MACTEC

January 5, 2007

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

Subject: **Groundwater Remediation and Monitoring Report**
Third Quarter 2006
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California
MACTEC Project No. 4097041918 01

Dear Mr. Blain:

MACTEC Engineering and Consulting, Inc. (MACTEC) 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 Third Quarter 2006 (July through September), 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. Subsequent investigation indicated the presence of free phase hydrocarbons (FPH) in groundwater beneath the site and a local groundwater gradient direction that ranges from north-northwest to west.

The existing groundwater monitoring wells (MW-1, MW-3, MW-5, and MW-6) and extraction wells (MW-1A and MW-4) are shown on Plate 1. Groundwater extraction and treatment began in 1992. The treatment system consisted of an oil-water separator that removed the FPH, a 3,000-gallon bioreactor tank for treatment by hydrocarbon reducing microbes, and three granular activated carbon vessels. The treated water was discharged under a wastewater discharge permit from the East Bay Municipal Utility District to the sanitary sewer. During its operation, 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. In June of 1999, as approved by the ACHCS, groundwater extraction and treatment ceased. In September 1999, MACTEC implemented *in-situ* bioremediation using ORC™ in treatment wells MW-1A, MW-3, MW-4, and MW-5. The ORC™ is contained in fabric "socks" which release oxygen over time to encourage aerobic microbes to metabolize the hydrocarbons. As described in the Groundwater Monitoring Plan, the ORC™ socks were removed from the treatment wells two weeks before each quarterly groundwater monitoring event, then replaced after sampling is complete. *In-situ* bioremediation continued until the Fourth Quarter 2002. In late 2002 and early 2003, MACTEC removed the ORC™ socks from the monitoring wells, as requested by the ACHCS in their letter dated September 27, 2002. Since then, the ORC has not been replaced; however, quarterly monitoring has continued.

THIRD QUARTER 2006 GROUNDWATER SAMPLING AND ANALYSIS

On September 13, 2006, MACTEC conducted quarterly groundwater monitoring of MW-1, MW-3, MW-5, and MW-6 (Plate 1) using a non-purge method, in accordance with the SFBRWQCB January 31, 1997 letter *Utilization of Non-Purge Approach for Sampling of Monitoring Wells Impacted by Petroleum Hydrocarbons, BTEX and MTBE,* file No. 1123.64.

Table 1 shows groundwater field parameters, including DO, collected prior to sampling. During the Third quarter 2006 event, the DO concentrations ranged from 0.6 mg/L in MW-1 to 1.5 mg/L in MW-5. 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. Current and historical measurements and calculated groundwater elevations 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.

The groundwater elevation contours shown on Plate 3 were drawn using the September 13, 2006 groundwater measurements from MW-1, MW-3, MW-5, and MW-6. Based on the groundwater elevations, the groundwater gradient is approximately 0.005 ft/ft. The direction of flow appears to be in the west-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 TPHg, BTEX, and MTBE collected through September 29, 1999 are shown in Table 3. Third Quarter 2006 analytical results for TPHg, BTEX, MTBE, and EDC are displayed on Plate 4. Analytical results collected since September 29, 1999 are shown in Table 4 and presented graphically on Plates 5a, 5b, and 5c. The certified analytical reports (CARs) are presented in Appendix A.

DISCUSSION

As shown in Table 4 and Plates 5a, 5b, and 5c, Third Quarter 2006 monitoring event concentrations of TPHg and BTEX are within the range of historical concentrations of these compounds. The range of chemical concentrations detected in samples collected during the Third Quarter 2006 event are as follows:

- TPHg ranged from non-detectable with a detection limit of 0.05 milligrams (mg/L; MW-6) to 20 mg/l (MW-1).
- Benzene ranged from non-detectable with a detection limit of 0.5 micrograms per liter (ug/L; MW-6) to 4,500 ug/L (MW-1).
- Toluene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 3,900 ug/L (MW-1).
- Ethylbenzene ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 400 ug/L (MW-1).
- Total Xylenes ranged from non-detectable with a detection limit of 0.5 ug/L (MW-6) to 1,400 ug/L (MW-1).
- 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 250 ug/L (MW-1).
- EDC was detected in MW-1 at a concentration of 260 ug/L and in MW-5 at a concentration 55 ug/L.

An overview of recent concentration trends observed in each monitoring well is presented below.

As indicated on Plate 5a, chemical concentrations at MW-1 peaked during the Second Quarter 2003 monitoring event, decreased to unusually low levels during the Third Quarter 2005, and increased again through the First Quarter 2006. Third Quarter 2006 concentrations of TPHg, benzene and toluene in MW-1 have all decreased since the First and Second Quarter 2006. Third Quarter 2006 concentrations of

ethylbenzene and total xylenes in MW-1 have all increased since the Second Quarter 2006 but are still below recent First Quarter 2006 peak values.

As indicated on Plate 5b, significant spikes in TPHg, ethylbenezene, toluene, and xylenes concentrations occurred in MW-3 during the Second Quarter 2003 monitoring event and spikes in benzene in MW-3 occurred during the Fourth Quarter 2004 and Third Quarter 2005 monitoring events. However, since Second Quarter 2004, the overall concentrations in MW-3 have been low and relatively stable. Third Quarter 2006 concentration data in MW-3 indicate a slight increase in TPHg and BTEX compared to Second Quarter 2006 data.

As indicated on Plate 5c, chemical concentrations in MW-5 increased significantly in the Third Quarter 2003 and remained elevated through the Third Quarter 2005. Since then, TPHg and BTEX concentrations have followed decreasing trends with historical lows monitored during the First and Second Quarter 2006. Third Quarter 2006 TPHg and BTEX concentrations were elevated compared to Second Quarter 2006 but remain low compared to historical values.

Typically, groundwater collected from MW-6 contains no detectable concentrations of TPHg or BTEX compounds. Third Quarter 2006 monitoring data for MW-6 indicates no TPHg or BTEX compounds were detected in this well. MW-6 will continue to be monitored for these analytes.

Beginning in the Fourth Quarter 2002, EDC was added to the list of analytes monitored at MW-1 and MW-5. The current concentrations of EDC detected in MW-1 and MW-5 (260 ug/L and 55 ug/L, respectively) represent an increase from the Second Quarter 2006 non-detectable results, but are similar to concentrations detected during previous quarters. EDC concentrations in both wells remain within their respective historical concentration ranges.

RECOMMENDATIONS

MACTEC recommends continued groundwater monitoring at the Site to satisfy the quarterly groundwater monitoring requirements of the ACHCS and continued evaluation of monitoring parameters for more favorable conditions under which to make a monitoring frequency reduction request. 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 ACHCS.

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

Yours very truly,

MACTEC ENGINEERING AND CONSULTING, INC.

