First Quarter 2005
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4097041918		April-05	

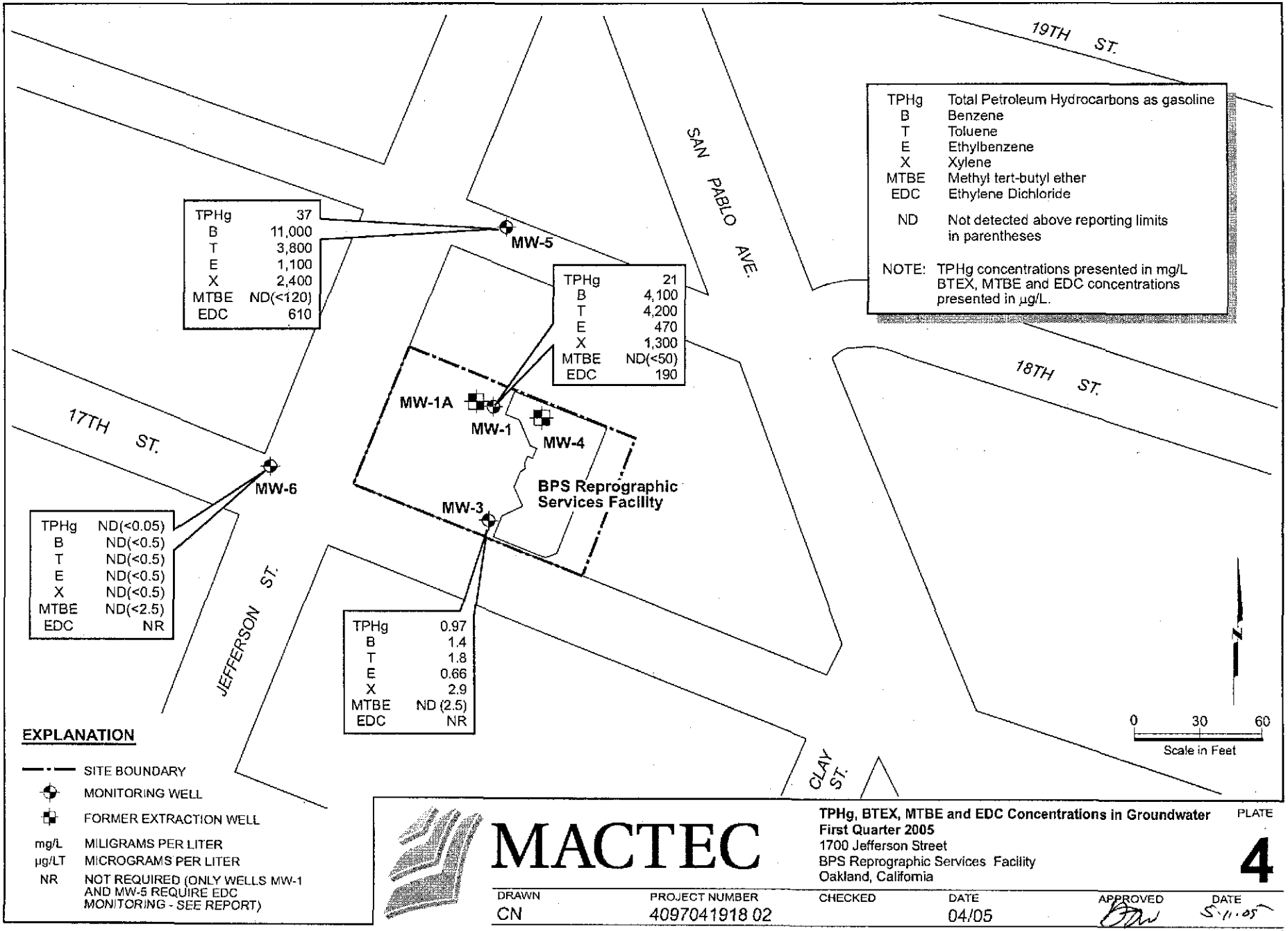


MACTEC

Groundwater Contours
First Quarter 2005
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE
3

DRAWN	PROJECT NUMBER	CHECKED	DATE	APPROVED	DATE
CN	4097041918 02		04/05		5/11/05



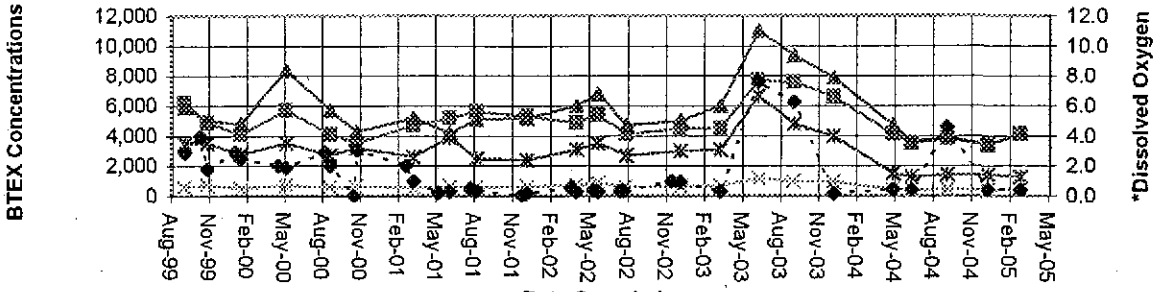
MACTEC

TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
First Quarter 2005
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE **4**

