



May 4, 2006

Project 4097041918 Task 01

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

**Groundwater Remediation and Monitoring Report
Fourth 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 Fourth Quarter 2005 (October through December), 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.

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

May 4, 2006
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 2

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 Butyl Alcohol, Ethylene Dibromide, and Ethylene 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

May 4, 2006
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 3

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.

FOURTH QUARTER 2005 GROUNDWATER SAMPLING AND ANALYSIS

On December 2, 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 In-situ 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 Fourth Quarter 2005 event, DO was monitored in each well. The DO concentrations ranged from 0.9 mg/L in MW-6 to 2.0 mg/L in MW-3. 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 Plate 2 and tabulated in Table 2. As shown in Table 2, the groundwater surface elevation decreased an average of 0.47 feet across the site as compared to last quarter's measurements. Groundwater elevations at the site have generally been increasing since groundwater monitoring began. MACTEC will continue to monitor groundwater elevations in these wells.

Using the groundwater elevations from MW-1, MW-3, MW-5 and MW-6 as measured on December 2, 2005, groundwater contours were created and are shown on Plate 3. Based on the groundwater elevations, the groundwater gradient is approximately 0.006 ft/ft. The direction of flow appears to be in the Northwesterly direction.

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. Fourth 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, Fourth Quarter 2005 monitoring event concentrations of TPH-g and BTEX appear generally within the wells historical fluctuation ranges respectively. These results are discussed further below.

Significant spikes in TPH-g and BTEX concentrations occurred in MW-1 during the Second Quarter 2003 monitoring event. Since that event concentrations in MW-1 appear to be trending down. Fourth Quarter 2005 concentration data in MW-1 indicate an overall increase in TPH-g and BTEX concentrations compared to Third Quarter 2005 concentration data.

Significant spikes in TPH-g and BTEX concentrations occurred in MW-3 during the Second Quarter 2003 monitoring event and a significant spike in Benzene in MW-3 occurred during the Third Quarter 2005 monitoring event. However, the overall concentrations in MW-3 appear to be trending down since the Second Quarter 2003. Fourth Quarter 2005 concentration data in MW-3 indicate an overall decrease in TPH-g and BTEX concentrations compared to Third Quarter 2005 concentration data.

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. Fourth Quarter 2005 concentration data indicate an overall decrease in TPH-g and BTEX concentrations compared to Third Quarter 2005 concentration data.

Typically groundwater collected from MW-6 contains no detectable concentrations of TPH-g or BTEX compounds. Fourth Quarter 2005 monitoring data for MW-6 indicates no concentrations of TPH-g or BTEX compounds were detected in this well. MW-6 will continue to be monitored for these analytes.

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

TPH-g ranged from non-detectable [with a detection limit of 0.05 mg/L (MW-6)] to 21 mg/l (MW-5). Benzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 5,900 ug/L (MW-5).

May 4, 2006
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 5

Toluene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 3,500 ug/L (MW-1). Ethylbenzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 600 ug/L (MW-5). Total Xylenes ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 1,300 ug/L (MW-1). MTBE was not detected in samples from any of the groundwater monitoring wells this quarter with detection limits ranging from 0.5 ug/L (MW-3) to 500 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 Fourth 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 300 ug/L, a slight increase from last quarter results of 290 ug/L. EDC was detected in MW-5 at a concentration of 320 ug/L, a slight increase from last quarter results of 300 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.

April 21, 2006
4097041918 Task 01
Mr. David Blain
BPS Reprographic Services
Page 6

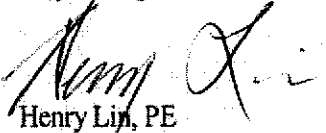
If you have any questions, please contact David S. Nanstad at (415) 278-2118.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.



David S. Nanstad, REA
Project Engineer



Henry Lin, PE
Principal Engineer



Exp. 12/31/07

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

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
11/3/1999	4.0	10.3	4.0	2.8
11/22/1999	1.8	7.4	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	4.6	0.3
6/28/2001	0.3	1.6	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 ¹	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 ³	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	0.4	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
6/23/2005	0.6	0.6	0.8	0.6
9/9/2005	0.6	0.6	0.7	1.1
12/2/2005	1.5	2.0	1.1	0.9
REDOX (mv/ks)				
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	243	-213	254
8/20/2002	-294	-313	-238	228
12/27/2002	-315	-357	NA ²	-12
4/1/2003 ³	-82	-75	NA ³	172
7/1/2003 ³	212	230	NA ³	227
9/24/2003 ³	-166	-300	-183	59
12/29/2003 ³	-319	-198	-269	114
5/18/2004	-389	-189	-248	115
6/30/2004	-270	-343	-163	104
9/23/2004	-314	-284	-162	96
12/28/2004	-303	101	-110	127
3/16/2005	-36	-50	-162	177
6/23/2005	-225	-42	-117	109
9/9/2005	-30	-52	-152	98
12/2/2005	-26	-141	-108	20
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	63.9
4/2/2001	63.5	64.9	66.2	65.4
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 ¹	41.7
4/1/2003 ³	64.6	67.6	NA ³	68.0
7/1/2003 ³	79.4	80.3	NA ³	81.9
9/24/2003 ³	65.1	67.1	65.7	68.5
12/29/2003 ³	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
6/23/2005	64.4	66.7	65.8	66.9
9/9/2005	69.0	70.3	69.8	71.0
12/2/2005	61.5	63.7	62.2	62.1

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
3/30/2000	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 ^a	6.9	7.1	NA ²	6.7
7/1/2003 ^a	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
6/23/2005	6.4	6.1	6.5	6.6
9/9/2005	6.5	6.1	6.1	7.0
12/2/2005	6.5	5.9	7.6	7.1
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
3/30/2000	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 ^a	1128	800	NA ²	1021
7/1/2003 ^a	1020	690	NA ²	970
9/24/2003 ^b	951	697	987	830
12/29/2003 ^b	1143	396	993	934
5/18/2004	1060	692	922	1037
6/30/2004	1005	725	970	962
9/23/2004	1027	636	966	1007
12/28/2004	875	69	807	873
3/16/2005	899	69	831	872
6/23/2005	799	102	718	814
9/9/2005	852	103	817	881
12/2/2005	891	39	750	811