David S. Nanstad, REA
Project Engineer

Susan K. Panttaja, PG
Senior Geologist

Richard Manser
Principal Scientist

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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

Plate 1 – Site Map
Plate 2 – Groundwater Elevation Data
Plate 3 – Groundwater Contours
Plate 4 – TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
Plate 5a – MW-1 BTEX and DO Results
Plate 5b – MW-3 BTEX and DO Results
Plate 5c – MW-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
11/5/1999	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[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[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
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
3/24/2006	0.8	0.7	0.9	0.9
6/29/2006	1.1	1.1	0.7	1.2
9/13/2006	0.6	1.0	1.5	1.1

Checked SKP

Approved BJ

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

REDOX (mvolts)	MW-1	MW-3	MW-5	MW-6
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
6/23/2005	-225	-42	-117	109
9/9/2005	-30	-52	-152	98
12/2/2005	-26	-141	-108	20
3/24/2006	-179	-118	-112	87
6/29/2006	-202	-182	-151	6
9/13/2006	-270	-257	-222	36
Temperature (deg F)	**MW-1**	**MW-3**	**MW-5**	**MW-6**
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

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

Temperature (deg F)	MW-1	MW-3	MW-5	MW-6
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
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
3/24/2006	63.7	66.4	65.3	62.6
6/29/2006	69.3	68.2	71.2	72.1
9/13/2006	64.8	66.6	65.7	68.5
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
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
3/24/2006	7.1	7.6	6.8	7.4
6/29/2006	6.5	6.1	7.3	7.0
9/13/2006	6.9	7.4	6.6	8.3

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

Specific Conductance (µS/cm)	MW-1	MW-3	MW-5	MW-6
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
6/23/2005	799	102	718	814
9/9/2005	852	103	817	881
12/2/2005	891	39	750	811
3/24/2006	1156	208	996	1042
6/29/2006	1113	658	795	932
9/13/2006	1088	591	873	650

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 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																									
TPHg (mg/L)	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	560	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	6,300	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.

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

		3/16/2005	6/23/2005	9/9/2005	12/2/2005	3/24/2006	6/29/2006	9/13/2006
TPHg (mg/L)								
	MW-1	21	30	7.1	19	29	23	20
	MW-3	0.97	0.85	3.9	0.76	0.59	1.1	1.3
	MW-5	37	27	46	21	ND<10	1.2	5.8
	MW-6	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	4,100	5,400	840	3,600	6,200	4,800	4500
	MW-3	1.4	56	470	14	83	130	260
	MW-5	11,000	7,700	10,000	5900	2800	240	1600
	MW-6	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	4,200	5,500	950	3,500	6,000	4,000	3900
	MW-3	1.8	7.3	100	8	41	38	71
	MW-5	3,800	1,700	2,700	1500	450	11	210
	MW-6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethylbenzene (µg/L)								
	MW-1	470	520	120	410	620	330	400
	MW-3	0.66	ND<5	33	2.4	7.3	16	44
	MW-5	1,100	680	1,100	600	190	13	180
	MW-6	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	1,300	1,900	410	1,300	2,000	1,200	1400
	MW-3	2.9	12	96	17	33	21	28
	MW-5	2,400	1,300	2,100	1200	180	18	270
	MW-6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MTBE (µg/L)								
	MW-1	ND<50[1]	ND<1,200	ND<120	ND<2.5	ND<500	ND<500	ND<250
	MW-3	ND<2.5	ND<25	ND<62	ND<0.5	ND<12	ND<25	ND<25
	MW-5	ND<120	ND<1,200	ND<1,200	ND<500	ND<500	ND<2.5	ND<120
	MW-6	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
Ethylene Dichloride (µg/L)								
	MW-1	190	240	290	300	280	ND<0.50	260
	MW-3	NR	NR	NR	NR	NR	NR	NR
	MW-5	610	190	300	320	330	ND<0.50	55
	MW-6	NR	NR	NR	NR	NR	NR	NR

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

		Date Sampled																				
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
	MW-1	14	24	19	19	20	18	19	39	31	34	35	35	26	28	16	61	59	46	23	24	24	22
	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
	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
	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
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
	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
	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
	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
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
	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
	MW-5	470	3,400	4,500	6,900	3,900	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
	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
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
	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
	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
	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
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
	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
	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]	3900	210	770	1,200	2,400	2,300
	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
MTBE (µg/L)																							
	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
	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]
	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
	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
Ethylene Dichloride (µg/L)																							
	MW-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370	ND<120	400	500	360	320	320	260	180
	MW-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<12	NR	NR	NR	NR	NR	NR	NR	NR
	MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*220	[4]NA	[4]NA	610	410	290	610	670	290
	MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.5	NR	NR	NR	NR	NR	NR	NR	NR

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
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)
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.
7 EDC Detected at same concentration as detection limit.