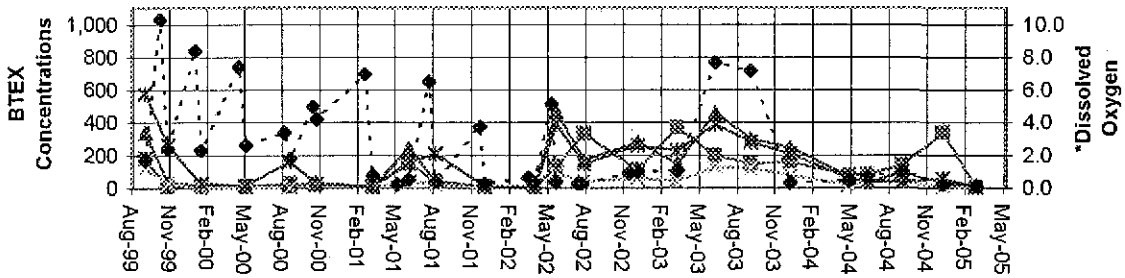
DRAWN	PROJECT NUMBER	CHECKED	DATE	APPROVED	DATE
CN	4097041918 02		04/05		5.11.05

MW-1



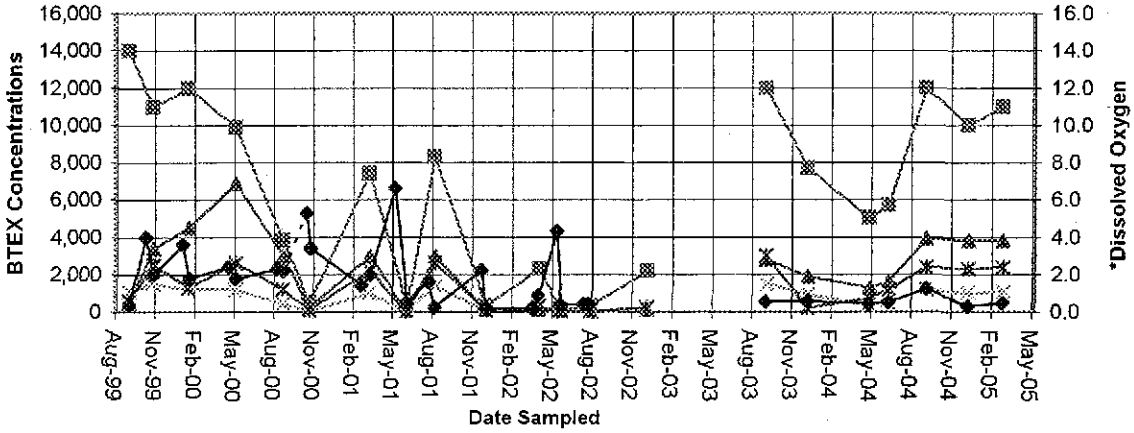
(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC removed after Sept. 2002.)

MW-3



(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC removed after Sept. 2002.)

MW-5



(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC sock stuck in MW-5 for April 2003 and July 2003 sampling events.)

* DO values collected after ORC removal and prior to sampling between Sept. 99 and Sept. 2002.

MACTEC

BTEX and DO Results
First Quarter 2005
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5

Drawn by	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4097041918		Apr-05	

APPENDIX A

LABORATORY REPORTS

Sequoia
Analytical

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29 March, 2005

David Nanstad
MACTEC E&C - Petaluma
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

RE: General Commercial
Work Order: P503206

Enclosed are the results of analyses for samples received by the laboratory on 03/17/05 08:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Butler
Project Manager

CA ELAP Certificate #2374

Sequoia Analytical

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0511409704	P503206-01	Water	03/16/05 08:20	03/17/05 08:45
0511409702	P503206-02	Water	03/16/05 08:45	03/17/05 08:45
0511409701	P503206-03	Water	03/16/05 09:05	03/17/05 08:45
0511409705	P503206-04	Water	03/16/05 09:20	03/17/05 08:45

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0511409704 (P503206-01) Water	**Sampled: 03/16/05 08:20**	**Received: 03/17/05 08:45**							
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	5030213	03/21/05	03/22/05	EPA 8015B/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC02
Surrogate: a,a,a-Trifluorotoluene		*98 %*	*89-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*	*65-135*		"	"	"	"	
0511409702 (P503206-02) Water	**Sampled: 03/16/05 08:45**	**Received: 03/17/05 08:45**							
Gasoline Range Organics (C6-C10)	**97**	50	ug/l	1	5030220	03/21/05	03/22/05	EPA 8015B/8021 B	
Benzene	**1.4**	0.50	"	"	"	"	"	"	
Toluene	**1.8**	0.50	"	"	"	"	"	"	
Ethylbenzene	**0.66**	0.50	"	"	"	"	"	"	
Xylenes (total)	**2.9**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC02
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*89-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*	*65-135*		"	"	"	"	
0511409701 (P503206-03) Water	**Sampled: 03/16/05 09:05**	**Received: 03/17/05 08:45**							
Gasoline Range Organics (C6-C10)	**21000**	1000	ug/l	20	5030290	03/28/05	03/28/05	EPA 8015B/8021 B	
Benzene	**4100**	10	"	"	"	"	"	"	
Toluene	**4200**	10	"	"	"	"	"	"	
Ethylbenzene	**470**	10	"	"	"	"	"	"	
Xylenes (total)	**1300**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**62**	50	"	"	"	"	"	"	CF1
Surrogate: a,a,a-Trifluorotoluene		*98 %*	*89-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96 %*	*65-135*		"	"	"	"	

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0511409705 (P503206-04) Water	**Sampled: 03/16/05 09:20**	**Received: 03/17/05 08:45**							
Gasoline Range Organics (C6-C10)	**37000**	2500	ug/l	50	5030290	03/28/05	03/28/05	EPA 8015B/8021 B	
Benzene	**11000**	25	"	"	"	"	"	"	
Toluene	**3800**	25	"	"	"	"	"	"	
Ethylbenzene	**1100**	25	"	"	"	"	"	"	
Xylenes (total)	**2400**	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	120	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97 %*	*89-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97 %*	*65-135*		"	"	"	"	