Note:

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

mg/l = milligrams per liter

mV/cm = 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 sacks 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**

Date Sampled	MW-1 TOC Elev. 32.36		MW-3 TOC Elev. 31.77		MW-5 TOC Elev. 30.56		MW-6 TOC Elev. 31.26		Average Change Since Preceding Quarter
	Water Level	Water Elevation	Water Level	Water Elevation	Water Level	Water Elevation	Water Level	Water Elevation	
3/6/1996	NM	--	24.79	6.98	23.53	7.03	NA	--	
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
6/23/2005	22.90	9.46	22.40	9.37	21.20	9.36	22.27	8.99	1.11
9/9/2005	23.27	9.09	22.63	9.14	21.68	8.88	22.55	8.71	-0.34
12/2/2005	23.75	8.61	23.03	8.74	22.19	8.37	23.05	8.21	-0.47

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
 ** This data is suspect due to probable equipment malfunction or operator error.

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

	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	3/1/1999	
TPHg (mg/L)																									
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		
MW-1A	350	FP	FP	FP	FP	170	95	190	67	53	52	62	200	140	100	FP	66	54	73	66	51	50	15	41	
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		
MW-4	86	FP	FP	FP	FP	58	16	92	35	13	14	11	110	260	95	FP	37	24	41	48	NA	25	48	10	
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		
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	
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		
MW-1A	17,000	FP	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	
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		
MW-4	1,500	FP	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	
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		
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)	N	
Toluene (µg/L)																									
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	14,000	4,500	3,000	3,000	3,700	3,800	2,300	4,300	
MW-1A	31,000	FP	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	
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		
MW-4	6,200	FP	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	
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	2,800	3,900	4,500	2,200	1,100	560	270	500	400	310	160	120	
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)	N	
Methylbenzene (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		
MW-1A	3,000	FP	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	
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		
MW-4	1,000	FP	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)	
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		
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)	N	
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		
MW-1A	22,000	FP	FP	FP	FP	14,000	12,000	11,000	9,800	6,300	6,800	5,300	22,000	13,000	14,000	FP	100	7,200	8,500	12,000	6,800	5,800	3,000	6,700	
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		
MW-4	7,300	FP	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	
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		
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)	N	
MTBE (µg/L)																									
MW-1	NA	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)	
MW-1A	NA	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)	
MW-3	NA	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)	
MW-4	NA	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)	
MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(1.0)	ND(1.0)	ND(1.0)	
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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**

	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	6/23/2005	9/9/2005	12/2/2005	
TPHg (mg/L)																											
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	30	7.1	19	
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	0.85	3.9	0.76	
MW-5	10	30	23	19	24	1.8	15	3.6	34	1.9	9.4	1.7	3.2	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	ND<0.05	ND<0.05	ND<0.05	21
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	ND<0.05	ND<0.05	ND<0.05	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	5,400	840	3,600	
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	56	470	14	
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	7,700	10,000	5900	
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	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	5,500	950	3500	
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	7.3	100	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	1,700	2,700	1500	
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<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
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	520	120	410	
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	ND<5	33	2.4	
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	680	1,100	600	
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	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	1,900	410	1300	
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	12	96	17	
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	1,300	2,100	1200	
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	ND<0.5	ND<0.5	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	ND<1,200	ND<120	ND<2.5	
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<0.50 ¹	ND<0.50 ¹	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	ND<25	ND<62	ND<0.5	
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	ND<1,200	ND<1,200	ND<500	
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	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 µg/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

	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	6/23/2005	9/9/2005	12/2/2005
tert Amyl Methyl Ether (µg/L)													
MW-1	ND<250	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	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	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	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	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	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	NR	NR	NR
MW-3	ND<500	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<2000	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<20	NR	NR	NR	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	NR	NR	NR
MW-3	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*ND<50	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylene Dichloride (µg/L)													
MW-1	370	ND<120	400	*500	360	320	320	260	180	190	240	290	300
MW-3	ND<12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-5	*220	³ NA	³ NA	610	410	290	610	670	290	610	190	300	320
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Notes:

Analytes shown on this table monitored per ACHCS requirement 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 Required per ACHCS direction indicating if analyte not detected during 12/27/02 sampling event then the analyte 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



± = EDC detected at same concentration as detection limit

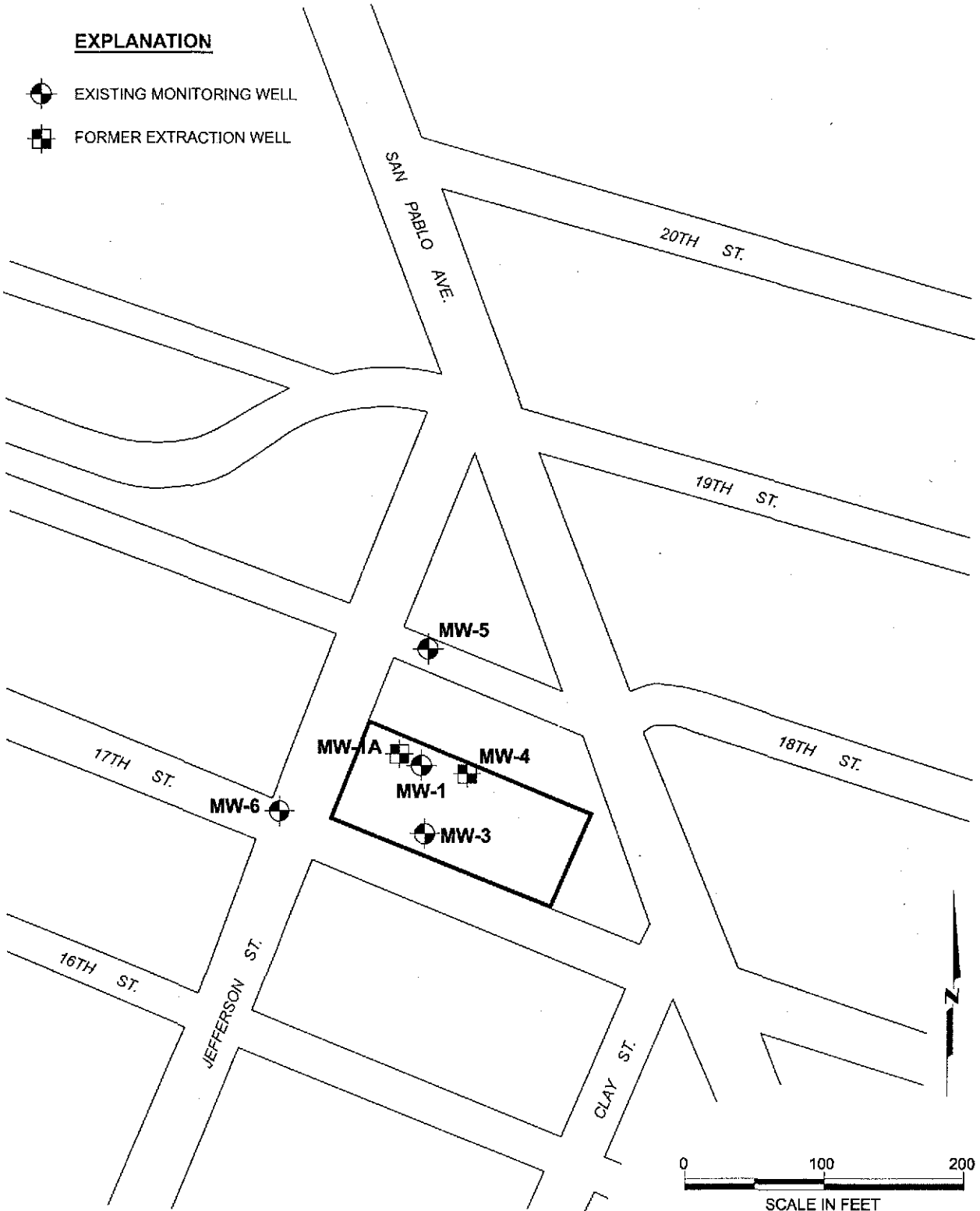
1 = Samples on this date collected without purge