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

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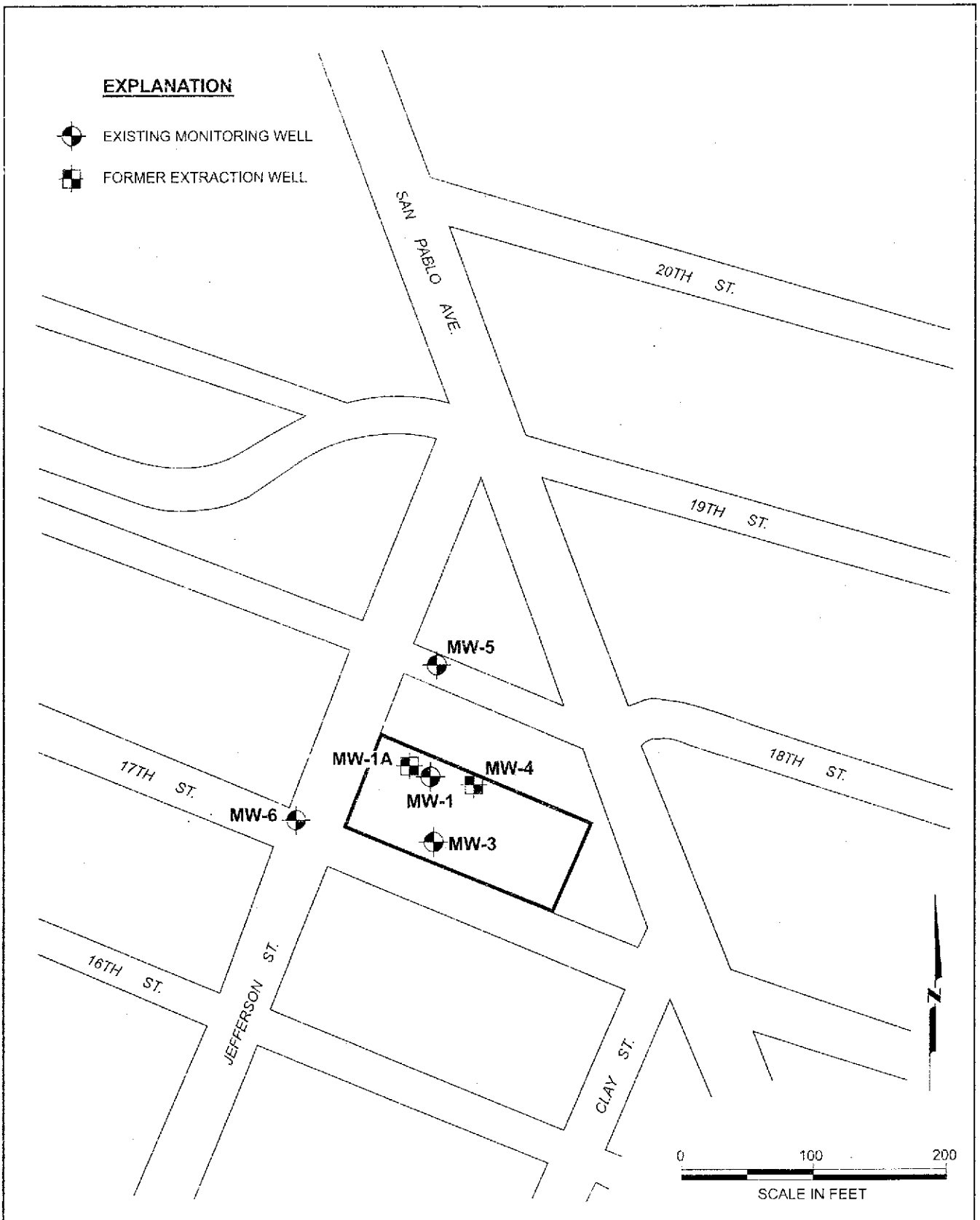
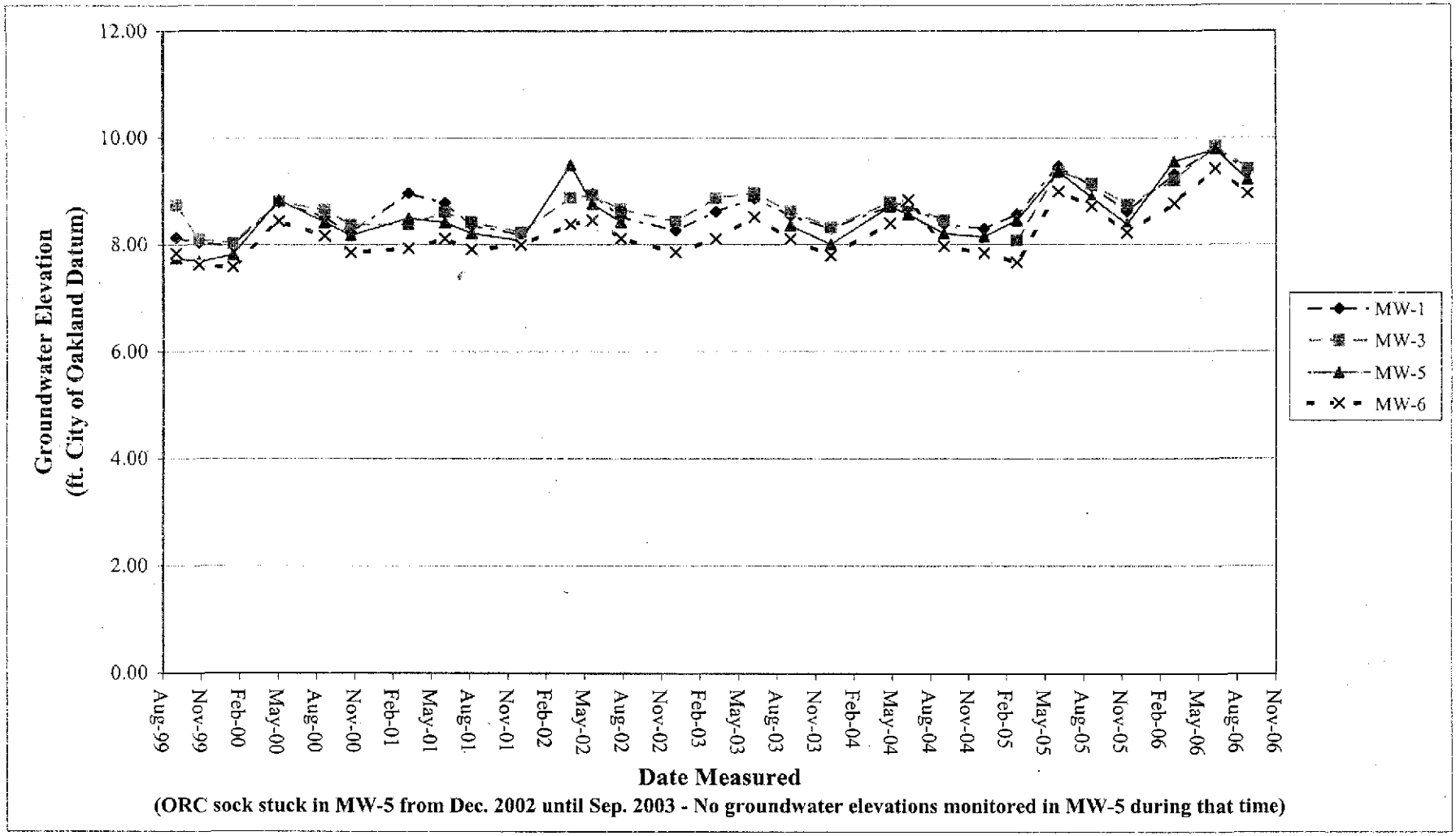


MACTEC

Site Map
Third Quarter 2006
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE **1**

DRAWN	PROJECT NUMBER	CHECKED	CHECKED DATE	APPROVED	APPROVED DATE
CN	4097041918 01		12/06		12/6



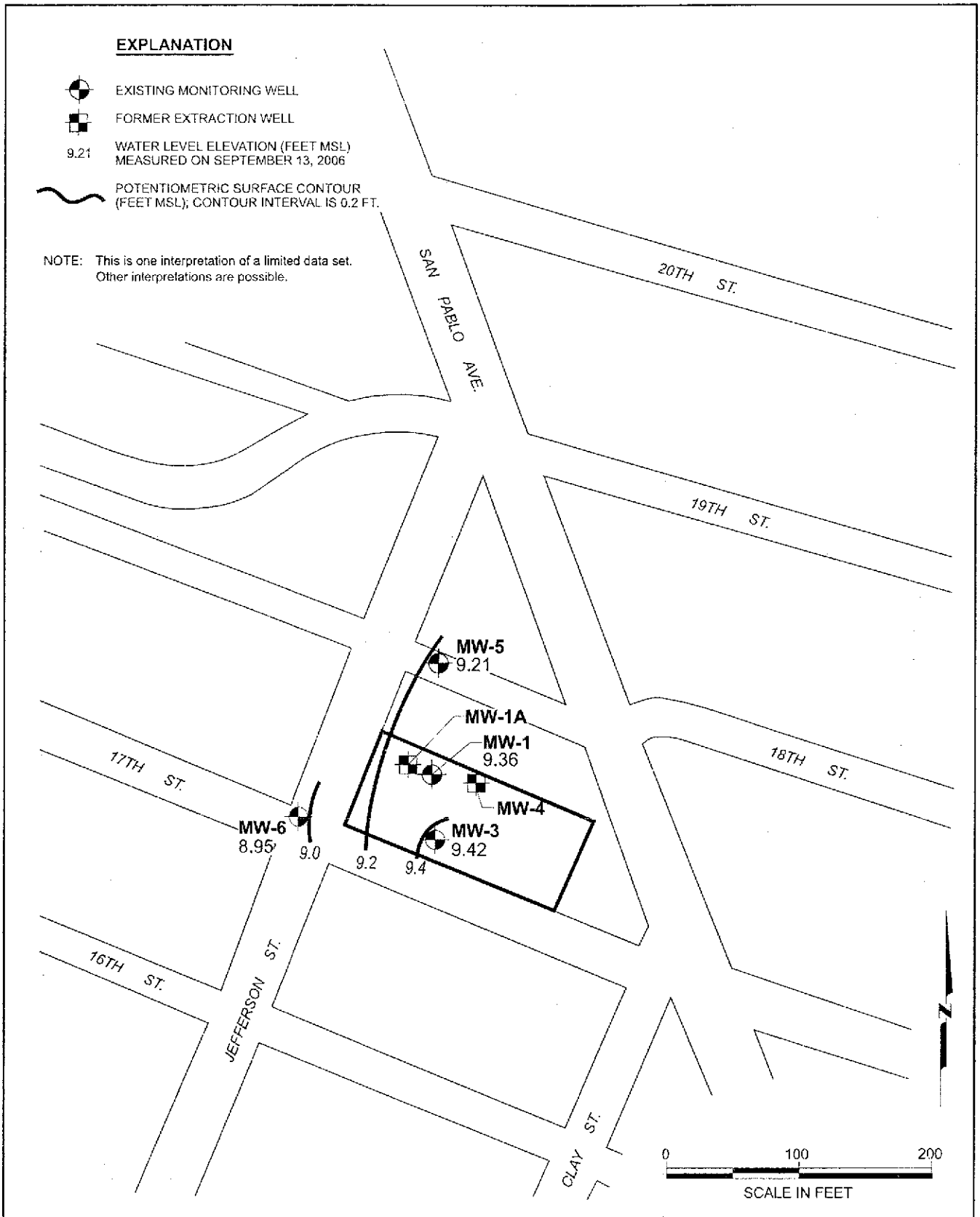
(ORC sock stuck in MW-5 from Dec. 2002 until Sep. 2003 - No groundwater elevations monitored in MW-5 during that time)