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0511409704 (P503206-01) Water	**Sampled: 03/16/05 08:20**	**Received: 03/17/05 08:45**							
Methyl tert-butyl ether	ND	0.50	ug/l	1	5030235	03/23/05	03/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*105 %*	*84-122*		"	"	"	"	
0511409702 (P503206-02) Water	**Sampled: 03/16/05 08:45**	**Received: 03/17/05 08:45**							
Methyl tert-butyl ether	ND	0.50	ug/l	1	5030235	03/23/05	03/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*99 %*	*84-122*		"	"	"	"	
0511409701 (P503206-03) Water	**Sampled: 03/16/05 09:05**	**Received: 03/17/05 08:45**							
1,2-Dichloroethane	**190**	100	ug/l	100	5030224	03/22/05	03/22/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*109 %*	*84-122*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*74-135*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*84-119*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*86-119*		"	"	"	"	
Methyl tert-butyl ether	ND	50	"	100	5030235	03/23/05	03/23/05	"	
Surrogate: Dibromofluoromethane		*95 %*	*84-122*		"	"	"	"	
0511409705 (P503206-04) Water	**Sampled: 03/16/05 09:20**	**Received: 03/17/05 08:45**							
1,2-Dichloroethane	**610**	500	ug/l	500	5030235	03/23/05	03/23/05	EPA 8260B	
Surrogate: Dibromofluoromethane		*106 %*	*84-122*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*74-135*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*84-119*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*86-119*		"	"	"	"	
Methyl tert-butyl ether	ND	250	"	500	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*84-122*		"	"	"	"	