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 obstructing well (see Report for details).

EXPLANATION

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL



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

PLATE

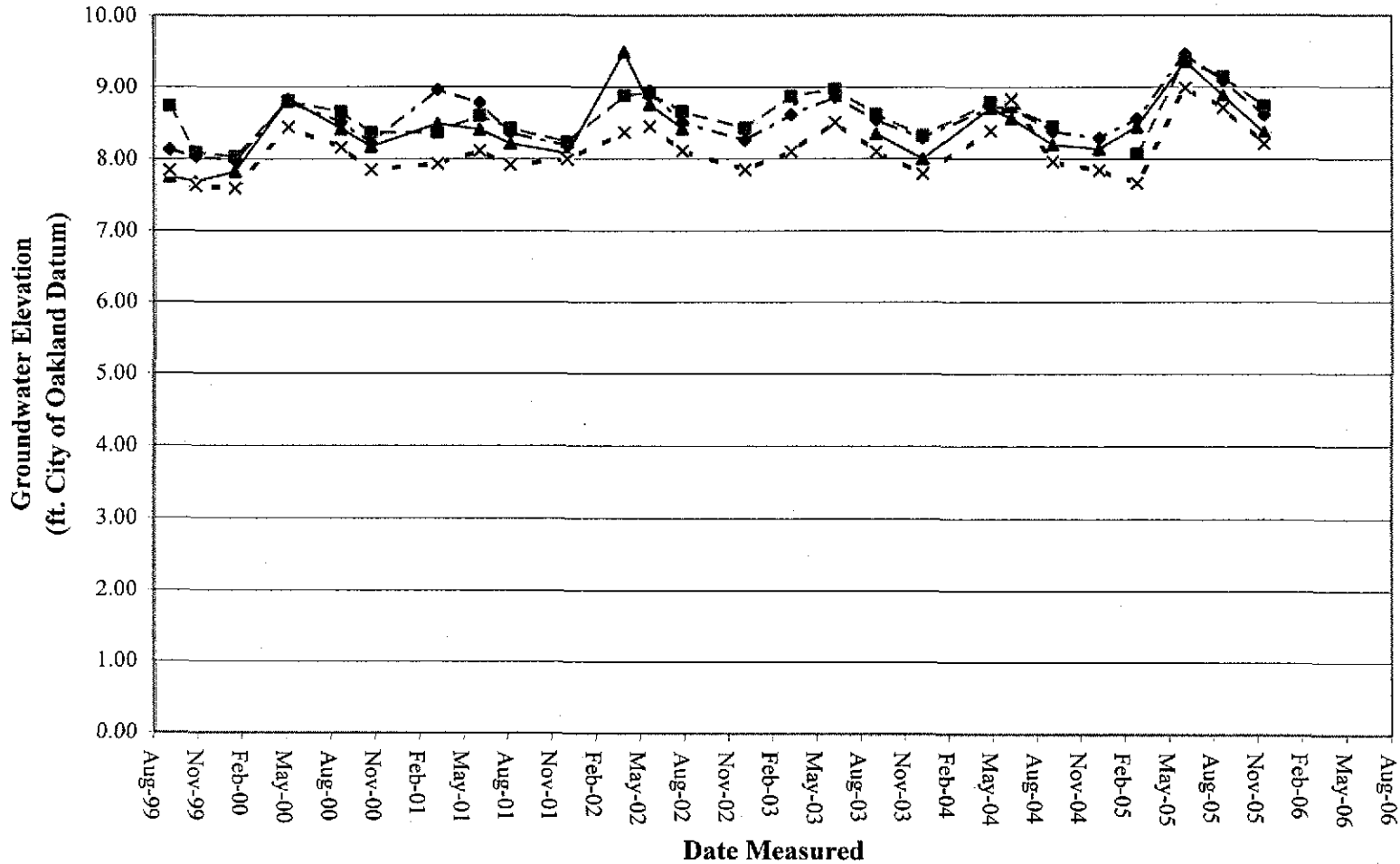
1

DRAWN
CN

PROJECT NUMBER
4097041918 01

CHECKED
CHECKED DATE
04/06

APPROVED
APPROVED DATE



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






Groundwater Elevation Data
 Fourth Quarter 2005
 BPS Reprographic Services Facility
 1700 Jefferson Street
 Oakland, California