MACTEC

Groundwater Elevation Data
Third Quarter 2006
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4097041918	DSN SLP	12/06	

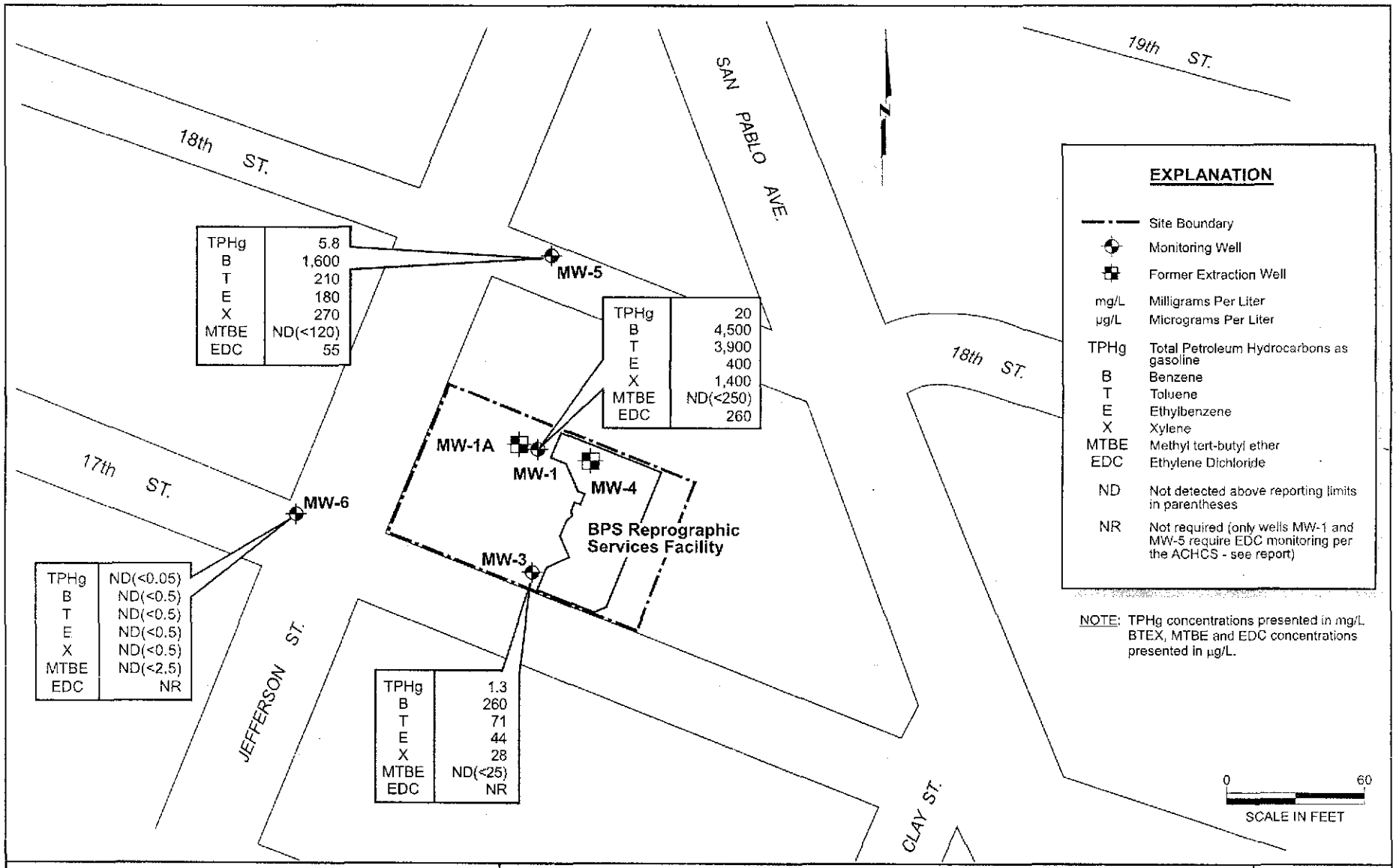


MACTEC

Groundwater Contours
Third Quarter 2006
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE **3**