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5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030213 - EPA 5030B, waters / EPA 8015B/8021B										
Blank (5030213-BLK1)				Prepared & Analyzed: 03/21/05						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*296*		"	*300*		*99*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*264*		"	*300*		*88*	*65-135*			
Blank (5030213-BLK2)				Prepared & Analyzed: 03/24/05						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*294*		"	*300*		*98*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*265*		"	*300*		*88*	*65-135*			
Laboratory Control Sample (5030213-BS1)				Prepared & Analyzed: 03/21/05						
Gasoline Range Organics (C6-C10)	2360	50	ug/l	2750		86	65-135			
Benzene	38.5	0.50	"	40.0		96	82-139			
Toluene	198	0.50	"	200		99	75-123			
Ethylbenzene	45.0	0.50	"	47.0		96	75-114			
Xylenes (total)	230	0.50	"	228		101	78-116			
Methyl tert-butyl ether	77.0	2.5	"	62.0		124	64-168			
Surrogate: a,a,a-Trifluorotoluene	*283*		"	*300*		*94*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*298*		"	*300*		*99*	*65-135*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030213 - EPA 5030B, waters / EPA 8015B/8021B										
Laboratory Control Sample (5030213-BS2)				Prepared & Analyzed: 03/24/05						
Gasoline Range Organics (C6-C10)	2240	50	ug/l	2750		81	65-135			
Benzene	38.4	0.50	"	40.0		96	82-139			
Toluene	193	0.50	"	200		96	75-123			
Ethylbenzene	44.0	0.50	"	47.0		94	75-114			
Xylenes (total)	226	0.50	"	228		99	78-116			
Methyl tert-butyl ether	77.3	2.5	"	62.0		125	64-168			
Surrogate: a,a,a-Trifluorotoluene	*286*		"	*300*		*95*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*303*		"	*300*		*101*	*65-135*			
Matrix Spike (5030213-MS1)	**Source: P503178-12**			Prepared: 03/21/05 Analyzed: 03/24/05						
Gasoline Range Organics (C6-C10)	23800	500	ug/l	27500	28000	NR	65-135			QM02
Benzene	392	5.0	"	400	1.3	98	82-139			
Toluene	1960	5.0	"	2000	ND	98	75-123			
Ethylbenzene	462	5.0	"	470	95	78	75-114			
Xylenes (total)	2360	5.0	"	2280	150	97	78-116			
Methyl tert-butyl ether	805	25	"	620	1.9	130	64-168			
Surrogate: a,a,a-Trifluorotoluene	*288*		"	*300*		*96*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*330*		"	*300*		*110*	*65-135*			
Matrix Spike Dup (5030213-MSD1)	**Source: P503178-12**			Prepared: 03/21/05 Analyzed: 03/24/05						
Gasoline Range Organics (C6-C10)	22400	500	ug/l	27500	28000	NR	65-135	6	20	QM02
Benzene	373	5.0	"	400	1.3	93	82-139	5	20	
Toluene	1940	5.0	"	2000	ND	97	75-123	1	20	
Ethylbenzene	452	5.0	"	470	95	76	75-114	2	20	
Xylenes (total)	2320	5.0	"	2280	150	95	78-116	2	20	
Methyl tert-butyl ether	770	25	"	620	1.9	124	64-168	4	20	
Surrogate: a,a,a-Trifluorotoluene	*292*		"	*300*		*97*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*329*		"	*300*		*110*	*65-135*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030220 - EPA 5030B, waters / EPA 8015B/8021B										
Blank (5030220-BLK1)				Prepared: 03/21/05 Analyzed: 03/22/05						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*296*		"	*300*		*99*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*264*		"	*300*		*88*	*65-135*			
Laboratory Control Sample (5030220-BS1)				Prepared: 03/21/05 Analyzed: 03/22/05						
Gasoline Range Organics (C6-C10)	2290	50	ug/l	2750		83	65-135			
Benzene	40.8	0.50	"	40.0		102	82-139			
Toluene	207	0.50	"	200		104	75-123			
Ethylbenzene	46.2	0.50	"	47.0		98	75-114			
Xylenes (total)	238	0.50	"	228		104	78-116			
Methyl tert-butyl ether	75.9	2.5	"	62.0		122	64-168			
Surrogate: a,a,a-Trifluorotoluene	*300*		"	*300*		*100*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*304*		"	*300*		*101*	*65-135*			
Matrix Spike (5030220-MS1)	**Source: P503233-07**			Prepared: 03/21/05 Analyzed: 03/22/05						
Gasoline Range Organics (C6-C10)	2120	50	ug/l	2750	29	76	65-135			
Benzene	34.6	0.50	"	40.0	ND	86	82-139			
Toluene	198	0.50	"	200	0.41	99	75-123			
Ethylbenzene	44.4	0.50	"	47.0	ND	94	75-114			
Xylenes (total)	228	0.50	"	228	ND	100	78-116			
Methyl tert-butyl ether	67.3	2.5	"	62.0	ND	109	64-168			
Surrogate: a,a,a-Trifluorotoluene	*293*		"	*300*		*98*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*295*		"	*300*		*98*	*65-135*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030220 - EPA 5030B, waters / EPA 8015B/8021B										
Matrix Spike Dup (5030220-MSD1)	**Source: P503233-07**			Prepared: 03/21/05 Analyzed: 03/22/05						
Gasoline Range Organics (C6-C10)	*2080*	50	ug/l	2750	29	75	65-135	2	20	
Benzene	33.6	0.50	"	40.0	ND	84	82-139	3	20	
Toluene	193	0.50	"	200	0.41	96	75-123	3	20	
Ethylbenzene	44.1	0.50	"	47.0	ND	94	75-114	0.7	20	
Xylenes (total)	226	0.50	"	228	ND	99	78-116	0.9	20	
Methyl tert-butyl ether	67.5	2.5	"	62.0	ND	109	64-168	0.3	20	
Surrogate: a,a,a-Trifluorotoluene	*291*		"	*300*		*97*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*301*		"	*300*		*100*	*65-135*			
Batch 5030290 - EPA 5030B, waters / EPA 8015B/8021B										
Blank (5030290-BLK1)				Prepared & Analyzed: 03/28/05						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*289*		"	*300*		*96*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*271*		"	*300*		*90*	*65-135*			
Laboratory Control Sample (5030290-BS1)				Prepared & Analyzed: 03/28/05						
Gasoline Range Organics (C6-C10)	2260	50	ug/l	2750		82	65-135			
Benzene	37.7	0.50	"	40.0		94	82-139			
Toluene	197	0.50	"	200		98	75-123			
Ethylbenzene	45.0	0.50	"	47.0		96	75-114			
Xylenes (total)	231	0.50	"	228		101	78-116			
Methyl tert-butyl ether	75.2	2.5	"	62.0		121	64-168			
Surrogate: a,a,a-Trifluorotoluene	*284*		"	*300*		*95*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*306*		"	*300*		*102*	*65-135*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030290 - EPA 5030B, waters / EPA 8015B/8021B										
Matrix Spike (5030290-MS1)	**Source: P503206-03**			Prepared & Analyzed: 03/28/05						
Gasoline Range Organics (C6-C10)	65700	1000	ug/l	55000	21000	81	65-135			
Benzene	5240	10	"	800	4100	142	82-139			QM01
Toluene	8480	10	"	3990	4200	107	75-123			
Ethylbenzene	1410	10	"	940	470	100	75-114			
Xylenes (total)	6130	10	"	4570	1300	106	78-116			
Methyl tert-butyl ether	1380	50	"	1240	62	106	64-168			
Surrogate: a,a,a-Trifluorotoluene	*304*		"	*300*		*101*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*312*		"	*300*		*104*	*65-135*			
Matrix Spike Dup (5030290-MSD1)	**Source: P503206-03**			Prepared & Analyzed: 03/28/05						
Gasoline Range Organics (C6-C10)	63900	1000	ug/l	55000	21000	78	65-135	3	20	
Benzene	5050	10	"	800	4100	119	82-139	4	20	
Toluene	8320	10	"	3990	4200	103	75-123	2	20	
Ethylbenzene	1380	10	"	940	470	97	75-114	2	20	
Xylenes (total)	6020	10	"	4570	1300	103	78-116	2	20	
Methyl tert-butyl ether	1380	50	"	1240	62	106	64-168	0	20	