Plate

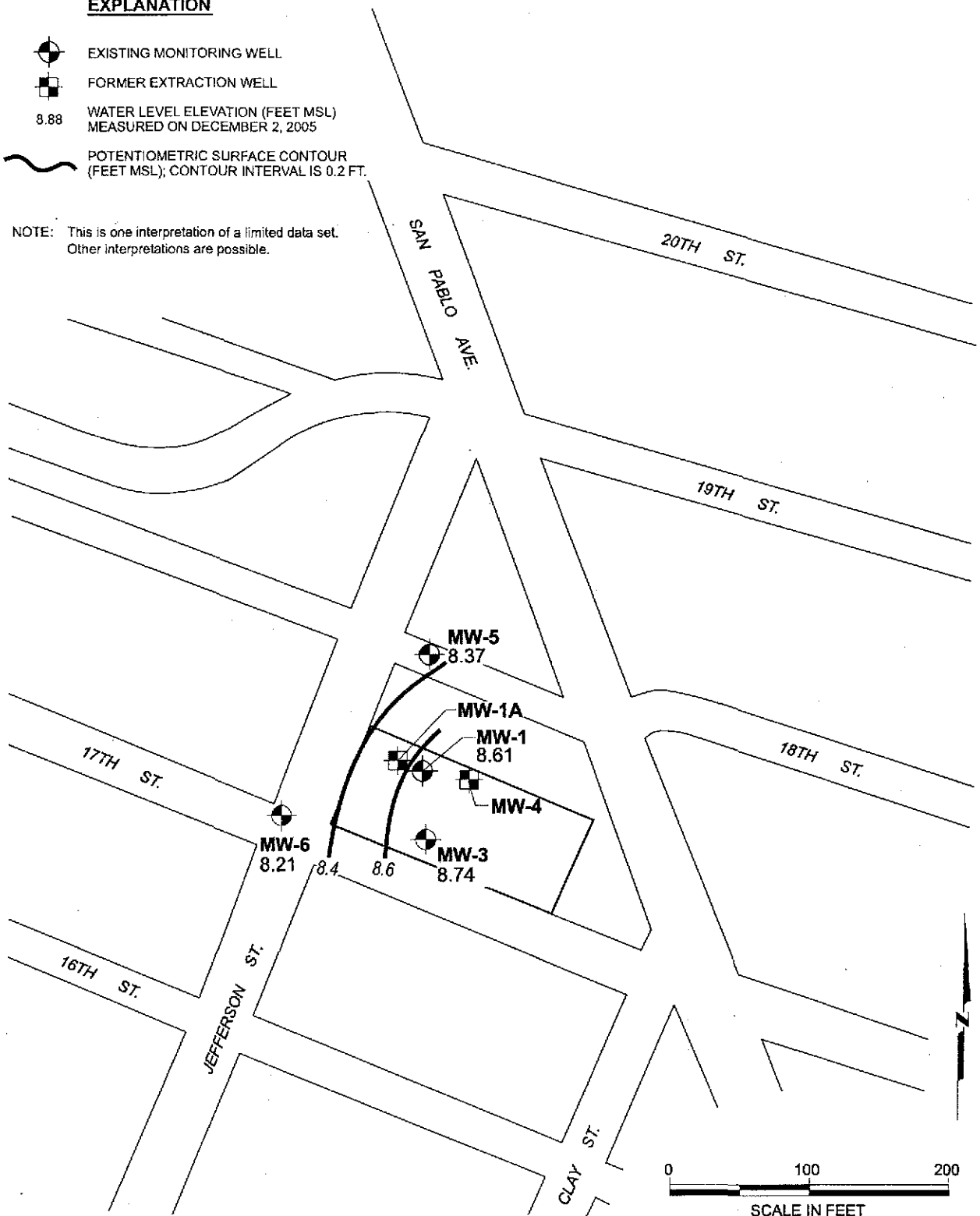
2

DRAWN DSN	JOB NUMBER 4097041918	APPROVED	DATE April-06	REVISION DATE
--------------	--------------------------	----------	------------------	---------------

EXPLANATION

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL
- 8.88 WATER LEVEL ELEVATION (FEET MSL)
MEASURED ON DECEMBER 2, 2005
-  POTENTIOMETRIC SURFACE CONTOUR
(FEET MSL); CONTOUR INTERVAL IS 0.2 FT.

NOTE: This is one interpretation of a limited data set.
Other interpretations are possible.