DRAWN	PROJECT NUMBER	CHECKED	CHECKED DATE	APPROVED	APPROVED DATE
CN	4097041918 01		12/06		12/06

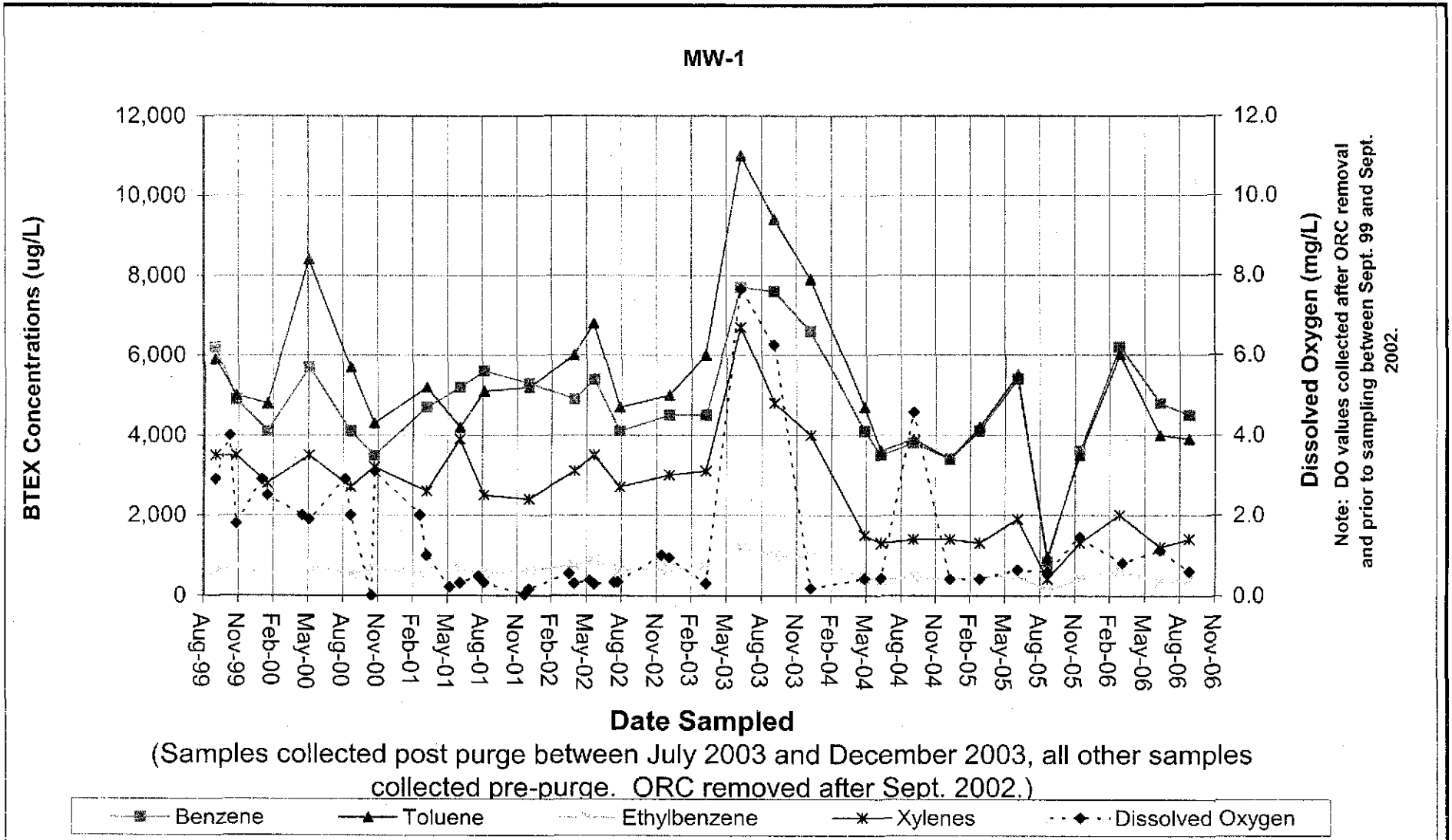


MACTEC

TPHg, BTEX, MTBE and EDC Concentrations in Groundwater
Third Quarter 2006
1700 Jefferson Street
BPS Reprographic Services Facility
Oakland, California

PLATE **4**

DRAWN	JOB NUMBER	CHECKED	CHECKED DATE	APPROVED	APPROVED DATE
CN	4097041918 01		12/06		12/16



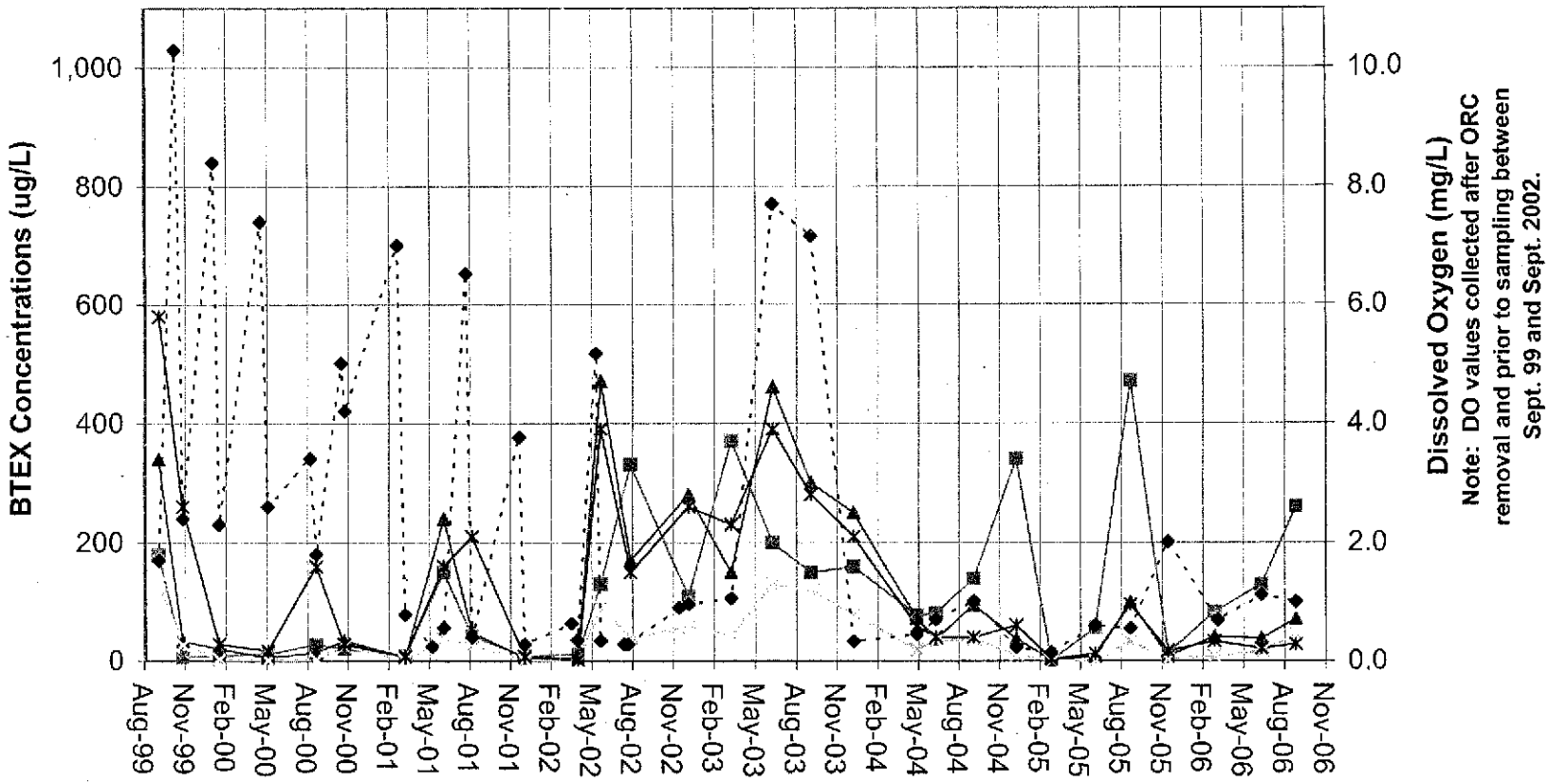
MACTEC

MW-1 BTEX and DO Results
Third Quarter 2006
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5a