Surrogate: a,a,a-Trifluorotoluene	*298*		"	*300*		*99*	*89-131*			
Surrogate: 4-Bromofluorobenzene	*314*		"	*300*		*105*	*65-135*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030224 - EPA 5030B waters / EPA 8260B										
Blank (5030224-BLK1)			Prepared & Analyzed: 03/22/05							
Acetone	ND	10	ug/l							
Benzene	ND	1.0	"							
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
2-Butanone	ND	10	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon disulfide	ND	10	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030224 - EPA 5030B waters / EPA 8260B										
Blank (5030224-BLK1)				Prepared & Analyzed: 03/22/05						
cis-1,3-Dichloropropene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Freon 113	ND	1.0	"							
Hexachlorobutadiene	ND	1.0	"							
2-Hexanone	ND	10	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
4-Methyl-2-pentanone	ND	10	"							
Methyl tert-butyl ether	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	20	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	*4.75*		"	*5.00*		*95*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*4.41*		"	*5.00*		*88*	*74-135*			
Surrogate: Toluene-d8	*5.01*		"	*5.00*		*100*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.08*		"	*5.00*		*102*	*86-119*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030224 - EPA 5030B waters / EPA 8260B										
Laboratory Control Sample (5030224-BS1)				Prepared & Analyzed: 03/22/05						
Benzene	4.51	1.0	ug/l	5.00		90	81-118			
Chlorobenzene	5.19	1.0	"	5.00		104	88-119			
1,1-Dichloroethene	3.87	1.0	"	5.00		77	77-121			
Toluene	5.04	1.0	"	5.00		101	84-119			
Trichloroethene	5.15	1.0	"	5.00		103	83-126			
Surrogate: Dibromofluoromethane	*4.84*		"	*5.00*		*97*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*4.30*		"	*5.00*		*86*	*74-135*			
Surrogate: Toluene-d8	*5.00*		"	*5.00*		*100*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.07*		"	*5.00*		*101*	*86-119*			
Matrix Spike (5030224-MS1)	**Source: P503217-11**			Prepared & Analyzed: 03/22/05						
Benzene	4.53	1.0	ug/l	5.00	ND	91	81-118			
Chlorobenzene	5.05	1.0	"	5.00	ND	101	88-119			
1,1-Dichloroethene	4.14	1.0	"	5.00	ND	83	77-121			
Toluene	4.88	1.0	"	5.00	ND	98	84-119			
Trichloroethene	5.05	1.0	"	5.00	ND	101	83-126			
Surrogate: Dibromofluoromethane	*5.20*		"	*5.00*		*104*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*4.88*		"	*5.00*		*98*	*74-135*			
Surrogate: Toluene-d8	*5.07*		"	*5.00*		*101*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.16*		"	*5.00*		*103*	*86-119*			
Matrix Spike Dup (5030224-MSD1)	**Source: P503217-11**			Prepared & Analyzed: 03/22/05						
Benzene	4.42	1.0	ug/l	5.00	ND	88	81-118	2	20	
Chlorobenzene	4.90	1.0	"	5.00	ND	98	88-119	3	20	
1,1-Dichloroethene	4.11	1.0	"	5.00	ND	82	77-121	0.7	20	
Toluene	4.83	1.0	"	5.00	ND	97	84-119	1	20	
Trichloroethene	4.90	1.0	"	5.00	ND	98	83-126	3	20	
Surrogate: Dibromofluoromethane	*5.21*		"	*5.00*		*104*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*4.94*		"	*5.00*		*99*	*74-135*			
Surrogate: Toluene-d8	*5.11*		"	*5.00*		*102*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.18*		"	*5.00*		*104*	*86-119*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030235 - EPA 5030B waters / EPA 8260B										
Blank (5030235-BLK1)			Prepared & Analyzed: 03/23/05							
Acetone	ND	10	ug/l							
Benzene	ND	1.0	"							
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
2-Butanone	ND	10	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon disulfide	ND	10	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030235 - EPA 5030B waters / EPA 8260B										
Blank (5030235-BLK1)			Prepared & Analyzed: 03/23/05							
cis-1,3-Dichloropropene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Freon 113	ND	1.0	"							
Hexachlorobutadiene	ND	1.0	"							
2-Hexanone	ND	10	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
4-Methyl-2-pentanone	ND	10	"							
Methyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	20	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	*4.97*		"	*5.00*		*99*	*84-122*			
Surrogate: Dibromofluoromethane	*4.97*		"	*5.00*		*99*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*5.25*		"	*5.00*		*105*	*74-135*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030235 - EPA 5030B waters / EPA 8260B										
Blank (5030235-BLK1)				Prepared & Analyzed: 03/23/05						
Surrogate: Toluene-d8	*4.73*		*ug/l*	*5.00*		*95*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.06*		*"*	*5.00*		*101*	*86-119*			
Laboratory Control Sample (5030235-BS1)				Prepared & Analyzed: 03/23/05						
Benzene	4.85	1.0	ug/l	5.00		97	81-118			
Chlorobenzene	5.13	1.0	"	5.00		103	88-119			
1,1-Dichloroethene	4.90	1.0	"	5.00		98	77-121			
Methyl tert-butyl ether	4.80	0.50	"	5.00		96	77-123			
Toluene	5.10	1.0	"	5.00		102	84-119			
Trichloroethene	5.11	1.0	"	5.00		102	83-126			
Surrogate: Dibromofluoromethane	*5.18*		*"*	*5.00*		*104*	*84-122*			
Surrogate: Dibromofluoromethane	*5.18*		*"*	*5.00*		*104*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*5.25*		*"*	*5.00*		*105*	*74-135*			
Surrogate: Toluene-d8	*5.08*		*"*	*5.00*		*102*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.26*		*"*	*5.00*		*105*	*86-119*			
Matrix Spike (5030235-MS1)	**Source: P503252-01**			Prepared & Analyzed: 03/23/05						
Benzene	4.44	1.0	ug/l	5.00	ND	89	81-118			
Chlorobenzene	4.76	1.0	"	5.00	ND	95	88-119			
1,1-Dichloroethene	4.62	1.0	"	5.00	ND	92	77-121			
Methyl tert-butyl ether	4.78	0.50	"	5.00	ND	96	77-123			
Toluene	4.74	1.0	"	5.00	ND	95	84-119			
Trichloroethene	14.4	1.0	"	5.00	8.0	128	83-126			QM01
Surrogate: Dibromofluoromethane	*5.25*		*"*	*5.00*		*105*	*84-122*			
Surrogate: Dibromofluoromethane	*5.25*		*"*	*5.00*		*105*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*5.59*		*"*	*5.00*		*112*	*74-135*			
Surrogate: Toluene-d8	*5.19*		*"*	*5.00*		*104*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.33*		*"*	*5.00*		*107*	*86-119*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030235 - EPA 5030B waters / EPA 8260B										
Matrix Spike Dup (5030235-MSD1)	**Source: P503252-01**			Prepared & Analyzed: 03/23/05						
Benzene	4.96	1.0	ug/l	5.00	ND	99	81-118	11	20	
Chlorobenzene	5.10	1.0	"	5.00	ND	102	88-119	7	20	
1,1-Dichloroethene	5.27	1.0	"	5.00	ND	105	77-121	13	20	
Methyl tert-butyl ether	5.24	0.50	"	5.00	ND	105	77-123	9	20	
Toluene	5.36	1.0	"	5.00	ND	107	84-119	12	20	
Trichloroethene	15.0	1.0	"	5.00	8.0	140	83-126	4	20	QM01
Surrogate: Dibromofluoromethane	*5.21*		"	*5.00*		*104*	*84-122*			
Surrogate: Dibromofluoromethane	*5.21*		"	*5.00*		*104*	*84-122*			
Surrogate: 1,2-Dichloroethane-d4	*5.39*		"	*5.00*		*108*	*74-135*			
Surrogate: Toluene-d8	*5.02*		"	*5.00*		*100*	*84-119*			
Surrogate: 4-Bromofluorobenzene	*5.00*		"	*5.00*		*100*	*86-119*			