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

PLATE

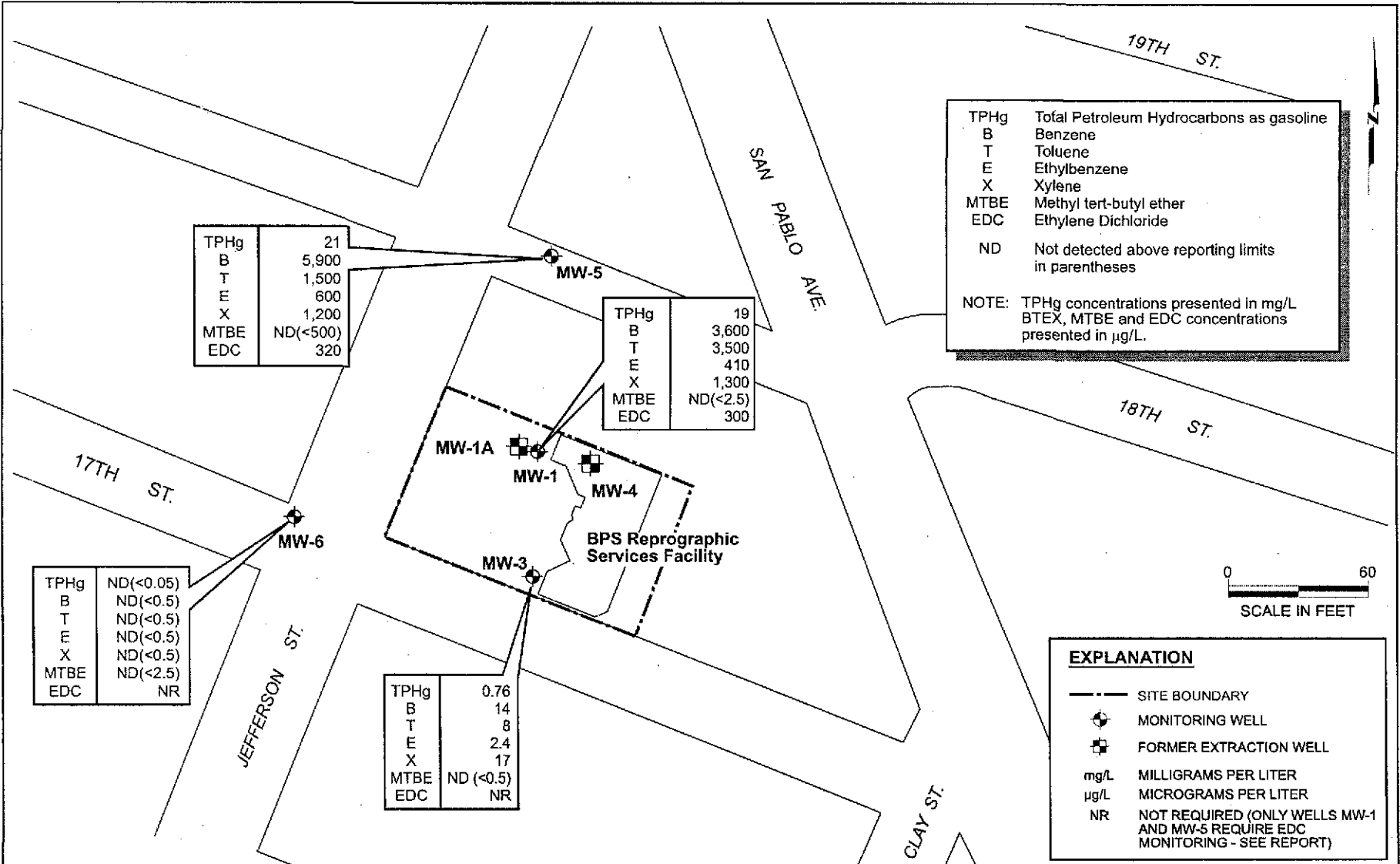
3

DRAWN
CN

PROJECT NUMBER
4097041918 01

CHECKED
CHECKED DATE
04/06

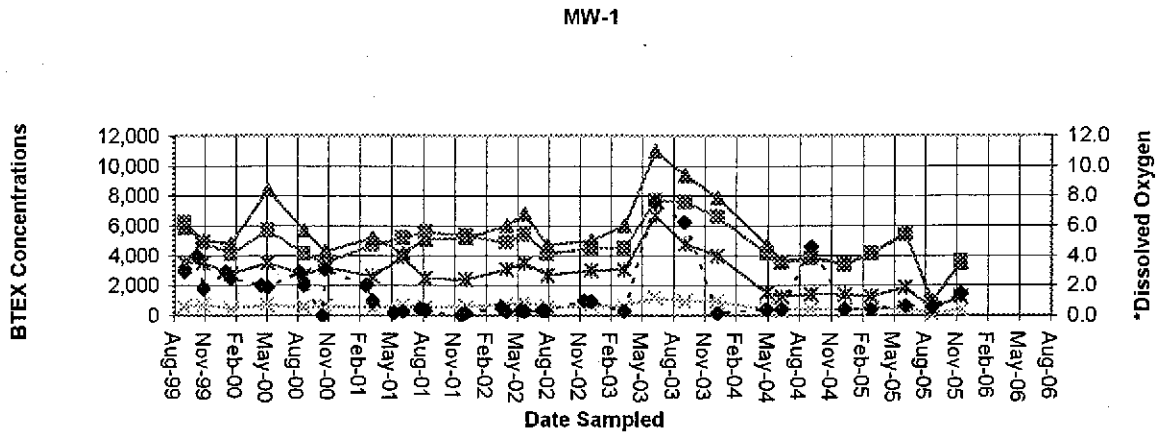
APPROVED
APPROVED DATE



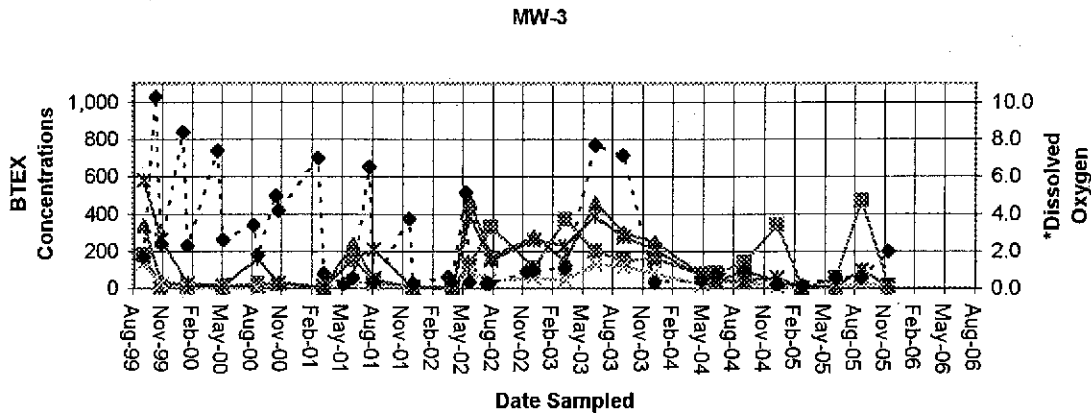
TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
 Fourth Quarter 2005
 1700 Jefferson Street
 BPS Reprographic Services Facility
 Oakland, California