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4097041918		12/06	

MW-3



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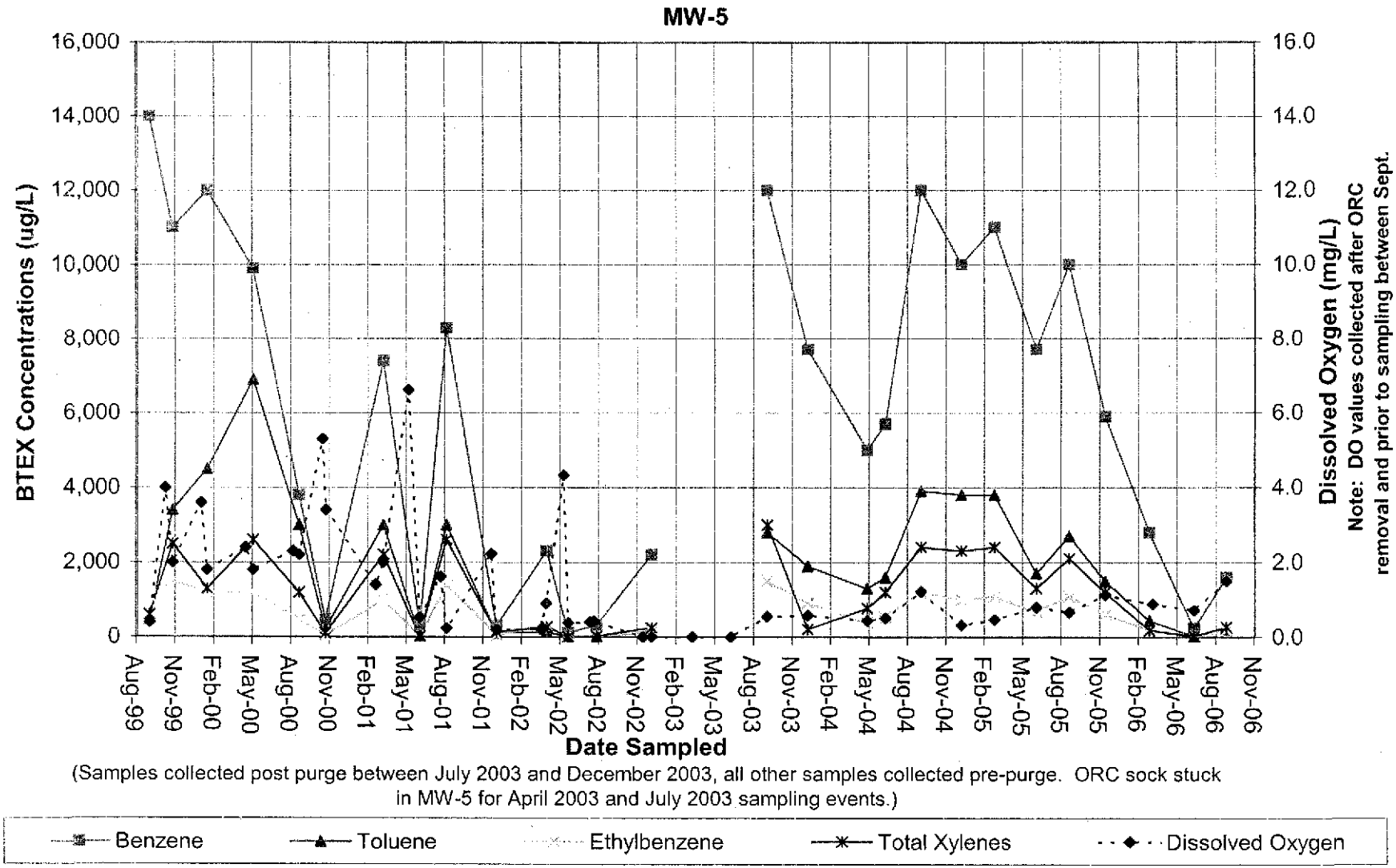
MW-3 BTEX and DO Results
Third Quarter 2006
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5b

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4097041918		12/06	



(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.)

MACTEC

MW-5 BTEX and DO Results
Third Quarter 2006
BPS Reprographic Services Facility
1700 Jefferson Steet
Oakland, California

Plate
5c

DRAWN	JOB NUMBER	APPROVED	DATE	REVISION DATE
DSN	4097041918		12/06	

APPENDIX A

LABORATORY REPORTS

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

10 October, 2006

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

RE: BPS City Blue
Work Order: MPI0490

Enclosed are the results of analyses for samples received by the laboratory on 09/15/06 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MPI0490
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4097041918-4	MPI0490-01	Water	09/13/06 08:18	09/15/06 10:15
4097041918-2	MPI0490-02	Water	09/13/06 08:45	09/15/06 10:15
4097041918-1	MPI0490-03	Water	09/13/06 09:05	09/15/06 10:15
4097041918-3	MPI0490-04	Water	09/13/06 09:35	09/15/06 10:15
4097041918-5	MPI0490-05	Water	09/13/06 09:45	09/15/06 10:15

TestAmerica
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www.testamericainc.com

MACTEC Engineering & Consulting [Petaluma]	Project: BPS City Blue	MPI0490
5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4097041918-4 (MPI0490-01) Water Sampled: 09/13/06 08:18 Received: 09/15/06 10:15									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6I26001	09/26/06	09/26/06	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		*112 %*		*85-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*75-125*	"	"	"	"	
4097041918-2 (MPI0490-02) Water Sampled: 09/13/06 08:45 Received: 09/15/06 10:15									
Gasoline Range Organics (C4-C12)	**1300**	500	ug/l	10	6I26001	09/26/06	09/26/06	EPA 8015B/8021B	
Benzene	**260**	5.0	"	"	"	"	"	"	
Toluene	**71**	5.0	"	"	"	"	"	"	
Ethylbenzene	**44**	5.0	"	"	"	"	"	"	
Xylenes (total)	**28**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*		*85-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*		*75-125*	"	"	"	"	
4097041918-1 (MPI0490-03) Water Sampled: 09/13/06 09:05 Received: 09/15/06 10:15									
Gasoline Range Organics (C4-C12)	**20000**	5000	ug/l	100	6I26001	09/26/06	09/26/06	EPA 8015B/8021B	
Benzene	**4500**	50	"	"	"	"	"	"	
Toluene	**3900**	50	"	"	"	"	"	"	
Ethylbenzene	**400**	50	"	"	"	"	"	"	
Xylenes (total)	**1400**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*		*85-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99 %*		*75-125*	"	"	"	"	

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4097041918-3 (MPI0490-04) Water	**Sampled: 09/13/06 09:35**		**Received: 09/15/06 10:15**						
Gasoline Range Organics (C4-C12)	**5800**	2500	ug/l	50	6I26001	09/26/06	09/26/06	EPA 8015B/8021B	
Benzene	**1600**	25	"	"	"	"	"	"	
Toluene	**210**	25	"	"	"	"	"	"	
Ethylbenzene	**180**	25	"	"	"	"	"	"	
Xylenes (total)	**270**	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	120	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*85-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98 %*	*75-125*		"	"	"	"	

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4097041918-1 (MPI0490-03) Water	**Sampled: 09/13/06 09:05 Received: 09/15/06 10:15**								
1,2-Dichloroethane	**260**	50	ug/l	100	6I26014	09/26/06	09/27/06	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*60-145*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79 %*		*60-120*	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-130*	"	"	"	"	
Surrogate: Toluene-d8		*73 %*		*70-130*	"	"	"	"	
4097041918-3 (MPI0490-04) Water	**Sampled: 09/13/06 09:35 Received: 09/15/06 10:15**								
1,2-Dichloroethane	**55**	2.5	ug/l	5	6I26014	09/26/06	09/27/06	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*136 %*		*60-145*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86 %*		*60-120*	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*		*75-130*	"	"	"	"	
Surrogate: Toluene-d8		*92 %*		*70-130*	"	"	"	"	