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MACTEC E&C - Petaluma	Project:General Commercial	P503206
5341 Old Redwood Highway, Suite 300	Project Number:BPS-City Blue/4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager:David Nanstad	03/29/05 15:16

Notes and Definitions

R-04	The Reporting Limits for this analysis are elevated due to sample foaming.
QM02	The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM01	The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
CF1	Primary and confirmation results varied by greater than 40% RPD.
CC02	The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

MACTEC

5341 Old Redwood Highway
Suite 300
Petaluma, CA 94954
(707) 793-3800

CHAIN OF CUSTODY FORM

Seq. No.: № 1105

Samplers: David Browne, Chad Simpson

Lab: Sequoia

Job Number: 409704 1918.01 Justin HANZEL

Name/Location: BAS- City Blue

Project Manager: David Nanstad

Recorder: David Browne (Signature Required)

PS03206

MATRIX			# CONTAINERS & PRESERV.						SAMPLE NUMBER		DATE				STATION DESCRIPTION		ANALYSIS REQUESTED				
Water	Soil	Air	Unpres.	H2SO4	HNO3	HCL			YR	SEQ	YR	MO	DAY	TIME		DEPTH	TPH-g 8015	BTEX 8020	MTBE 8020/8260	EDC	
X						3			05	114097040	05	03	16	0820	PS03206-01		X	X	X		
X						3			05	114097020	05	03	16	0845	2		X	X	X		
X						5			05	114097010	05	03	16	0905	3		X	X	X	X	
X						5			05	114097050	05	03	16	0920	4		X	X	X	X	

ADDITIONAL INFORMATION

SAMPLE NUMBER	
YR	SEQ

TURNAROUND TIME/ REMARKS

Standard turnaround time

COOLER CUSTODY SEALS INTACT ☐

NOT INTACT ☐

COOLER TEMPERATURE 3.0 °c

CHAIN OF CUSTODY RECORD

0845

Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
[signature]	Justin Hanzel-Dubin	Mactec	3/17/05
Received By (Signature)	**(Print Name)**	**(Company)**	**Date/Time**
[signature]	GAIL HERRMANN	SEQUOIA	3/17/05 0[illegible]
Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
Received By (Signature)	(Print Name)	(Company)	Date/Time
Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
Received By (Signature)	(Print Name)	(Company)	Date/Time

Method of Shipment:

Laboratory Copy Project Office Copy Field or Office Copy

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: MACTEC
REC. BY (PRINT) ACI GH
WORKORDER: 5050206

DATE Received at Lab: 3-17-05
TIME Received at Lab: 845
LOG IN DATE: 3-17-05

(Drinking water) for regulatory purposes: YES/NO
(Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	Dash #	CLIENT ID	CONTAINER DESCRIPTION	pH	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
			05114097 04	3xpv		W	3-16	
1. Custody Seal(s) Present / Absent			702	1				
Intact / Broken*			701	5xpv				
2. Chain-of-Custody Present / Absent*			705					
3. Airbill: Airbill / Sticker								
Present / Absent								
4. Airbill #:								
5. Sample Labels: Present / Absent								
6. Sample IDs: Listed / Not Listed								
on Chain-of-Custody								
7. Sample Condition: Intact / Broken* /				17	05			
Leaking*								
8. Does information on custody reports,								
traffic reports, and sample								
labels agree? Yes / No*								
9. Sample received within								
hold time: Yes / No*								
10. Proper Preservatives								
used: Yes / No*								
11. Temperature Blank Received? Yes / No*								
12. Temp Rec. at Lab: 3.0 degrees C								
(Acceptance range for samples								
requiring thermal pres.:4+/-2°C) Yes / No*								
13. Samples collected more								
than 4 days ago? Yes */ No								

*If Circled, contact Project Manager and attach record of resolution.