PLATE
4

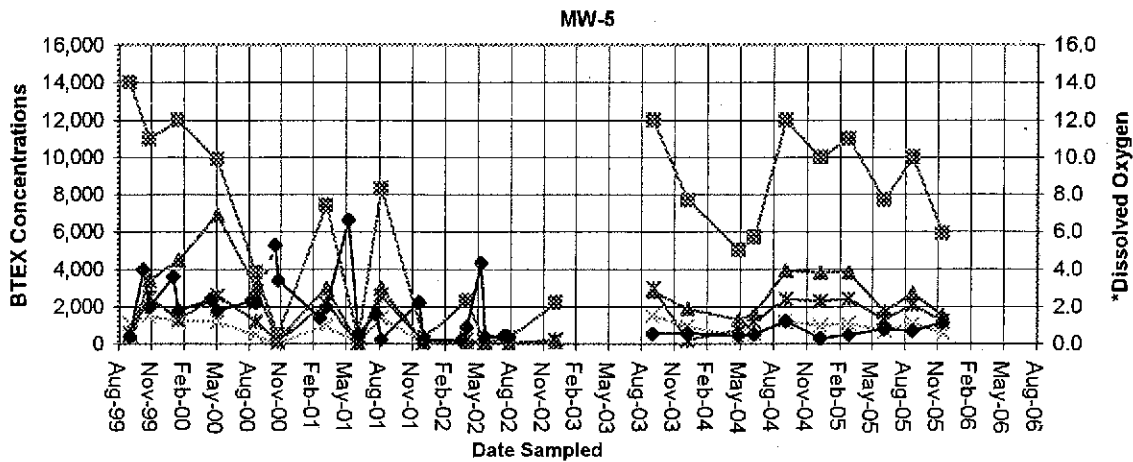
DRAWN CN	JOB NUMBER 4097041918 01	CHECKED	CHECKED DATE 04/06	APPROVED	APPROVED DATE
-------------	-----------------------------	---------	-----------------------	----------	---------------



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



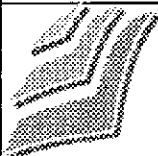
(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC removed after Sept. 2002.)



(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.)

Benzene (µg/L)
 Toluene (µg/L)
 Ethylbenzene (µg/L)
 Total Xylenes (µg/L)
 Dissolved Oxygen (mg/L)

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



MACTEC

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

Plate
5

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

APPENDIX A
LABORATORY REPORTS



December 20 , 2005

David Nanstad
MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954

RE: BPS City Blue
Work Order: MOL0065

Enclosed are the results of analyses for samples received by the laboratory on 12/03/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate Number 1210





MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
05484097-4	MOL0065-01	Water	12/02/05 09:10	12/03/05 10:00
05484097-2	MOL0065-02	Water	12/02/05 09:40	12/03/05 10:00
05484097-3	MOL0065-03	Water	12/02/05 10:12	12/03/05 10:00
05484097-1	MOL0065-04	Water	12/02/05 10:45	12/03/05 10:00
05484097-5	MOL0065-05	Water	12/02/05 10:50	12/03/05 10:00





MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
05484097-4 (MOL0065-01) Water Sampled: 12/02/05 09:10 Received: 12/03/05 10:00									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L06027	12/06/05	12/06/05	EPA 8015B/8021B	
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		107 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %		80-120	"	"	"	"	S01
05484097-2 (MOL0065-02) Water Sampled: 12/02/05 09:40 Received: 12/03/05 10:00									
Gasoline Range Organics (C4-C12)	760	100	ug/l	2	5L06027	12/06/05	12/07/05	EPA 8015B/8021B	
Benzene	14	1.0	"	"	"	"	"	"	
Toluene	8.0	1.0	"	"	"	"	"	"	
Ethylbenzene	2.4	1.0	"	"	"	"	"	"	
Xylenes (total)	17	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %		80-120	"	"	"	"	
05484097-3 (MOL0065-03) Water Sampled: 12/02/05 10:12 Received: 12/03/05 10:00									
Gasoline Range Organics (C4-C12)	21000	10000	ug/l	200	5L06027	12/06/05	12/07/05	EPA 8015B/8021B	
Benzene	5900	100	"	"	"	"	"	"	
Toluene	1500	100	"	"	"	"	"	"	
Ethylbenzene	600	100	"	"	"	"	"	"	
Xylenes (total)	1200	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %		80-120	"	"	"	"	





MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
05484097-1 (MOL0065-04) Water Sampled: 12/02/05 10:45 Received: 12/03/05 10:00									
Gasoline Range Organics (C4-C12)	19000	5000	ug/l	100	5L06027	12/06/05	12/07/05	EPA 8015B/8021B	
Benzene	3600	50	"	"	"	"	"	"	
Toluene	3500	50	"	"	"	"	"	"	
Ethylbenzene	410	50	"	"	"	"	"	"	
Xylenes (total)	1300	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		108 %		80-120	"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		115 %		80-120	"	"	"	"	





MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
05484097-3 (MOL0065-03) Water Sampled: 12/02/05 10:12 Received: 12/03/05 10:00									
1,2-Dichloroethane	320	50	ug/l	100	5L14023	12/14/05	12/15/05	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>108 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
05484097-1 (MOL0065-04) Water Sampled: 12/02/05 10:45 Received: 12/03/05 10:00									
1,2-Dichloroethane	300	50	ug/l	100	5L14023	12/14/05	12/15/05	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>113 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	





MACTEC Engineering & Consulting [Petaluma] 5341 Old Redwood Highway, Suite 300 Petaluma CA, 94954	Project: BPS City Blue Project Number: 4097041918.01 Project Manager: David Nanstad	MOL0065 Reported: 12/20/05 09:26
---	---	--

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5L06027 - EPA 5030B [P/T] / EPA 8015B/8021B

Blank (5L06027-BLK1)

Prepared & Analyzed: 12/06/05

Gasoline Range Organics (C4-C12)	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	85.0		"	80.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	91.6		"	80.0		114	80-120			

Laboratory Control Sample (5L06027-BS1)

Prepared & Analyzed: 12/06/05

Gasoline Range Organics (C4-C12)	229	50	ug/l	275		83	55-130			
Benzene	4.03	0.50	"	4.10		98	75-150			
Toluene	19.8	0.50	"	20.7		96	80-115			
Ethylbenzene	3.99	0.50	"	4.85		82	75-115			
Xylenes (total)	22.8	0.50	"	23.8		96	75-115			
Surrogate: a,a,a-Trifluorotoluene	73.6		"	80.0		92	80-120			
Surrogate: 4-Bromofluorobenzene	93.0		"	80.0		116	80-120			

Matrix Spike (5L06027-MS1)

Source: MOL0097-01

Prepared & Analyzed: 12/06/05

Gasoline Range Organics (C4-C12)	238	50	ug/l	275	31	75	55-130			
Benzene	3.80	0.50	"	4.10	ND	93	75-150			
Toluene	18.9	0.50	"	20.7	ND	91	80-115			
Ethylbenzene	3.85	0.50	"	4.85	ND	79	75-115			
Xylenes (total)	21.8	0.50	"	23.8	ND	92	75-115			
Surrogate: a,a,a-Trifluorotoluene	76.1		"	80.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	94.3		"	80.0		118	80-120			

Matrix Spike Dup (5L06027-MSD1)

Source: MOL0097-01

Prepared & Analyzed: 12/06/05

Gasoline Range Organics (C4-C12)	229	50	ug/l	275	31	72	55-130	4	35	
Benzene	3.99	0.50	"	4.10	ND	97	75-150	5	25	
Toluene	19.7	0.50	"	20.7	ND	95	80-115	4	25	
Ethylbenzene	3.97	0.50	"	4.85	ND	82	75-115	3	25	
Xylenes (total)	22.9	0.50	"	23.8	ND	96	75-115	5	25	
Surrogate: a,a,a-Trifluorotoluene	82.7		"	80.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	80.0		119	80-120			

Sequoia Analytical - Morgan Hill

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 Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5L14023 - EPA 5030B P/T / EPA 8260B										
Blank (5L14023-BLK1)					Prepared: 12/14/05 Analyzed: 12/15/05					
1,2-Dichloroethane	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	5.64		"	5.00		113	60-135			
Laboratory Control Sample (5L14023-BS1)					Prepared & Analyzed: 12/14/05					
1,2-Dichloroethane	11.0	0.50	ug/l	10.0		110	85-130			
Surrogate: 1,2-Dichloroethane-d4	5.76		"	5.00		115	60-135			
Matrix Spike (5L14023-MS1)					Source: MOL0239-02 Prepared & Analyzed: 12/14/05					
1,2-Dichloroethane	120	5.0	ug/l	100	ND	120	85-130			
Surrogate: 1,2-Dichloroethane-d4	5.29		"	5.00		106	60-135			
Matrix Spike Dup (5L14023-MSD1)					Source: MOL0239-02 Prepared & Analyzed: 12/14/05					
1,2-Dichloroethane	117	5.0	ug/l	100	ND	117	85-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	5.61		"	5.00		112	60-135			





MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

Notes and Definitions

- S01 The surrogate recovery was above control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





MACTEC Engineering & Consulting [Petaluma]
5341 Old Redwood Highway, Suite 300
Petaluma CA, 94954

Project: BPS City Blue
Project Number: 4097041918.01
Project Manager: David Nanstad

MOL0065
Reported:
12/20/05 09:26

Notes and Definitions

S01 The surrogate recovery was above control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference





6341 Old Redwood Highway
Suite 300
Petaluma, CA 94954
(707) 793-3800

CHAIN OF CUSTODY - CRM

Seq. No.: No 2145

Samplers: Chad Simpson

Lab: Seq

Job Number: 4097041918.01

Name/Location: BPS City Blue

Project Manager: David Manstad Recorder: chj
(Signature Required)

Matrix	MATRIX			# CONTAINERS & PRESERV.			SAMPLE NUMBER		DATE				
	Water	Soil	Air	Unpres.	H2SO4	HNO3	HCL	YR	SEQ	YR	MO	DAY	TIME
							3	05484097-4	05	12	20	09	10
							3	05484097-2	05	12	20	09	40
							6	05484097-3	05	12	20	10	12
							6	05484097-1	05	12	20	10	45
							1	05484097-5	05	12	20	10	50

MOL0065

STATION DESCRIPTION	DEPTH
	-01
	-02
	-03
	-04
see remarks	-05

ANALYSIS REQUESTED	TPH-g B015		BTX-g B020		MTBE B030 *		EPA-g B040	
	YR	SEQ	YR	SEQ	YR	SEQ	YR	SEQ

Signature: chj 12/2/05

ADDITIONAL INFORMATION		
SAMPLE NUMBER		TURNAROUND TIME/ REMARKS
YR	SEQ	
		Standard TAT
		* MTBE Confirmed using EPA 8260
05	484097-5	Hold sample

CHAIN OF CUSTODY RECORD			
<u>chj</u>	Chad Simpson	Mactec	12/2/05 1500
Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
<u>Gail Herrmann</u>	GAIL HERRMANN	Aquaria	12/1/05 1500
Received By (Signature)	(Print Name)	(Company)	Date/Time
<u>Gail Herrmann</u>	GAIL HERRMANN	Seawoia	12/2/05 1700
Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
<u>can</u>			12/2/05 1700
Received By (Signature)	(Print Name)	(Company)	Date/Time
<u>E. Fallini</u>	E. Fallini	SA	12/3/05 1000
Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
Method of Shipment:			

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	Sample ID
MW-1	05484097-1
MW-3	05484097-2
MW-5	05484097-3
MW-6	05484097-4
Trip Blank	05484097-5

Project: _____ Job No.: 4097041918-01
 Subject: **FIELD INVESTIGATION DAILY REPORT** Date: 12/02/05
 Equipment Rental: _____ Company: Moctec To: A. Nantel
 Equipment Hours: _____ F.E. Time from: _____ to: _____ By: C. Sanguin

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

0600 Depart Suisun City toward Oakland
 0725 Arrive at BPS - Oakland
 0730 Calibrate meters.

YST 03 Ph, Cond, Temp SW 0000186 at 7.00/4.00
 Do YST 55 SW 0100873 to "0" elevation
 Tubidity SW 920500001210
 0-10 = 4.97 10-100 = 50.5 100-1,000 = 535

0800 2 MW-6 WL = 23.05
 D.O. = .99 Relax = .020

0820 2 MW-3 WL = 23.03
 D.O. = 2.01 Relax = -141

0845 2 MW-5 WL = 22.19
 DO = 1.13 Relax = -103

0900 2 MW-1 WL = 23.75
 DO = 1.45 Relax = -26.2

2 MW-1A - car parked on top of MW-4, can't find

0910 2 MW-6 Sampled # 05484097-4

0940 2 MW-3 Sampled # 05484097-2

1012 2 MW-5 Sampled # 05484097-3

1045 2 MW-1 Sampled # 05484097-1

1050 Sampled # 05484097-5 (TB)

1100 Depart Site, picked up Ice

Attachments:

Initial



GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 097041918.01
Recorded By: [Signature]

Well Number: MW-1
Well Type: [X] Monitor [] Extraction [] Other
[X] PVC [] St. Steel [] Other
Date: 12 10 2005
Sampled By: C.C.S. (Initials)

Reviewed by

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 2.411
Total Depth of Casing (TD in ft BTOC): 33.50
Water Level Depth (WL in ft BTOC): 23.75
No. of Well Volumes to be purged (# V): 1

PURGE METHOD

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

PURGE VOLUME CALCULATION

() x 3 x 0.0408 = gals
TD (feet) WL (feet) D (inches) # V Calculated Purge Volume

PUMP INTAKE SETTING

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

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (µS), Temp. (°C/°F), Turbidity (NTU). Row 1: 12, 6.53, 591, 16.4, 6.76

PURGE TIME

Purge Start: 1045
Purge Stop: 1055
Elapsed: 10

PURGE RATE

GPM:
GPM:

PURGE VOLUME

Volume: 10.5 gallons
D.O. 1.45 Redox -26.2

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

Clear - no odor

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

WELL SAMPLING

[] Bailer - Type: 9/45 Sample Time: 1045

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Row 1: 05484097-1, 6 VOA's, T.P.H gas (8015 Modified), HCL, Sequoia

QUALITY CONTROL SAMPLES

Table for Duplicate Samples with columns: Original Sample No., Dupl. Sample No.

Table for Blank Samples with columns: Type, Sample No.

Table for Other Samples with columns: Type, Sample No.



GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 4097041918.01
Recorded By: [Signature]

Well Number: MW-5
Well Type: Monitor, PVC
Date: 12/02/05
Sampled By: C.C.S.

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): 22.19
No. of Well Volumes to be purged (#V): 1

PURGE METHOD

Bailer - Type:
Submersible - Type:
Other - Type: Micro Purge

PURGE VOLUME CALCULATION

() x 2 x 3 x 0.0408 = gals
TD (feet) WL (feet) D (inches) #V Calculated Purge Volume

PUMP INTAKE SETTING

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

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (uS), Temp. (C/F), Turbidity (NTU). Row 1: 1, 7.63, 750, 16.8, 20.8

PURGE TIME

Purge Start: 1012
Purge Stop: 1022
Elapsed: 10 min

PURGE RATE

GPM: /

PURGE VOLUME

Volume: 1 ct. gallons
D.O. 1.13 Redox -108

Observations During Purging (Well Condition, Color, Odor): Clear w/ D.O. smell

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

WELL SAMPLING

Bailer - Type: grab Sample Time: 1012

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Row 1: 05484097-3, 6 VOA's, T.P.H gas (8015 Modified), HCL, Sequoia

QUALITY CONTROL SAMPLES

Duplicate Samples table with columns: Original Sample No., Dupl. Sample No.

Blank Samples table with columns: Type, Sample No.

Other Samples table with columns: Type, Sample No.



GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 4097041918.01
Recorded By: [Signature]

Well Number: MW-3
Well Type: [X] Monitor [] Extraction [] Other
[X] PVC [] St. Steel [] Other
Date: 12/02/05
Sampled By: C.C.S. (initials)

Reviewed by

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 4" *
Total Depth of Casing (TD in ft BTOC): 31.00
Water Level Depth (WL in ft BTOC): 23.03
No. of Well Volumes to be purged (#V): 1

PURGE METHOD

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

PURGE VOLUME CALCULATION

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

PUMP INTAKE SETTING

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

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (µS), Temp. (°C/°F), Turbidity (NTU). Row 1: 16, 5.89, 39.1, 17.6, 0.13

PURGE TIME

Purge Start: 0940
Purge Stop: 0949
Elapsed: 09 min

PURGE RATE

GPM:
GPM:

PURGE VOLUME

Volume: 1 ct. gallons
D.O. 2.01 Redox -141

Observations During Purging (Well Condition, Color, Odor):
Clear - slight odor

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

WELL SAMPLING

[] Bailer - Type: gas Sample Time: 0940

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Row 1: 05484097-2, 3 VOA's, T.P.H gas (8015 Modified), HCL, Sequoia

QUALITY CONTROL SAMPLES

Duplicate Samples table with columns: Original Sample No., Dupl. Sample No.

Blank Samples table with columns: Type, Sample No.

Other Samples table with columns: Type, Sample No.



GROUNDWATER SAMPLING FORM

Job Name: City Blue
Job Number: 4097041918.01
Recorded By: [Signature]

Well Number: MW-6
Well Type: [X] Monitor [] Extraction [] Other
[X] PVC [] St. Steel [] Other
Date: 12/02/05
Sampled By: C.C.S. (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): 23.05
No. of Well Volumes to be purged (# V): 1

PURGE METHOD

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

PURGE VOLUME CALCULATION

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

PUMP INTAKE SETTING

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

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (uS), Temp. (C/F), Turbidity (NTU). Row 1: 1 Lt, 7.10, 511, 16.7, 197.

PURGE TIME PURGE RATE

Purge Start: 0910 GPM:
Purge Stop: 0920 GPM:
Elapsed: 10 min.

PURGE VOLUME

Volume: 1 Lt. gallons
D.O. .99 Redox 029

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

Clearly - no smell

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

WELL SAMPLING

[] Bailer - Type: grab Sample Time: 0910

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Row 1: 05484097-4, 3 VOA's, T.P.H gas (8015 Modified), HCL, Sequoia.

QUALITY CONTROL SAMPLES

Duplicate Samples table with columns: Original Sample No., Dupl. Sample No.

Blank Samples table with columns: Type, Sample No.

Other Samples table with columns: Type, Sample No.

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	12/02/05	0910	23.75	23.75	Y	N	G	G	4"	
MW-3	12/02/05	0840	23.03	23.03	Y	N	G	G	4"	
MW-5	12/02/05	0855	22.19	22.19	Y	N	G	G	2"	
MW-6	12/02/05	0815	23.05	23.05	Y	N	G	G	2"	
MW-1A										
MW-4	12/02/05	1040	23.07	23.07	Y	N	G	G	2"	

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

pH: SN: 00M0186 to 7.00 / 4.00

Temperature: " "

Specific Conductance: " "

Dissolved Oxygen: SN: 0100073

Turbidity: SN: 920500001210