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I26001 - EPA 5030B [P/T] / EPA 8015B/8021B										
Blank (6I26001-BLK1)				Prepared & Analyzed: 09/26/06						
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	*86.9*		"	*80.0*		*109*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*80.1*		"	*80.0*		*100*	*75-125*			
Laboratory Control Sample (6I26001-BS1)				Prepared & Analyzed: 09/26/06						
Gasoline Range Organics (C4-C12)	208	50	ug/l	275		76	60-115			
Benzene	4.65	0.50	"	4.85		96	45-150			
Toluene	23.1	0.50	"	23.5		98	70-115			
Ethylbenzene	4.54	0.50	"	4.70		97	65-115			
Xylenes (total)	26.3	0.50	"	26.5		99	70-115			
Methyl tert-butyl ether	5.16	2.5	"	6.50		79	45-150			
Surrogate: a,a,a-Trifluorotoluene	*85.3*		"	*80.0*		*107*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*81.0*		"	*80.0*		*101*	*75-125*			
Matrix Spike (6I26001-MS1)	**Source: MPI0457-01**			Prepared & Analyzed: 09/26/06						
Gasoline Range Organics (C4-C12)	200	50	ug/l	275	ND	73	60-115			
Benzene	4.06	0.50	"	4.85	ND	84	45-150			
Toluene	19.6	0.50	"	23.5	ND	83	70-115			
Ethylbenzene	3.77	0.50	"	4.70	ND	80	65-115			
Xylenes (total)	21.8	0.50	"	26.5	ND	82	70-115			
Methyl tert-butyl ether	4.63	2.5	"	6.50	ND	71	45-150			
Surrogate: a,a,a-Trifluorotoluene	*74.9*		"	*80.0*		*94*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*80.9*		"	*80.0*		*101*	*75-125*			

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

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

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I26001 - EPA 5030B [P/T] / EPA 8015B/8021B										
Matrix Spike Dup (6I26001-MSD1)	**Source: MPI0457-01**			Prepared & Analyzed: 09/26/06						
Gasoline Range Organics (C4-C12)	187	50	ug/l	275	ND	68	60-115	7	20	
Benzene	3.92	0.50	"	4.85	ND	81	45-150	4	25	
Toluene	18.9	0.50	"	23.5	ND	80	70-115	4	20	
Ethylbenzene	3.62	0.50	"	4.70	ND	77	65-115	4	25	
Xylenes (total)	20.9	0.50	"	26.5	ND	79	70-115	4	25	
Methyl tert-butyl ether	4.58	2.5	"	6.50	ND	70	45-150	1	30	
Surrogate: a,a,a-Trifluorotoluene	*78.0*		"	*80.0*		*98*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*80.8*		"	*80.0*		*101*	*75-125*			

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I26014 - EPA 5030B P/T / EPA 8260B										
Blank (6I26014-BLK1)				Prepared & Analyzed: 09/26/06						
1,2-Dichloroethane	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.79*		"	*2.50*		*112*	*60-145*			
Surrogate: 4-Bromofluorobenzene	*1.81*		"	*2.50*		*72*	*60-120*			
Surrogate: Dibromofluoromethane	*2.81*		"	*2.50*		*112*	*75-130*			
Surrogate: Toluene-d8	*1.99*		"	*2.50*		*80*	*70-130*			
Laboratory Control Sample (6I26014-BS1)				Prepared & Analyzed: 09/26/06						
1,2-Dichloroethane	10.0	0.50	ug/l	10.0		100	75-125			
Surrogate: 1,2-Dichloroethane-d4	*2.45*		"	*2.50*		*98*	*60-145*			
Surrogate: 4-Bromofluorobenzene	*2.42*		"	*2.50*		*97*	*60-120*			
Surrogate: Dibromofluoromethane	*2.49*		"	*2.50*		*100*	*75-130*			
Surrogate: Toluene-d8	*2.53*		"	*2.50*		*101*	*70-130*			
Matrix Spike (6I26014-MS1)	**Source: MPI0478-01**			Prepared & Analyzed: 09/26/06						
1,2-Dichloroethane	49.8	2.5	ug/l	50.0	ND	100	75-125			
Surrogate: 1,2-Dichloroethane-d4	*2.49*		"	*2.50*		*100*	*60-145*			
Surrogate: 4-Bromofluorobenzene	*2.34*		"	*2.50*		*94*	*60-120*			
Surrogate: Dibromofluoromethane	*2.46*		"	*2.50*		*98*	*75-130*			
Surrogate: Toluene-d8	*2.58*		"	*2.50*		*103*	*70-130*			
Matrix Spike Dup (6I26014-MSD1)	**Source: MPI0478-01**			Prepared & Analyzed: 09/26/06						
1,2-Dichloroethane	48.3	2.5	ug/l	50.0	ND	97	75-125	3	10	
Surrogate: 1,2-Dichloroethane-d4	*2.43*		"	*2.50*		*97*	*60-145*			
Surrogate: 4-Bromofluorobenzene	*2.42*		"	*2.50*		*97*	*60-120*			
Surrogate: Dibromofluoromethane	*2.49*		"	*2.50*		*100*	*75-130*			
Surrogate: Toluene-d8	*2.54*		"	*2.50*		*102*	*70-130*			

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5341 Old Redwood Highway, Suite 300	Project Number: 4097041918.01	**Reported:**
Petaluma CA, 94954	Project Manager: David Nanstad	10/10/06 16:18

Notes and Definitions

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

MACTEC

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

CHAIN OF CUSTODY FORM

Seq. No.: № 2078

Samplers: C Simpson

Lab: Sequoia Analytical

Job Number: 409704.1918.01

Name/Location: BPS Oakland, Ca

MPI 0490

Project Manager: D. Nanstad

Recorder: CHS (Signature Required)

MATRIX			# CONTAINERS & PRESERV.					SAMPLE NUMBER	DATE				STATION DESCRIPTION	
Water	Soil	Air	Unpres.	H2SO4	HNO3	HCL		YR SEQ	YR	MO	DAY	TIME		DEPTH
X						3	-	4097041918-4	06	09	13	0818	01	
X						3	-	4097041918-2	06	09	13	0845	02	
X						6	-	4097041918-1	06	09	13	0905	03	
X						6	-	4097041918-3	06	09	13	0935	04	
X						3	-	4097041918-5	06	09	13	0945	05	

CHS 9/13/06

ANALYSIS REQUESTED

8015 TPH G	8020 MTBE/BTEX	Ethylene Dichloride
X	X	
X	X	
X	X	X
X	X	X
X	X	

CHS 9/13/06

ADDITIONAL INFORMATION

SAMPLE NUMBER YR SEQ	TURNAROUND TIME/ REMARKS
	Detections of MTBE are to be confirmed by EPA 8260
	Standard TAT
9704191 8-5	Hold Sample
	APO # 62277
	Please include APO on Invoices

CHAIN OF CUSTODY RECORD

CHS	Chad Simpson	Macdel.	9/14/06 0900
Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
[signature]	JULIE NG (MACTEC)		9.15.06 1015
Received By (Signature)	(Print Name)	(Company)	Date/Time
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 (White) Project Office Copy (Yellow) Field or Office Copy (Pink)

C.S

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: MACTEC
REC. BY (PRINT): JULIE NG.
WORKORDER: MPL 0490

DATE REC'D AT LAB: 9.15.06
TIME REC'D AT LAB: 1015
DATE LOGGED IN: 9/16/06

For Regulatory Purposes?
DRINKING WATER YES (NO)
WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*								
2. Chain-of-Custody	Present / Absent*								
3. Traffic Reports or Packing List:	Present / Absent								
4. Airbill:	Airbill / Sticker Present / Absent								
5. Airbill #:	See attached								* TripBlank 409704191B-5 : 3 VOA
6. Sample Labels:	Present / Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*								
10. Sample received within hold time?	Yes / No*								
11. Adequate sample volume received?	Yes / No*								
12. Proper preservatives used?	Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*								
14. Read Temp: 4.8°C Corrected Temp: ↓ Is corrected temp 4 +/-2°C?	Yes / No**								

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / DFF ON ICE or Problem COC

JULIE NG. 9/15/06 SEE COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

APPENDIX B

GROUNDWATER SAMPLING FORM

MACTEC

GROUNDWATER SAMPLING FORM

Well Number: MW-5

Well Type: [X] Monitor [ ] Extraction [ ] Other ___ [ ] PVC [ ] St. Steel [ ] Other ___

Job Name: BPS

Job Number: 4097041918.01

Date: 9/13/2006

Recorded By: CS (Signature)

Sampled By: CS (initials)

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): 21.35
No. of Well Volumes to be purged : 3

Screen Inteval = 19-39

PURGE VOLUME CALCULATION

(_____ - _____) X ___ ² X 3 X 0.0408 = _____ gals

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

PURGE METHOD

[X] Bailer - Type: Sampling Disposable Bailer
[ ] Submersible - Type:
[X] Other - Type: ~~Micro Purge~~ CS

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

Minutes	pH	Conductivity (µS)	Temp. [X] °C [ ] °F	Turbidity (NTU)
Initial	6.56	873	16.7	12.2
Meter S/N				

PURGE TIME

Purge Start: 0920
Purge Stop: 0930
Elapsed: 10

PURGE RATE

GPM: ~.4
GPM:

PURGE VOLUME

Volume: 1 Lt. gallons

D.O. 1.54 Redox -222

Observations During Purging (Well Condition, Color, Odor):
Sampling Peristaltic Pump Broke had to use disposable bailer

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

WELL SAMPLING

[X] Bailer - Type: ~~peri pump~~ CS Sampling Bailer Sample Time: 0935

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
4097041918-3	6 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			
		Ethylene Dichloride			

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.
Trip	4097041918-5

MACTEC

GROUNDWATER SAMPLING FORM

Well Number: MW-6

Well Type: [X] Monitor [ ] Extraction [ ] Other
[ ] PVC [ ] St. Steel [ ] Other

Job Name: BPS

Job Number: 4097041918.01

Date: 9/13/2006

Recorded By: CLJ (Signature)

Sampled By: CS (initials)

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): 22.31
No. of Well Volumes to be purged: 3

No Construcion logs

PURGE VOLUME CALCULATION

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

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

PURGE METHOD

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

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

Minutes	pH	Conductivity (µS)	Temp. [X] °C [ ] °F	Turbidity (NTU)
Initial	8.34	656	20.3	21.8
Meter S/N				

PURGE TIME

Purge Start: 0750
Purge Stop: 0800
Elapsed: 10 min

PURGE RATE

GPM: N/A
GPM:

PURGE VOLUME

Volume: 1.4 gallons

D.O. 1.07 Redox 36

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

8.20 °C.

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

WELL SAMPLING

[ ] Bailer - Type: peri pump

Sample Time: 0810

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
4097041918-4	3 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			

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-1

Well Type: [X] Monitor [ ] Extraction [ ] Other ___
[ ] PVC [ ] St. Steel [ ] Other ___

Job Name: BPS

Job Number: 4097041918.01

Date: 9/13/2006

Recorded By: CL (Signature)

Sampled By: CS (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): 23.0
No. of Well Volumes to be purged : 3

Screen Interval = 22-32 ft.

PURGE VOLUME CALCULATION

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

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

PURGE METHOD

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

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

Minutes	pH	Conductivity (µS)	[x] °C [ ] °F Temp.	Turbidity (NTU)
Initial	6.90	1088	19.2	11.9
Meter S/N				

PURGE TIME

Purge Start: 0853
Purge Stop: 0902
Elapsed: 10

PURGE RATE

GPM: N/A
GPM: ___

PURGE VOLUME

Volume: 1.7 gallons

D.O. .61 Redox -270

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

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

WELL SAMPLING

[ ] Bailer - Type: peri pump

Sample Time: 0905

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
4097041918-1	6 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			
		Ethylene Dichloride			

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-3

Well Type: [X] Monitor [ ] Extraction [ ] Other ___ [ ] PVC [ ] St. Steel [ ] Other ___

Job Name: BPS

Job Number: 4097041918.01

Date: 9/13/2006

Recorded By: CW (Signature)

Sampled By: CS (initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches): 4

Total Depth of Casing (TD in ft BTOC): 31

Water Level Depth (WL in ft BTOC): 22.35

No. of Well Volumes to be purged : 3

Screen Interval = 22-32 ft.

PURGE VOLUME CALCULATION

( ) X ² X .3 X 0.0408 = _____ gals

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

PURGE METHOD

[ ] Bailer - Type:

[ ] Submersible - Type:

[X] Other - Type: Micro Purge

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

Minutes	pH	Conductivity (µS)	Temp. [x] °C [ ] °F	Turbidity (NTU)
Initial	7.41	591	19.2	19.0
Meter S/N				

PURGE TIME

Purge Start: 0820

Purge Stop: 0830

Elapsed: 10

PURGE RATE

GPM: ~.4

GPM: —

PURGE VOLUME

Volume: 1Lt gallons

D.O. .98 Redox -257

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

Strong odor

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

WELL SAMPLING

[ ] Bailer - Type: peri. pump

Sample Time: 0845

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
4097041918-2	3 VOA's	T.P.H gas (8015 Modified)	HCL	Sequoia	
		BTEX (8020)			
		MTBE (8020)			

QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
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	9/13/06	0850	23.00	23.00	Y	N	ok	Y	4"	
MW-3	9/13/06	0815	22.35	22.35	Y	N	ok	Y	4"	
MW-5	9/13/06	0915	21.35	21.35	Y	N	ok	Y	2"	
MW-6	9/13/06	0737	22.31	22.31	N	N	ok	Y	2"	
MW-1A	9/13/06	0852	21.45	21.45	Y	N	ok	Y	4"	
MW-4										unable to locate

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

pH: YSI 63 SN 00M0486

Temperature:

Specific Conductance:

Dissolved Oxygen: YSI 55 SN 01D0873AD

Turbidity: 2100P Turbidimeter SN 9110800263

Redox Orion Research model SA230 equipco 4A
Sounder unit # 01 M200 BAYA 02