APPENDIX B

GROUNDWATER SAMPLING FORM

Table B1. Sample Location/Sample Description Cross-Reference
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Well/Sample Number	Client Sample ID
MW-1	511409701
MW-3	511409702
MW-5	511409705
MW-6	511409704

Project: BPS - OAK Island Job No.: 40770419/B.01
Subject: FIELD INVESTIGATION DAILY REPORT Date: 3/16/05
Equipment Rental: Company: To: David Nanstad
Equipment Hours: F.E. Time from: to: By: D. Brousseau

(Outside service and expense record must be attached for any outside costs)

0500 @ MACTEC Petaluma - Load equipment, supplies, paperwork
0600 Depart Petaluma for BPS - City Blue
0645 @ BPS - Calibrate meters
pH meter Serial # DB03 to 7.0 4
YSI 30 serial # 1394 to 1000 us/cm
t = 11.9 Conduct = 807
Turbidity
0-10 = 4.54 10-100 = 47.6 100-1000 = 500
YSI 55 - D.O meter Serial # 0075 set to 0 ft elevation

0700 @ MW-6 WL = 23.6
D.O. 0.47 Redox = 176.8
0725 @ MW-3 WL = 23.7
D.O = 0.14 Redox = -99.7
0740 @ MW-5 WL = 22.11
D.O. = 0.47 Redox = -161.5
0800 @ MW-1 WL = 23.80
D.O. = 0.41 Redox = -36.0
0810 @ MW-6
0820 Sample MW-6 Sample # 05114097D4
0840 @ MW-3
0845 Sample MW-3 Sample # 05114097D2
0900 @ MW-1
0905 Sample MW-1 Sample # 05114097D1
0915 @ MW-5
0920 Sampled MW-5 # 05114097D5
0945 Depart site
1100 @ MACTEC Petaluma

DSB
3/16/05

Attachments:

Initial DSB

Groundwater Monitoring Data Sheet

City Blue
1700 Jefferson Street
Oakland, CA

Well Number	Date	Time	Water Depth First Reading (TOC)	Water Depth Second Reading (TOC)	Cap	Lock	Casing	Box/Lid	Well Diameter	Comments
MW-1	3/16	0800	22.80	22.80	Y	N	G	G	4"	
MW-3		0725	23.7	23.7	Y	N	G	G	4"	
MW-5	3/16	0790	22.11	22.11	Y	N	G	G		
MW-6	3/16	0700	23.46	23.6	Y	N	G	G	2"	
MW-1A										
MW-4										

Please record all monitoring equipment model numbers, serial numbers and calibration dates here. Also record expiration dates of calibration fluids if applicable:

pH: Hanna Serial # D803

Temperature: YSI 30 Serial # 1394

Specific Conductance: YSI 30 Serial # 1394

Dissolved Oxygen: YSI 55 Serial # 0075

Turbidity: Hach Serial # 9092

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 4097041918.01 1
Recorded By: David Brown (Signature)

Well Number: MW-1
Well Type: [X] Monitor [ ] Extraction [ ] Other ___
[X] PVC [ ] St. Steel [ ] Other ___
Date: 3/16/05
Sampled By: D.S.B (Initials)
Reviewed by ___

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): 33.5
Water Level Depth (WL in ft BTOC): 23.80
No. of Well Volumes to be purged (# V 3

PURGE METHOD

[ ] Bailer - Type: ___
[ ] Submersible - Type: ___
[X] Other - Type: Micro purge

PUMP INTAKE SETTING

[ ] Near Bottom [ ] Near Top
[X] Other
Depth in feet (BTOC): Middle of screen
Screen Interval in feet (BTOC): from ___ to ___

PURGE VOLUME CALCULATION

(_____ - _____) X ___ ² X 3 X 0.0408 = _____ gals
TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. [X] °C [ ] °F	Turbidity (NTU)
	6.33	899 us	17.4	5.73
Meter S/N				

PURGE TIME

Purge Start: 0900
Purge Stop: 0905
Elapsed: 05

PURGE RATE

GPM: ___
GPM: ___

PURGE VOLUME

Volume: 1 Lt gallons
D.O. .41 mg/Lt. Redox -36.0 mV
Observations During Purging (Well Condition, Color, Odor):
Hydrocarbon odor - No sheen - yellowish color
Discharge Water Disposal: [ ] Sanitary Sewer
[ ] Storm Sewer [ ] Other 55 Gal. drum on site

WELL SAMPLING

[ ] Bailer - Type: Grab
Sample Time: 0905

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
5114097 01	5 ~~6 VOA's~~	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			
		~~Ethylene Dichloride~~ EDC CS			

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 4097041918.01
Recorded By: David Brown (Signature)

Well Number: MW-3
Well Type: [X] Monitor [ ] Extraction [ ] Other
[X] PVC [ ] St. Steel [ ] Other
Date: 3/16/05
Sampled By: D.S.B (initials)
Reviewed by

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): 31.0
Water Level Depth (WL in ft BTOC): 23.70
No. of Well Volumes to be purged (# V):

PURGE METHOD

[ ] Bailer - Type:
[ ] Submersible - Type:
[X] Other - Type: Micro Purge

PUMP INTAKE SETTING

[ ] Near Bottom [ ] Near Top
[X] Other
Depth in feet (BTOC): Middle of screen
Screen Interval in feet (BTOC): from ____ to ____

PURGE VOLUME CALCULATION

(_____ - _____) X ____ ² X 3 X 0.0408 = _____ gals
TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. [X] °C [ ] °F	Turbidity (NTU)
Initial	5.71	68.5	18.9	17.4
Meter S/N				

PURGE TIME

Purge Start: 0840
Purge Stop: 0845
Elapsed: 05

PURGE RATE

GPM:
GPM:

PURGE VOLUME

Volume: 1 Lt. gallons
D.O. .14 Redox -49.7
Observations During Purging (Well Condition, Color, Odor):
Cloudy Brown/Yellowish odorless
Discharge Water Disposal: [ ] Sanitary Sewer
[ ] Storm Sewer [ ] Other 55 Gal. drum on site

WELL SAMPLING

[X] Bailer - Type: Grab
Sample Time: 0845

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
5114097	3-40 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
02		BTEX (8020)			
		MTBE (8020)			
		~~Ethylene Dichloride~~ ES			

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.

MACTEC

GROUNDWATER SAMPLING FORM

Job Name: City Blue

Job Number: 4097041918.01

Recorded By: (Signature)

Well Number: MW-5

Well Type: [X] Monitor [ ] Extraction [ ] Other

[X] PVC [ ] St. Steel [ ] Other

Date: 3/16/05

Sampled By: D.S.B (initials)

Reviewed by

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2
Total Depth of Casing (TD in ft BTOC): 33.5
Water Level Depth (WL in ft BTOC): 22.11
No. of Well Volumes to be purged (# V): 3

PURGE METHOD

[ ] Bailer - Type:
[ ] Submersible - Type:
[X] Other - Type: Micro purge

PUMP INTAKE SETTING

[ ] Near Bottom [ ] Near Top
[X] Other
Depth in feet (BTOC): Middle of screen
Screen Interval in feet (BTOC): from ____ to ____

PURGE VOLUME CALCULATION

(TD (feet) - WL (Feet)) X ___ ² (D (inches)) X 3 (# V) X 0.0408 = ___ gals (Calculated Purge Volume)

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	°C Temp. ☐ °F	Turbidity (NTU)
	5.76	831	68.0	14.9
Meter S/N				

PURGE TIME

Purge Start: 0915
Purge Stop: 0920
Elapsed: 5

PURGE RATE

GPM: ____
GPM: ____

PURGE VOLUME

Volume: 16 gallons

D.O. .47 Redox -161.5

Observations During Purging (Well Condition, Color, Odor):
Clear, smells like product

Discharge Water Disposal: [ ] Sanitary Sewer [ ] Storm Sewer [ ] Other 55 Gal. drum on site

WELL SAMPLING

[ ] Bailer - Type: [X] Grab

Sample Time: 0920

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
5114097 05	5 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			
		~~Ethylene Dichloride~~ EDC			

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.

MACTEC

GROUNDWATER SAMPLING FORM

Well Number: MW-6

Well Type: [X] Monitor [ ] Extraction [ ] Other ____

[X] PVC [ ] St. Steel [ ] Other ____

Job Name: City Blue

Job Number: 4097041918.01

Date: 3/16/05

Recorded By: David Boone (Signature)

Sampled By: D.S.B (Initials)

Reviewed by ____

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2

Total Depth of Casing (TD in ft BTOC): 32.5

Water Level Depth (WL in ft BTOC): 23.4

No. of Well Volumes to be purged (# V): 3

PURGE METHOD

[ ] Bailer - Type: ____

[ ] Submersible - Type: ____

[X] Other - Type: Micro purge

PUMP INTAKE SETTING

[ ] Near Bottom [ ] Near Top

[X] Other

Depth in feet (BTOC): Middle of screen

Screen Interval in feet (BTOC): from ____ to ____

PURGE VOLUME CALCULATION

(____ - ____) X ____ ² X 3 X 0.0408 = ____ gals

TD (feet) WL (Feet) D (inches) # V Calculated Purge Volume

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	[x] °C Temp. [ ] °F	Turbidity (NTU)
Initial	6.24	872	18.9	95.4
Meter S/N				

PURGE TIME

Purge Start: ____

Purge Stop: ____

Elapsed: ____

PURGE RATE

GPM: ____

GPM: ____

PURGE VOLUME

Volume: 1 lt. gallons

D.O 0.47 Redox 176.0

Observations During Purging (Well Condition, Color, Odor):

clear odorless - No sheen

Discharge Water Disposal: [ ] Sanitary Sewer

[ ] Storm Sewer [ ] Other 55 Gal. drum on site

WELL SAMPLING

[ ] Bailer - Type: [X] Grab

Sample Time: 0820

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
5114097 04	3 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			
		~~Ethylene Dibromide~~ DSB			

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.

MACTEC 5341 Old Redwood Highway
Suite 300
Petaluma, CA 94954
(707) 793-3800

CHAIN OF CUSTODY FORM

Seq. No.: № 1105

Samplers: David Browne, Chad Simpson, Justin Hanzel

Lab: Sequoia

Job Number: 4097041918.01

Name/Location: BPS - City Blue

Project Manager: David Nanstad

Recorder: David Browne (Signature Required)

MATRIX: Water	Soil	Air	# CONTAINERS & PRESERV.: Unpres.	H2SO4	HNO3	HCL	SAMPLE NUMBER: YR	SEQ	DATE: YR	MO	DAY	TIME	STATION DESCRIPTION	DEPTH	ANALYSIS REQUESTED: TPH-g	BTEX	[illegible] 8260	EDC
X						3	05	11409704	05	03	16	0820	MW-6		X	X	X	
X						3	05	11409702	05	03	16	0845	MW-3		X	X	X	
X						3	05	11409701	05	03	16	0905	MW-1		X	X	X	X
X						5	05	11409705	05	03	16	0920	MW-5		X	X	X	X

ADDITIONAL INFORMATION

SAMPLE NUMBER: YR	SEQ	TURNAROUND TIME/ REMARKS
		Standard turnaround time

CHAIN OF CUSTODY RECORD

	Signature	Print Name	Company	Date/Time
Relinquished By	[signature]	Justin Hanzel-Dubin	Mactec	3/17/05 0845
Received By	[signature]	Gar Hoffman	Sequoia	3/17/05 0[illegible]
Relinquished By				
Received By				
Relinquished By				
Received By				

Method of Shipment:

F1008-B (5/04)

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink