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1:33 pm, Jun 18, 2012

Alameda County
Environmental Health

Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

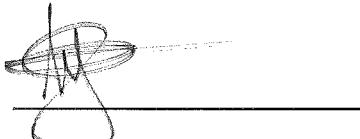
Re: BPS Reprographics (Formerly City Blue Print)
RWQCB Case #01-0210
1700 Jefferson St
Oakland CA, 94612

Dear Barbara Jakub,

BPS had directed MACTEC to provide, on our behalf, professional environmental consulting services to the best of their ability. To the best of my knowledge the information in this report is accurate and all local Agency and/or Regional Water Quality Control Board regulations and guidelines have been followed.

This report was prepared by MACTEC and BPS has relied on their advice and assistance. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,



Authorized Representative

Attachment: Report

TRANSMITTAL

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

From: David S. Nanstad *D.S.N.*
MACTEC E&C

Date: October 4, 2007

Subject: Second Quarter 2007 Groundwater Remediation and Monitoring Report
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Project Number: 4097041918 Task 05

Enclosed please find 4 sets (1 original and 3 copies) of the *Groundwater Remediation and Monitoring Report for the Second Quarter 2007* for the subject Site.

Please be advised that this report is due to the Alameda County Environmental Health Services (ACEHS) as recommended in the report.

Evaluation of current and historical groundwater monitoring information suggests that contaminant concentrations are not decreasing at a rate that would support a request for monitoring frequency reduction to Alameda County Health Care Services (the local oversight agency). MACTEC recommends performing a cost benefit analysis of appropriate remedial technologies that could be used to hasten site cleanup, minimize ongoing monitoring, and potentially result in long-term cost savings. Please contact David Nanstad if you are interested in having MACTEC perform this analysis for BPS.

If you have any questions please feel free to call me at (415) 278-2118.

Enclosed: Second Quarter 2007 Groundwater Remediation and Monitoring Report
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Cc: Susan Pantaja – MACTEC E&C, Transmittal Only



Engineering and Environmental Services
28 Second Street, Suite 700
San Francisco, CA 94103



engineering and constructing a better tomorrow

October 2, 2007

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

Subject: **Groundwater Remediation and Monitoring Report
Second Quarter 2007
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California
MACTEC Project No. 4097041918 05**

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). The Second Quarter 2007 groundwater monitoring event was performed on July 2, 2007. Information presented in this letter-report represent the Second Quarter 2007 (April through July 2) groundwater conditions at the subject site, 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.

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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” and 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, and 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.

SECOND QUARTER 2007 GROUNDWATER SAMPLING AND ANALYSIS

On July 02, 2007, 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 Second Quarter 2007 event, the DO concentrations ranged from 1.5 mg/L in MW-3 to 2.0 mg/L in MW-1. 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 increased an average of 0.04 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 July 02, 2007 groundwater measurements from MW-1, MW-3, MW-5, and MW-6. Based on the groundwater elevations, the groundwater gradient is approximately 0.003 ft/ft. The direction of flow appears to be in the westerly 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 Test America Analytical Testing Corporation (Test America), a California state-certified laboratory (CA ELAP Certificate #1214), under chain-of-custody protocol for the following analyses:

- Total petroleum hydrocarbons as gasoline (TPHg) in accordance with EPA Method 8015 modified.

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- 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.

The Second Quarter 2007 analytical results for TPHg, BTEX, MTBE, and EDC are displayed on Plate 4. Historical analytical results for TPHg, BTEX, and MTBE collected through September 29, 1999 are shown in Table 3. 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, the Second Quarter 2007 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 Second Quarter 2007 event are as follows:

- TPHg ranged from non-detectable with a detection limit of 0.05 milligrams per liter (mg/L; MW-6) to 33 mg/l (MW-5).
- Benzene ranged from non-detectable with a detection limit of 0.5 micrograms per liter ($\mu\text{g}/\text{L}$; MW-6) to 9,400 $\mu\text{g}/\text{L}$ (MW-5).
- Toluene ranged from non-detectable with a detection limit of 0.5 $\mu\text{g}/\text{L}$ (MW-6) to 2,000 $\mu\text{g}/\text{L}$ (MW-1).
- Ethylbenzene ranged from non-detectable with a detection limit of 0.5 $\mu\text{g}/\text{L}$ (MW-6) to 1,000 $\mu\text{g}/\text{L}$ (MW-5).
- Total Xylenes ranged from non-detectable with a detection limit of 0.5 $\mu\text{g}/\text{L}$ (MW-6) to 1,500 $\mu\text{g}/\text{L}$ (MW-5).
- MTBE was not detected in samples from any of the groundwater monitoring wells this quarter, with detection limits ranging from 2.5 $\mu\text{g}/\text{L}$ (MW-6) to 500 $\mu\text{g}/\text{L}$ (MW-1 and MW-5).
- EDC was detected in MW-1 at a concentration of 220 $\mu\text{g}/\text{L}$ and in MW-5 at a concentration of 410 $\mu\text{g}/\text{L}$.

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

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In MW-1, chemical concentrations 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 (Plate 5a). Since then, concentrations have remained relatively stable. The Second Quarter 2007 concentrations of TPHg and BTEX in MW-1 have all decreased since the First Quarter 2007.

In MW-3, chemical concentrations peaked in 2003; decreased significantly in mid-2005, and subsequently increased (Plate 5b). Relative to the First Quarter 2007 results, the Second Quarter 2007 TPHg and BTEX concentrations are very similar or the same (benzene).

Chemical concentrations in MW-5 decreased to historical lows during the First and Second Quarter 2006 (Plate 5c). Subsequently, TPHg and BTEX concentrations have increased, but remain within their respective recent historical ranges. Relative to the First Quarter 2007 results, the Second Quarter 2007 TPHg and BTEX concentrations are very similar or the same (toluene).

Typically, groundwater collected from MW-6 contains no detectable concentrations of TPHg or BTEX compounds. The Second Quarter 2007 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 with the Fourth Quarter 2002 event, 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 (220 ug/L and 410 ug/L, respectively) 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.

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

Yours very truly,

MACTEC ENGINEERING AND CONSULTING, INC.



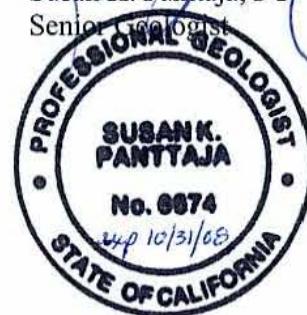
David S. Nanstad, REA
Project Engineer


Richard Manser
Principal Scientist

DSN/mlb:MB62061.doc-BPS



Susan K. Pantaja, PG
Senior Geologist



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

TABLES

Table 1. Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson St.
Oakland CA

9/18/2007
 Final
 MB62371_Tables2Q07.xls

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
12/27/2006	7.9	7.0	0.4	0.6
3/30/2007	1.3	1.3	1.9	1.9
7/2/2007	2.0	1.5	1.6	1.7

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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
12/27/2006	-329	-265	-305	36
3/30/2007	-324	-340	243	-61
7/2/2007	-316.8	-291.8	169.2	-92.7
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

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9/18/2007
 Final
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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
12/26/2006	59.7	60.4	61.2	57.9
3/30/2007	64.0	65.8	66.0	64.4
7/2/2007	65.1	66.6	66.6	66.0
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
12/27/2006	6.3	5.2	6.0	6.0
3/30/2007	6.5	5.5	6.4	6.3
7/2/2007	6.3	6.1	6.7	6.5

Table 1. Groundwater Parameters
BPS Reprographic Services Facility
1700 Jefferson St.
Oakland CA

Specific Conductance ($\mu\text{S}/\text{cm}$)	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
12/27/2006	996	145	775	847
3/30/2007	1063	303	919	918
7/2/2007	887	337.8	949	776

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

$\mu\text{S}/\text{cm}$ = 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

Checked SKP

Accepted KJ

Table 2. Groundwater Elevation Data
BPS Reprographic Services Facility
1700 Jefferson St
Oakland CA

9/18/2007
 Final
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Date Sampled	MW-1		MW-3		MW-5		MW-6		Average Change Since Preceding Quarter
	TOC Elev.	32.36	TOC Elev.	31.77	TOC Elev.	30.56	TOC Elev.	31.26	
3/6/1996	NM	--	24.79	6.98	23.53	7.03	NA	--	-0.53
6/11/1996	FP	--	25.60	6.17	23.78	6.78	25.16	6.10	-0.60
9/19/1996	FP	--	26.09	5.68	24.48	6.08	25.76	5.50	-0.23
12/23/1996	FP	--	FP	--	24.83	5.73	25.88	5.38	1.06
3/27/1997	FP	--	FP	--	23.82	6.74	24.78	6.48	0.04
6/4/1997	26.41	5.95	25.11	6.66	23.92	6.64	24.60	6.66	-0.32
9/26/1997	26.80	5.56	25.41	6.36	24.29	6.27	24.80	6.46	0.42
12/22/1997	26.00	6.36	24.91	6.86	24.02	6.54	24.71	6.55	0.75
3/31/1998	26.06	6.30	24.05	7.72	22.78	7.78	23.75	7.51	0.23
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
3/24/2006	23.05	9.31	22.57	9.20	21.01	9.55	22.50	8.76	0.72
6/29/2006	22.56	9.80	21.93	9.84	20.78	9.78	21.85	9.41	0.50
9/13/2006	23.00	9.36	22.35	9.42	21.35	9.21	22.31	8.95	-0.47
12/27/2006	23.47	8.89	22.82	8.95	21.82	8.74	22.85	8.41	-0.49
3/30/2007	23.51	8.85	22.91	8.86	21.70	8.86	22.88	8.38	-0.01
7/2/2007	23.39	8.97	22.88	8.89	21.81	8.75	22.75	8.51	0.04

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.

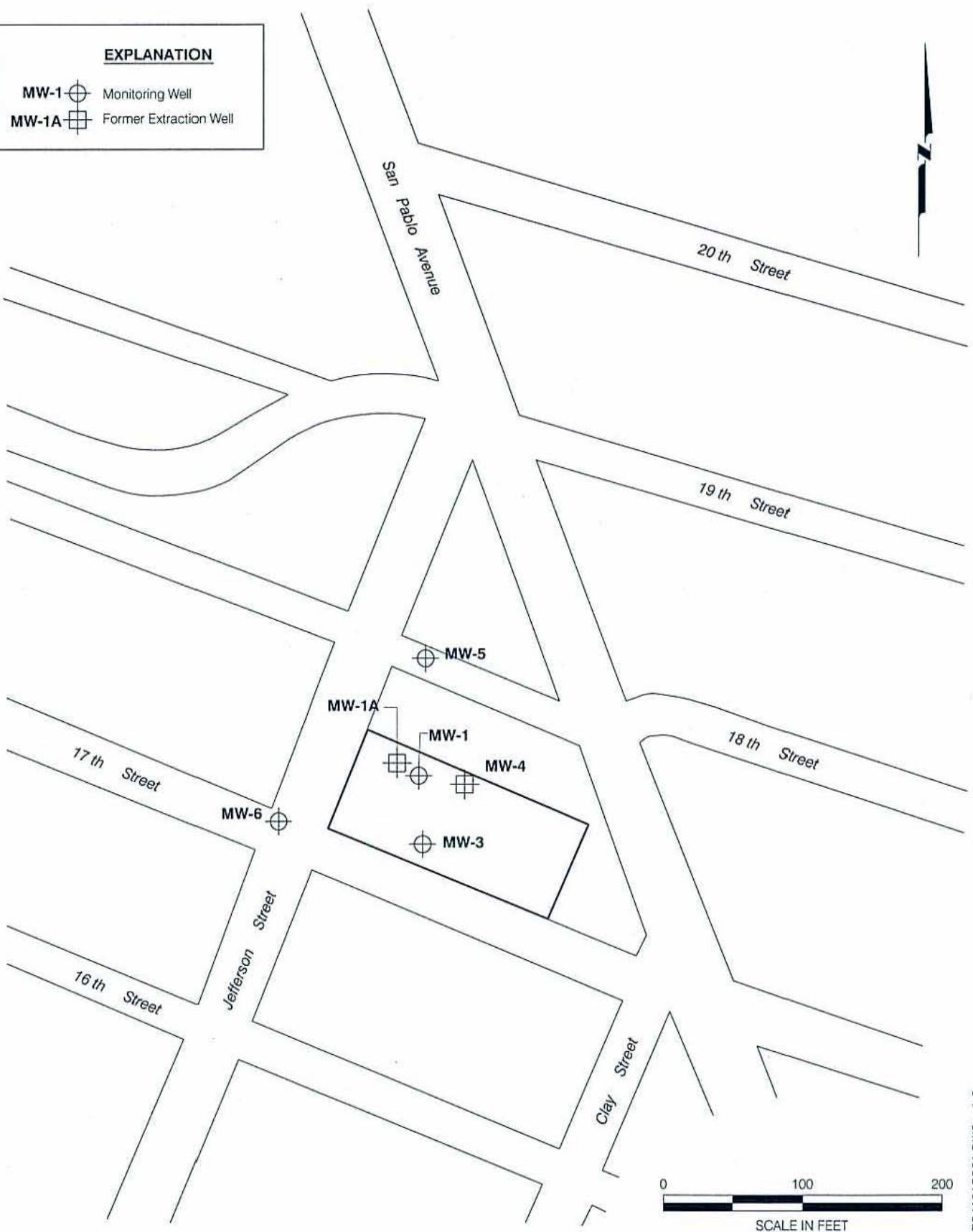
Checked SVP

Approved BS

PLATES

EXPLANATION

- MW-1 Monitoring Well
 MW-1A Former Extraction Well



4097041918001.DWG 1.0
 20070530.1424



Site Map
Groundwater Remediation and Monitoring Report
Second Quarter 2007
BPS Reprographic Services Facility
Oakland, California

PLATE

1

DRAWN
 RF

JOB NUMBER
 4097041918 01

CHECKED

SHR

CHECKED DATE

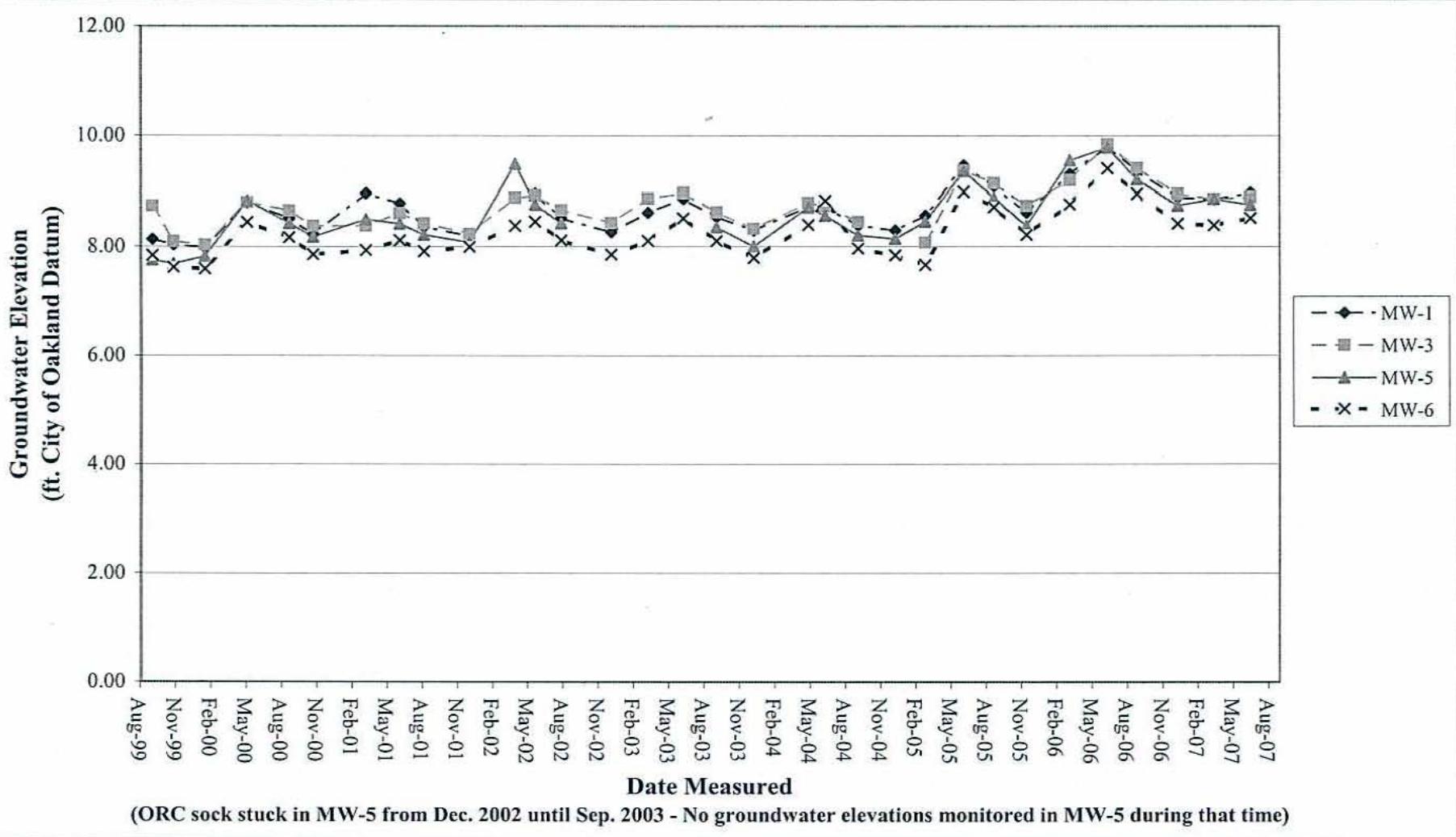
07/07

APPROVED

RJL

APPROVED DATE

9-26-07



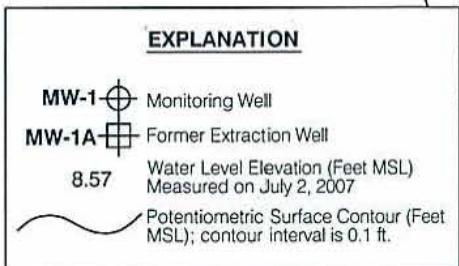
MACTEC

Groundwater Elevation Data
Second Quarter 2007
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

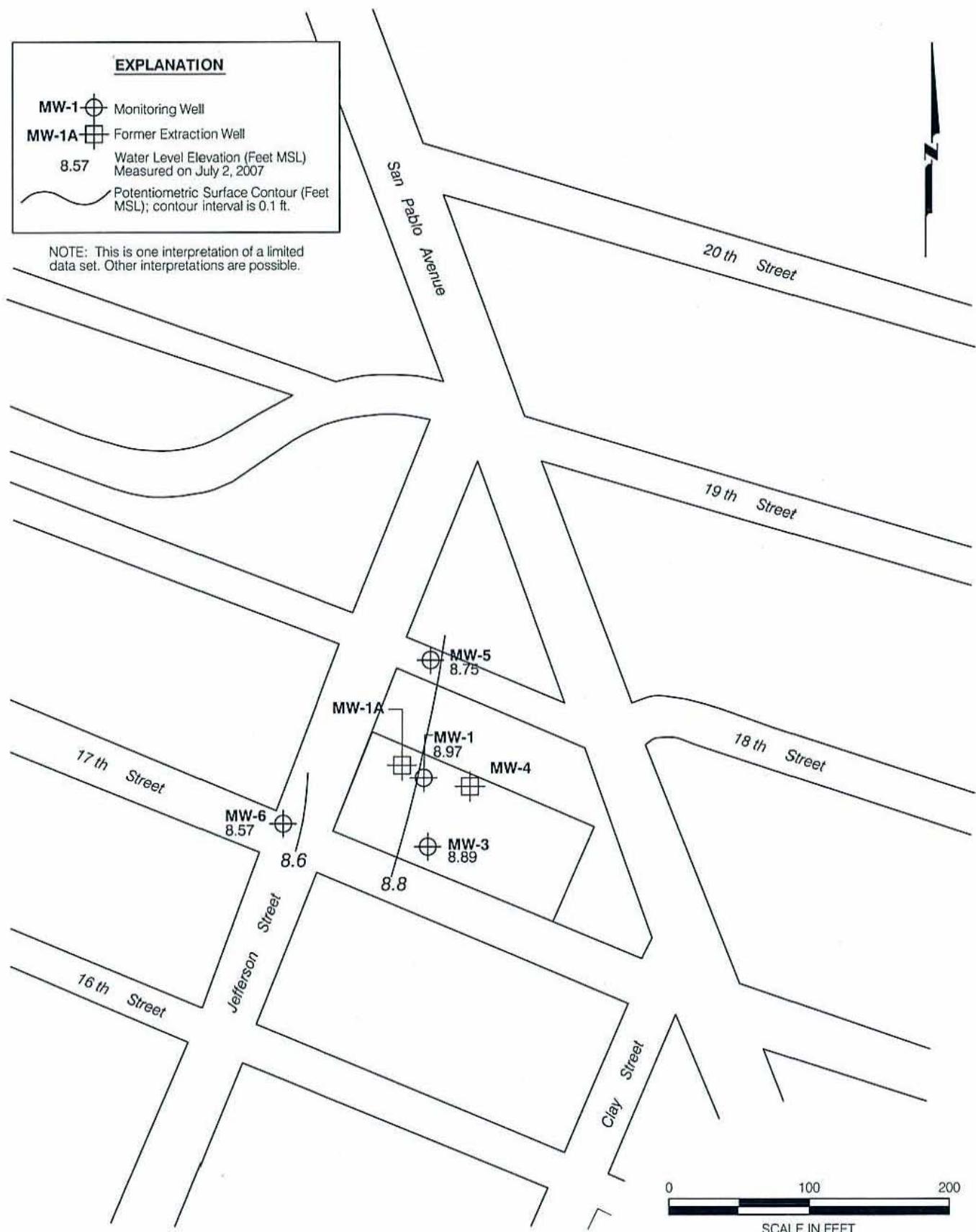
Plate

2

DRAWN DSN	JOB NUMBER 4097041918	APPROVED <i>BSP SLP</i>	DATE September-07	REVISION DATE
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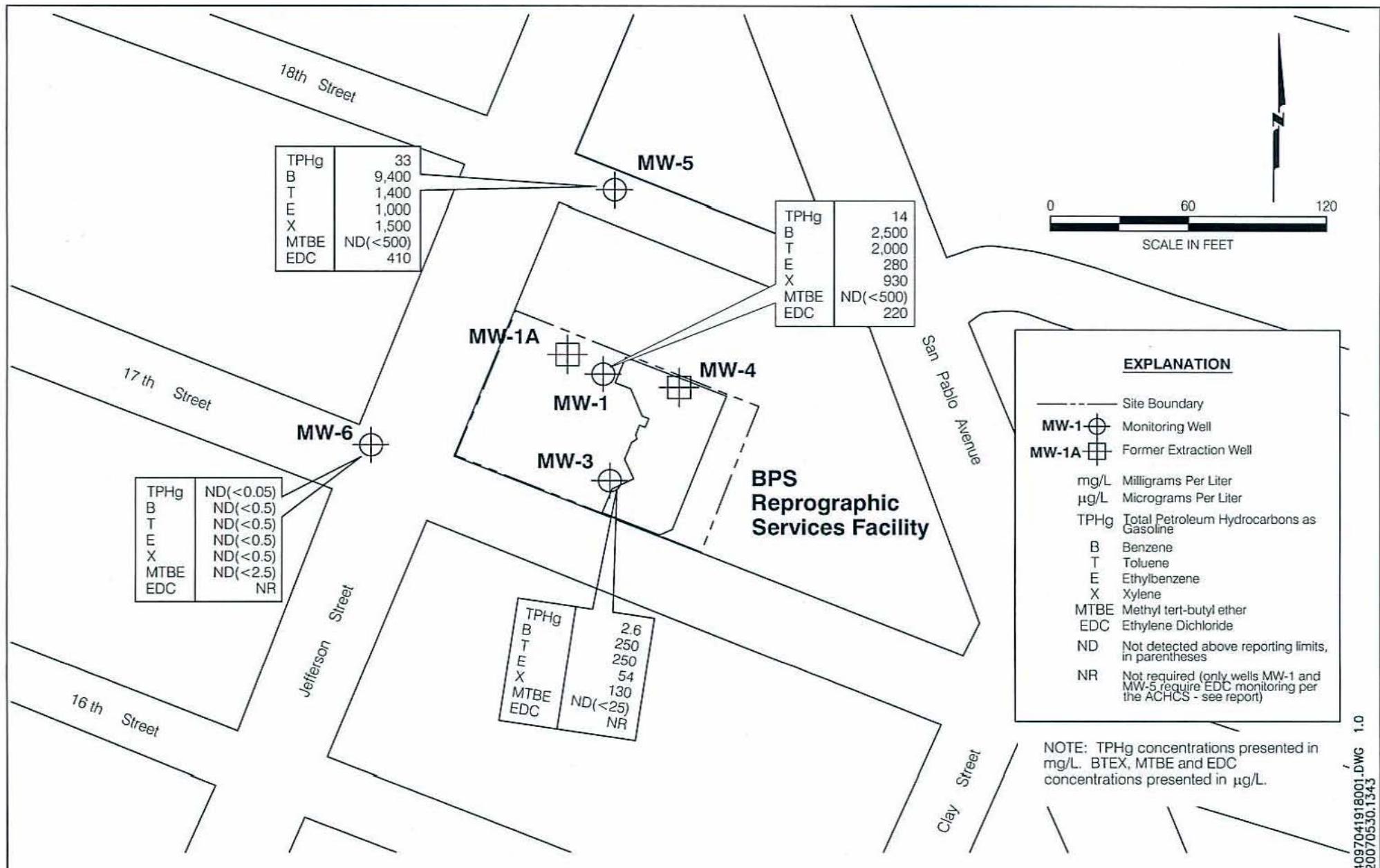


NOTE: This is one interpretation of a limited data set. Other interpretations are possible.



4097041918001.DWG 1.0
20070530.1343

MACTEC	Groundwater Contours Groundwater Remediation and Monitoring Report Second Quarter 2007 BPS Reprographic Services Facility Oakland, California	PLATE 3
DRAWN RF	JOB NUMBER 4097041918 01	CHECKED <i>SKP</i> CHECKED DATE 07/07



MACTEC

DRAWN
RF

JOB NUMBER
4097041918 01

CHECKED
SM

CHECKED DATE
07/07

APPROVED
BN

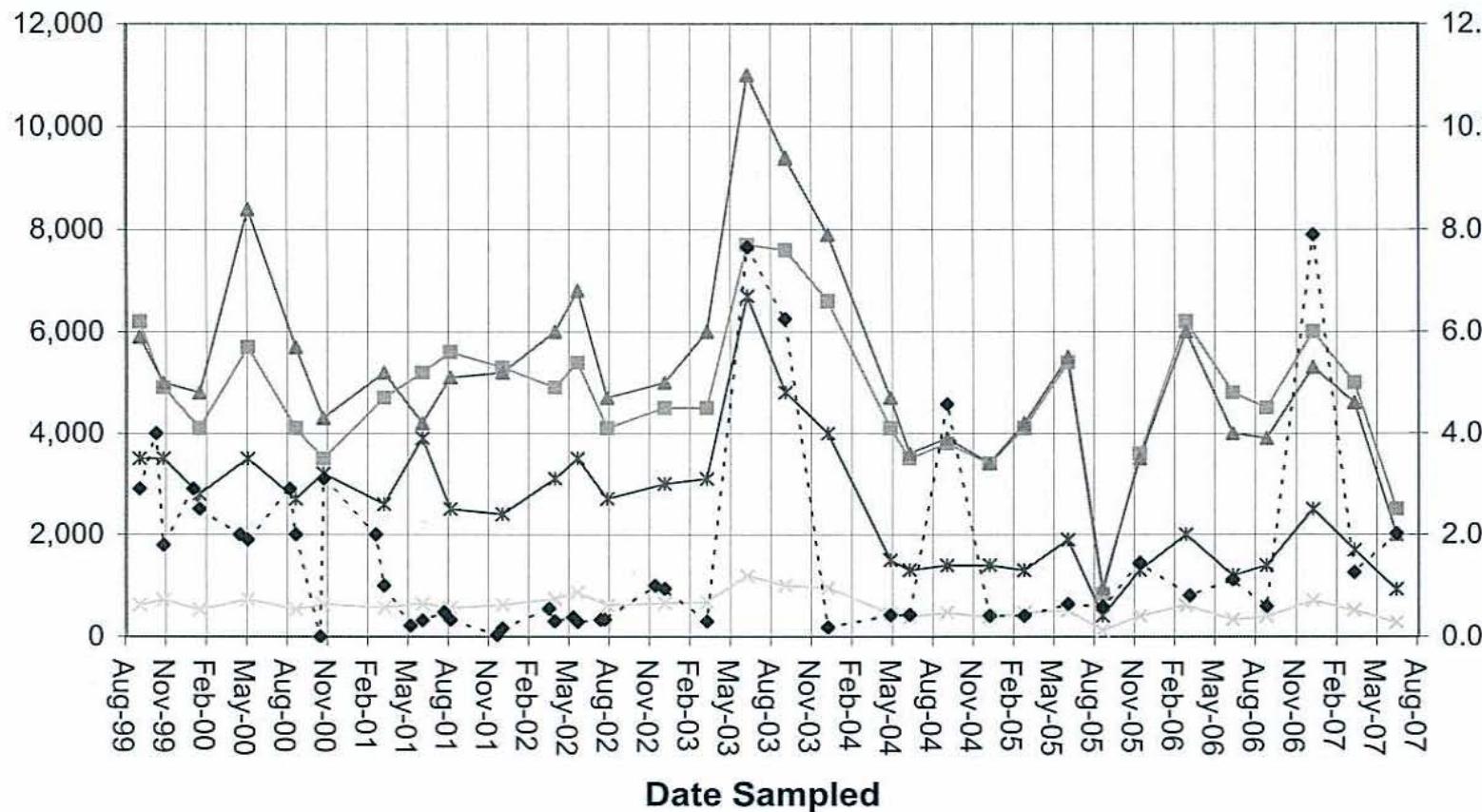
APPROVED DATE
7-6-07

PLATE

4

MW-1

BTEX Concentrations (µg/L)



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

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

—■— Benzene —▲— Toluene —*— Ethylbenzene —*— Xylenes -·◆- Dissolved Oxygen



MACTEC

MW-1 BTEX and DO Results

Second Quarter 2007
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Plate

5a

DRAWN
DSN

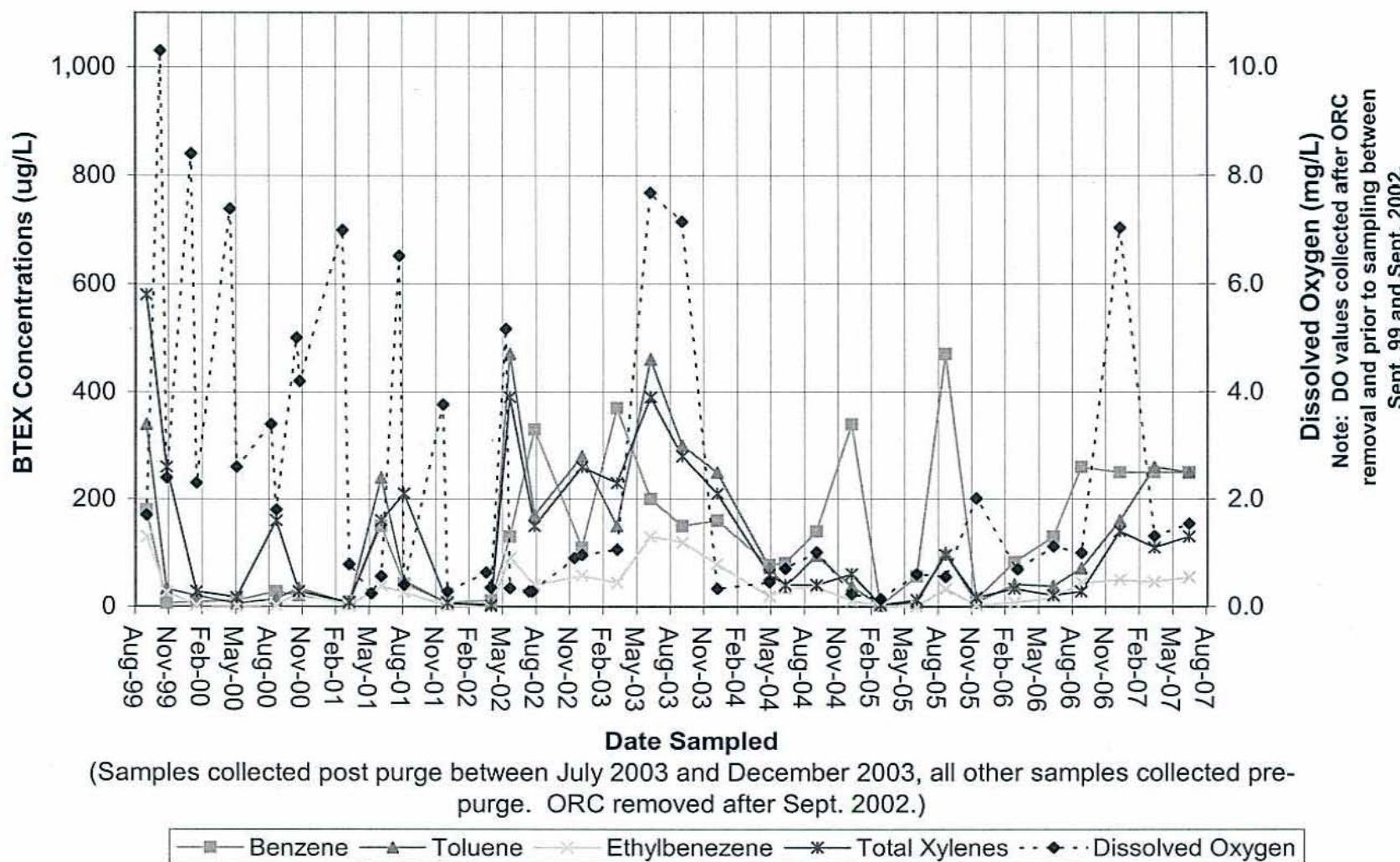
JOB NUMBER
4097041918

APPROVED
Don SLP

DATE
September-07

REVISION DATE

MW-3



MACTEC

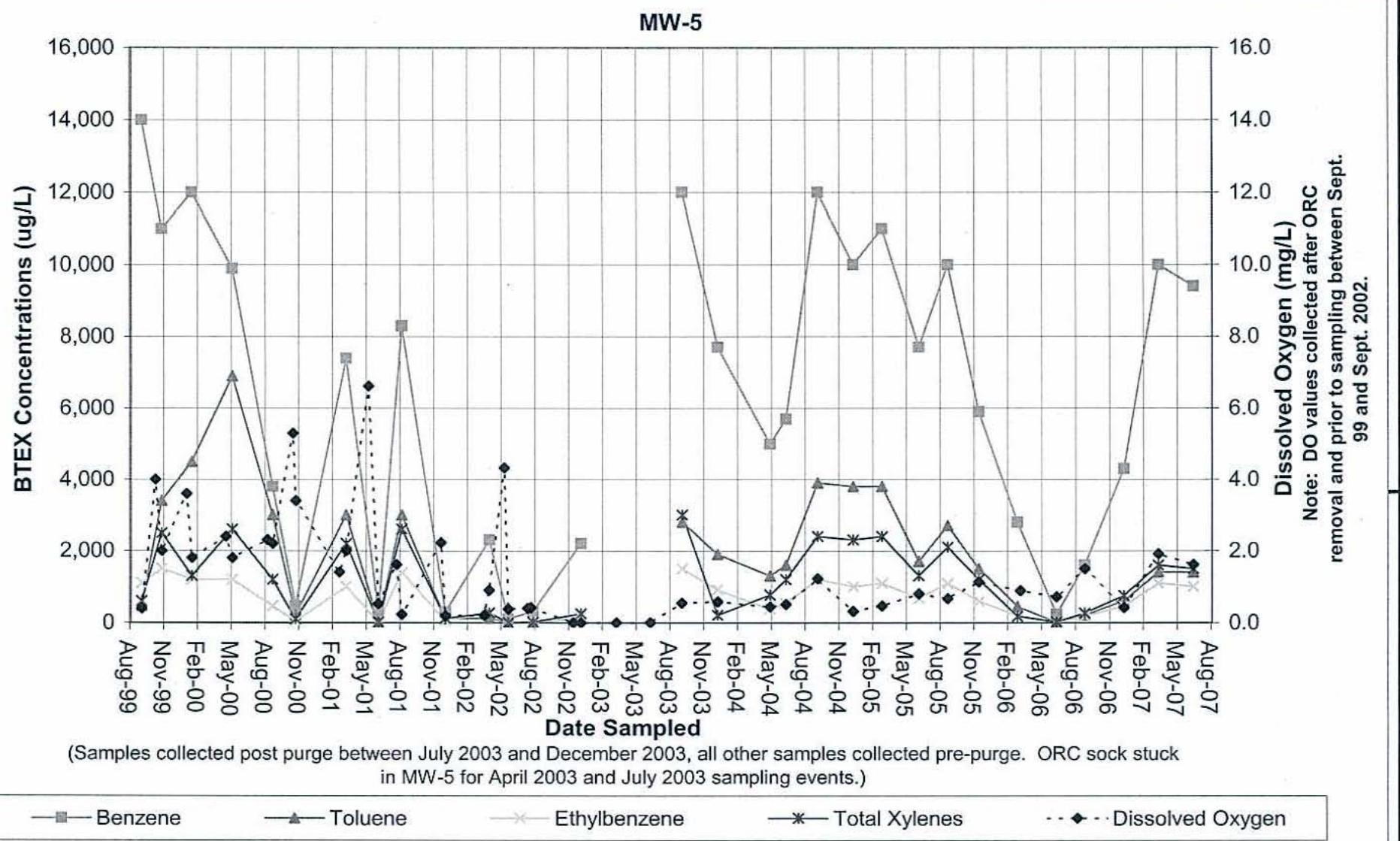
MW-3 BTEX and DO Results

Second Quarter 2007
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Plate

5b

DRAWN DSN	JOB NUMBER 4097041918	APPROVED <i>[Signature]</i>	DATE September-07	REVISION DATE
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MACTEC

MW-5 BTEX and DO Results
Second Quarter 2007
BPS Reprographic Services Facility
1700 Jefferson Street
Oakland, California

Plate **5c**

DRAWN DSN	JOB NUMBER 4097041918	APPROVED <i>BS SKP</i>	DATE September-07	REVISION DATE
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APPENDIX A

LABORATORY REPORTS

18 July, 2007

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

RE: BPS City Blue
Work Order: MQG0140

Enclosed are the results of analyses for samples received by the laboratory on 07/02/07 19:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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

MQG0140
Reported:
07/18/07 10:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
409704-4	MQG0140-01	Water	07/02/07 09:30	07/02/07 19:20
409704-2	MQG0140-02	Water	07/02/07 09:50	07/02/07 19:20
409704-1	MQG0140-03	Water	07/02/07 10:15	07/02/07 19:20
409704-3	MQG0140-04	Water	07/02/07 10:30	07/02/07 19:20
409704-5	MQG0140-05	Water	07/02/07 10:40	07/02/07 19:20

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

MQG0140
Reported:
07/18/07 10:58

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
409704-4 (MQG0140-01) Water Sampled: 07/02/07 09:30 Received: 07/02/07 19:20									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G11005	07/11/07	07/11/07	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	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		106 %		85-120		"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		75-125		"	"	"	"
409704-2 (MQG0140-02) Water Sampled: 07/02/07 09:50 Received: 07/02/07 19:20									
Gasoline Range Organics (C4-C12)	2600	500	ug/l	10	7G11005	07/11/07	07/11/07	EPA 8015B/8021B	
Benzene	250	5.0	"	"	"	"	"	"	"
Toluene	250	5.0	"	"	"	"	"	"	"
Ethylbenzene	54	5.0	"	"	"	"	"	"	"
Xylenes (total)	130	5.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %		85-120		"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		75-125		"	"	"	"
409704-1 (MQG0140-03) Water Sampled: 07/02/07 10:15 Received: 07/02/07 19:20									
Gasoline Range Organics (C4-C12)	14000	10000	ug/l	200	7G11005	07/11/07	07/11/07	EPA 8015B/8021B	
Benzene	2500	100	"	"	"	"	"	"	"
Toluene	2000	100	"	"	"	"	"	"	"
Ethylbenzene	280	100	"	"	"	"	"	"	"
Xylenes (total)	930	100	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %		85-120		"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		75-125		"	"	"	"

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

MQG0140
Reported:
07/18/07 10:58

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
409704-3 (MQG0140-04) Water Sampled: 07/02/07 10:30 Received: 07/02/07 19:20									
Gasoline Range Organics (C4-C12)	33000	10000	ug/l	200	7G11005	07/11/07	07/11/07	EPA 8015B/8021B	
Benzene	9400	100	"	"	"	"	"	"	"
Toluene	1400	100	"	"	"	"	"	"	"
Ethylbenzene	1000	100	"	"	"	"	"	"	"
Xylenes (total)	1500	100	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene	100 %		85-120		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %		75-125		"	"	"	"	"

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

MQG0140
Reported:
07/18/07 10:58

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
409704-1 (MQG0140-03) Water Sampled: 07/02/07 10:15 Received: 07/02/07 19:20									
1,2-Dichloroethane	220	10	ug/l	20	7G11007	07/11/07	07/11/07	EPA 8260B	
Surrogate: Dibromofluoromethane	110 %	75-120		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	111 %	60-125		"	"	"	"	"	
Surrogate: Toluene-d8	101 %	80-120		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	60-135		"	"	"	"	"	
409704-3 (MQG0140-04) Water Sampled: 07/02/07 10:30 Received: 07/02/07 19:20									
1,2-Dichloroethane	410	25	ug/l	50	7G11007	07/11/07	07/11/07	EPA 8260B	
Surrogate: Dibromofluoromethane	106 %	75-120		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	111 %	60-125		"	"	"	"	"	
Surrogate: Toluene-d8	102 %	80-120		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94 %	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

MQG0140
Reported:
07/18/07 10:58

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	RPD Limit	Notes
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Batch 7G11005 - EPA 5030B [P/T] / EPA 8015B/8021B

Blank (7G11005-BLK1)						Prepared & Analyzed: 07/11/07			
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	"						
<i>Surrogate: a,a,a-Trifluorotoluene</i>	42.4		"	40.0		106	85-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	40.3		"	40.0		101	75-125		
Laboratory Control Sample (7G11005-BS1)						Prepared & Analyzed: 07/11/07			
Gasoline Range Organics (C4-C12)	245	50	ug/l	275		89	60-115		
Benzene	4.13	0.50	"	3.30		125	35-145		
Toluene	23.1	0.50	"	24.2		95	70-115		
Ethylbenzene	4.47	0.50	"	5.05		88	65-115		
Xylenes (total)	25.9	0.50	"	29.0		89	70-115		
Methyl tert-butyl ether	5.99	2.5	"	4.60		130	35-130		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	43.1		"	40.0		108	85-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	42.7		"	40.0		107	75-125		
Matrix Spike (7G11005-MS1)						Prepared & Analyzed: 07/11/07			
Gasoline Range Organics (C4-C12)	302	50	ug/l	275	43.6	94	60-115		
Benzene	4.38	0.50	"	3.30	ND	133	35-145		
Toluene	24.4	0.50	"	24.2	ND	101	70-115		
Ethylbenzene	4.70	0.50	"	5.05	ND	93	65-115		
Xylenes (total)	27.4	0.50	"	29.0	ND	95	70-115		
Methyl tert-butyl ether	6.46	2.5	"	4.60	ND	140	35-130		M7
<i>Surrogate: a,a,a-Trifluorotoluene</i>	43.4		"	40.0		109	85-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	43.4		"	40.0		109	75-125		

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

MQG0140
Reported:
07/18/07 10:58

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	RPD Limit	Notes
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Batch 7G11005 - EPA 5030B [P/T] / EPA 8015B/8021B

Matrix Spike Dup (7G11005-MSD1)	Source: MQG0078-01		Prepared & Analyzed: 07/11/07							
Gasoline Range Organics (C4-C12)	285	50	ug/l	275	43.6	88	60-115	6	20	
Benzene	4.23	0.50	"	3.30	ND	128	35-145	3	25	
Toluene	23.3	0.50	"	24.2	ND	96	70-115	5	20	
Ethylbenzene	4.48	0.50	"	5.05	ND	89	65-115	5	25	
Xylenes (total)	26.1	0.50	"	29.0	ND	90	70-115	5	20	
Methyl tert-butyl ether	6.20	2.5	"	4.60	ND	135	35-130	4	25	M7
<i>Surrogate: a,a,a-Trifluorotoluene</i>	42.8		"	40.0		107	85-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	42.8		"	40.0		107	75-125			

TestAmerica - Morgan Hill, CA

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

MQG0140
Reported:
07/18/07 10:58

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	RPD Limit	Notes
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Batch 7G11007 - EPA 5030B P/T / EPA 8260B

Blank (7G11007-BLK1)							Prepared & Analyzed: 07/11/07			
1,2-Dichloroethane	ND	0.50	ug/l							
Surrogate: Dibromofluoromethane	2.68	"		2.50		107	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.61	"		2.50		104	60-125			
Surrogate: Toluene-d8	2.39	"		2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.44	"		2.50		98	60-135			
Laboratory Control Sample (7G11007-BS1)							Prepared & Analyzed: 07/11/07			
1,2-Dichloroethane	11.2	0.50	ug/l	10.0		112	70-125			
Surrogate: Dibromofluoromethane	2.81	"		2.50		112	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.72	"		2.50		109	60-125			
Surrogate: Toluene-d8	2.50	"		2.50		100	80-120			
Surrogate: 4-Bromofluorobenzene	2.21	"		2.50		88	60-135			
Matrix Spike (7G11007-MS1)							Prepared & Analyzed: 07/11/07			
1,2-Dichloroethane	9.81	0.50	ug/l	10.0	ND	98	70-125			
Surrogate: Dibromofluoromethane	2.54	"		2.50		102	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.35	"		2.50		94	60-125			
Surrogate: Toluene-d8	2.39	"		2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.38	"		2.50		95	60-135			
Matrix Spike Dup (7G11007-MSD1)							Prepared & Analyzed: 07/11/07			
1,2-Dichloroethane	9.57	0.50	ug/l	10.0	ND	96	70-125	2	25	
Surrogate: Dibromofluoromethane	2.60	"		2.50		104	75-120			
Surrogate: 1,2-Dichloroethane-d4	2.32	"		2.50		93	60-125			
Surrogate: Toluene-d8	2.51	"		2.50		100	80-120			
Surrogate: 4-Bromofluorobenzene	2.26	"		2.50		90	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

MQG0140
Reported:
07/18/07 10:58

Notes and Definitions

- M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- 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

CHAIN OF CUSTODY RECORD

3909

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900
MAG0140

SAMPLING INFORMATION

NAME OF FACILITY: _____
STREET ADDRESS: _____
CITY / STATE: _____
ZIP: _____

PROJECT NAME BPS			JOB NO. 4097041918.01			TOTAL NO. OF CONTAINERS 5	ANALYSES TPH gels 8015 8020 MTBE 8020 Ethylene Dichloride						FOR LAB USE ONLY	
SAMPLERS (SIGNATURE) CH			SAMPLERS INITIALS (PRINT) CS											
SAMPLING DATE 7/2/07														
TIME	GRAB COMP.	MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT									
0930	X	W	409704-4			3	X	X	X					
0950	X	W	409704-2			2	X	X	X					
1015	X	W	409704-1			4	X	X	X					
1630	X	W	409704-3			5	X	X	X					
1040	X	W	409704-5			2	X	X	X					
					<i>Hold This Sample</i>									
RELINQUISHED BY: CH (SIGNATURE)			DATE / TIME 1/2/07 1920	RECEIVED BY: Phuffy TANH (SIGNATURE)	DATE / TIME 1/2/07 1920	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	DATE / TIME						

*MATRIX WATER - W	REMARKS Standard TAT	DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.		
-----------------------------	--------------------------------	--	--	--

WATER - W
L / SEDIMENT - SO
B - NA

REMARKS

Seals Present? Yes No Are Custody Seals Intact? Yes No N/A Inspected By
PhuffyDate
7/2/07

For Lab Use Only

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: MACTEC
 REC. BY (PRINT) P.H.
 WORKORDER: M&G 0140

DATE REC'D AT LAB: 7/2/07
 TIME REC'D AT LAB: 1920
 DATE LOGGED IN: 7/6/07

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 / <input checked="" type="checkbox"/> Absent Intact / Broken*								
2. Chain-of-Custody	Present / <input checked="" type="checkbox"/> Absent*								
3. Traffic Reports or Packing List:	Present / <input checked="" type="checkbox"/> Absent								
4. Airbill:	Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent								
5. Airbill #:									
6. Sample Labels:	Present / <input checked="" type="checkbox"/> 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 / <input checked="" type="checkbox"/> No*								
10. Sample received within hold time?	Yes / <input checked="" type="checkbox"/> No*								
11. Adequate sample volume received?	Yes / <input checked="" type="checkbox"/> No*								
12. Proper preservatives used?	Yes / <input checked="" type="checkbox"/> No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / <input checked="" type="checkbox"/> No*								
14. Read Temp:	<u>4.2°C</u>								
Corrected Temp:	<u>2.2°C</u>								
Is corrected temp 4 +/-2°C? *	Yes / <input checked="" type="checkbox"/> No**								
(Acceptance range for samples requiring thermal pres.)									
**Exception (if any): METALS / DFF ON ICE or Problem COC									

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

APPENDIX B

GROUNDWATER SAMPLING FORM

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

Well/Sample Number	Sample ID
MW-1	409704-1
MW-3	409704-2
MW-5	409704-3
MW-6	409704-4



GROUNDWATER SAMPLING FORM

Job Name: BPS
Job Number: 4097041918.01
Recorded By: CH
(Signature)

Well Number:	MW-6		
Well Type:	<input checked="" type="checkbox"/> Monitor	<input type="checkbox"/> Extraction	<input type="checkbox"/> Other _____
	<input type="checkbox"/> PVC	<input type="checkbox"/> St. Steel	<input type="checkbox"/> Other _____
Date:	7/8/2007		
Sampled By:	<u>C.S.</u> (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): 22.75
No. of Well Volumes to be purged: 3

No Construction logs

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 Vol.

PUMP INTAKE SETTING

Near Bottom Near Top
 Other Middle of screen

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity (NTU)
Initial	6.45	7768	18.9	31.2
Meter S/N				

PURGE TIME

Purge Start: 0925 GPM: _____

Purge Stop: 0930 GPM: _____

Elapsed: 5

PURGE VOLUME

Volume: 1CF gallons

D.O. 1.66 Redox -92.7

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

Baler - Type: _____

Sample Time: 0730

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dupl. Sample No.	Type	Sample No.	Type	Sample No.



GROUNDWATER SAMPLING FORM

Job Name: BPS
Job Number: 4097041918.01
Recorded By: CL
(Signature)

Well Number: **MW-3**
Well Type: Monitor Extraction Other _____
 PVC St. Steel Other _____
Date: 7/6/2007
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): 22.85
No. of Well Volumes to be purged : 3

Screen Interval = 22-32 ft.

PURGE VOLUME CALCULATION

(-) X ² X 3 X 0.0408 = gal

Calculated Purge Volume

PURGE METHOD

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

PUMP INTAKE SETTING

<input type="checkbox"/> Near Bottom	<input type="checkbox"/> Near Top
<input checked="" type="checkbox"/> Other	Middle of screen
Depth in feet (BTOS): _____	
Screen Interval in feet (BTOS): from _____ to _____	

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity (NTU)
Initial	C. 12	337.8	9.2	15.6
Meter S/N				

PURGE TIME

Purge Start: 0940 GPM: _____

Purge Stop: 095-0 GPM: _____

Elapsed: 10

PURGE VOLUME

Volume: 1 *ct.* gallons

Redox -291.8

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: _____

Sample Time: 0950

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dupl. Sample No.	Type	Sample No.	Type	Sample No.



GROUNDWATER SAMPLING FORM

Job Name: **BPS**
 Job Number: **4097041918.01**
 Recorded By: **CWJ**
 (Signature)

Well Number: **MW-1**
 Well Type: Monitor Extraction Other
 PVC St. Steel Other
 Date: **7/8/2007**
 Sampled By: **CS**
 (initials)

Reviewed by _____

WELL PURGING

PURGE VOLUME			PURGE METHOD		
Casing Diameter (D in inches):	2		Bailer - Type:		
Total Depth of Casing (TD in ft BTOC):	33.5		Submersible - Type:		
Water Level Depth (WL in ft BTOC):	23.32		X Other - Type:	Micro Purge	
No. of Well Volumes to be purged :	3				
Screen Interval = 22-32 ft.					
PURGE VOLUME CALCULATION			PUMP INTAKE SETTING		
(-) X	π^2	X 3	X 0.0408 = _____ gals
TD (feet)	WL (Feet)	D (inches)	# V	Calculated Purge Volume	
Depth in feet (BTOC): _____					
			Screen Interval in feet (BTOC): from _____ to _____		

Field Parameter Measurement					
Minutes	pH	Conductivity (μS)	Temp. <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity (NTU)	
Initial	6.32	867	18.4	10.2	
Meter S/N					

PURGE TIME		PURGE RATE		
Purge Start:	10:00	GPM:	_____	
Purge Stop:	10:15	GPM:	_____	
Elapsed:	5			
PURGE VOLUME				
Volume:	164	gallons		
D.O.	2.62	Redox	-316.8	
Observations During Purging (Well Condition, Color, Odor): Clear, slight odor				
Discharge Water Disposal:		<input type="checkbox"/> Sanitary Sewer	<input type="checkbox"/> Storm Sewer	<input type="checkbox"/> Other 55 Gal. drum on site

WELL SAMPLING

<input type="checkbox"/> Bailer - Type:	Sample Time: 10:15				
Sample No.	Volume/Cont.	Analysis Requested		Preservatives	Lab
409704-1	4 VOA's	T.P.H gas (8015 Modified) BTEX (8020) MTBE (8020) Ethylene Dichloride		HCL	Test America

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dupl. Sample No.	Type	Sample No.	Type	Sample No.



GROUNDWATER SAMPLING FORM

Job Name: BPS
Job Number: 4097041918.01
Recorded By: CW
(Signature)

Well Number: **MW-5**

Well Type: Monitor Extraction Other _____
 PVC St. Steel Other _____

Date: **7/6/2007**

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): 21.81
No. of Well Volumes to be purged : 3

Screen Interval = 19-39

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 Vol

PUMP INTAKE SETTING

<input type="checkbox"/> Near Bottom	<input type="checkbox"/> Near Top
<input checked="" type="checkbox"/> Other	Middle of screen
Depth in feet (BTOC): _____	
Screen Interval in feet (BTOC): from to	

Field Parameter Measurement

Minutes	pH	Conductivity (µS)	Temp. <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity (NTU)
Initial	6.69	949	19.2	8.8
Meter S/N				

PURGE TIME

Purge Start: 1025 GPM: _____

Purge Stop: 1030 GPM: _____

Elapsed: 5

PURGE VOLUME

Volume: 1 CF. gallons

D.O. 1,6 i Redox 169.2

Observations During Purging (Well Condition, Colon Odor):

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

WELL SAMPLING

Bailer - Type: _____

Sample Time: _____

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dupl. Sample No.	Type	Sample No.	Type	Sample No.
		Tip	409704-5		

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	7/2	0910	23.39	23.39	Y	Y	OTC	Y	4"	
MW-3	7/2	0155	22.88	22.88	N	N	OTC	Y	4"	
MW-5	7/2	0920	21.81	21.81	Y	N	OTC	Y	2"	
MW-6	7/2	0645	22.78	22.75	Y	N	OTC	Y	2"	
MW-1A	7/2									Car parked on top.
MW-4										In garage

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 pH, Cond, Temp SN 00M0186
" "

Temperature: " "

Specific Conductance: " "

Dissolved Oxygen: YSI 55 SN 01D0873 AD

Turbidity: 2100 P Hach 911000263

Project: BPS - Oakland, Ca Job No.: 409704/1918.01
 Subject: FIELD INVESTIGATION DAILY REPORT Date: 7/2/07
 Equipment Rental: Company: D. Vanstaat
 Equipment Hours: F.E. Time from: to: C. Simpson

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

0700 Depart Petaluma

0830 at BPS Site

Calibrated Equipment

YSI 63 # 00M0186

3160P Turbidimeter # 911000263

YSI 55 DO meter # 6106673

0845 mw-6 WL = 22.75

DO = 1.66 Redox = -92.7

0855 mw-3 WL = 22.88

DO = 1.54 Redox = -291.8

0910 mw-1 WL = 23.39

DO = 1.62 Redox = -316.8

0915 mw 1A - car parked on well. Could not get off.

0920 mw-5 WL = 21.61

DO = 1.61 Redox = 169.2

0930 Sampled mw-6 409704-4

0950 Sampled mw-3 409704-2

1015 Sampled mw-1 409704-1

1030 Sampled mw-5 409704-3

1040 Trip Biante 409704-5

Attachments:

Initial



MACTEC

CHAIN OF CUSTODY RECORD

MACTEC Engineering and Consulting, Inc.
5341 Old Redwood Highway, Suite 300
Petaluma, CA 94954
(707) 793-3800 • FAX (707) 793-3900

**SAMPLING
INFORMATION** NAME OF FACILITY: _____
STREET ADDRESS: _____
CITY / STATE: _____ ZIP: _____

PROJECT NAME BPS				JOB NO. 4097041918.01			TOTAL NO. OF CONTAINERS	ANALYSES TPH 945 9015 BTEX 9020 MTBE 9020 Atilinee Dichloro CJ				
SAMPLERS (SIGNATURE) <i>CH</i>				SAMPLERS INITIALS (PRINT) CS								
SAMPLING DATE 7/2/01												
TIME	GRAB	COMP.	MATRIX	SAMPLE NO.	SAMPLE LOCATION	FIELD MEASUREMENT						
0930	X		W	409704-4	MW-6		3	X	X	X		
0950	X		W	409704-2	MW-3		2	X	X	X		
1015	X		W	409704-1	MW-1		4	X	X	X		
1030	X		W	409704-3	MW-5		5	X	X	X		
1040	X		W	409704-5	Trip	Hold This Sample	2	X	X	X		
RELINQUISHED BY: <i>CH</i>		(SIGNATURE)		DATE / TIME 7/2/01 1920		RECEIVED BY: <i>TA MHI</i>		(SIGNATURE)		DATE / TIME		

*MATRIX

WATER - W
SOIL / SEDIMENT - SO
OTHER - NA

REMARKS

DISTRIBUTION:
PINK COPY RET.

**DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY.
PINK COPY RETAINED BY SAMPLERS. YELLOW COPIES RETAINED BY LABORATORY.**

Standard + A7 PINK COPY RETA

Detections of mtBE to be confirmed by gaco

For Lab Use Only

Are Custody Seals Present? Yes No Are Custody Seals Intact? Yes No N/A Inspected By: _____

Date:

Table 3. Groundwater Monitoring Analytical Results - Using Purge Method
8/1/1991 to 9/29/1999

TPHg (mg/L)	Date Sampled																										
	8/1/1991	9/30/1992	3/30/1993	1/13/1994	4/13/1994	6/29/1994	12/8/1994	4/3/1995	6/27/1995	9/19/1995	12/13/1995	3/6/1996	6/11/1996	9/19/1996	12/23/1996	3/27/1997	6/4/1997	9/26/1997	12/23/1997	3/31/1998	6/18/1998	8/28/1998	12/2/1998	3/10/1999	6/30/1999	9/29/1999 ¹	
MW-1	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	68	59	41	44	32	26	26	18	21				
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	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	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	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	FP	17,000	16,000	13,000	11,000	11,000	8,900	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	220	120	170	45	FP	8,500	610	640	690	180	84	39	86	31	120			
MW-4	1,500	FP	FP	FP	FP	1,500	1,300	1,700	1,200	1,300	2,200	630	2,600	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	16,000	13,000	15,000	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	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	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	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	13,000	6,000	5,300	3,800	1,500	85	540	330	340			
MW-4	6,200	FP	FP	FP	FP	2,500	790	4,100	3,400	1,600	2,100	470	3,600	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	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(0.30)	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	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	FP	2,100	1,500	1,400	910	500	710	790	2,700	2,800	2,100	FP	1,400	1,000	1,400	1,400	1,100	870	31	720	1,600	660	NA
MW-3	670	FP	FP	FP	FP	FP	580	6,000	580	190	68	140	49	68	15	FP	2,400	930	800	870	490	430	25	250	200	230	
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)	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)	ND(0.5)	0.5	ND(0.5)	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	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	FP	14,000	12,000	11,000	9,800	6,300	6,800	5,300	22,000	19,000	14,000	FP	100	7,200	8,500	12,000	6,800	5,800	3,000	6,700	2,300	4,100	NA
MW-3	4,300	FP	FP	FP	FP	4,300	95,000	4,800	1,700	500	440	1,500	300	FP	16,0												

Table 4. Groundwater Monitoring Analytical Results
BPS Reprographic Services Facility
1700 Jefferson St
Oakland CA

TPH _r (mg/L)	Date Sampled																		Date Sampled																	
	9/29/1999 ^c	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 ^d	9/25/2003 ^d	12/29/2003 ^d	5/18/2004	6/30/2004	9/23/2004	12/28/2004	3/16/2005	6/23/2005	9/9/2005	12/2/2005	3/24/2006	6/29/2006	9/13/2006	12/27/2006	3/30/2007	7/2/2007				
MW-1	14	24	19	19	20	18	19	39	31	34	35	35	26	28	16	61	59	46	23	24	22	21	30	7.1	19	29	23	20	31	30	31	30	14			
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	6.97	0.85	3.9	0.76	0.59	1.1	1.3	3	3.1	2.6				
MW-5	10	30	23	19	24	1.8	15	3.6	34	1.9	9.4	1.7	3.2	*6.2	NA ^e	NA ^e	43	26	15	18	42	41	37	27	46	21	ND<10	1.2	5.8	16	31	33				
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<0.5	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	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5							
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	6,200	4,800	4500	6000	5000	2500				
MW-3	180	6.5	8.3	11	28	20	9	150	42	8	11	139	330	110	370	200	150	160	77	81	140	340	1.4	56	470	14	83	130	260	250	250					
MW-5	14,000	11,000	12,000	9,900	3,800	470	7,400	300	8,300	2,300	110	320	*2200	NA ^f	NA ^f	12,000	7700	5,000	5,700	12,000	10,000	11,000	7,700	10,000	5900	2800	240	1600	4300	10000	9400					
MW-6	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<0.5	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	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	3,500	6,000	4,000	3900	5300	4600	2000				
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	41	38	71	160	260	250				
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 ^f	NA ^f	2800	1900	1,300	1,600	3,900	3,800	1,700	2,700	1500	450	11	210	610	1400	1400					
MW-6	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<0.5	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	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5							
Ethylbenzene (µg/L)																																				
MW-1	620	730	530	730	540	640	570	660	560	630	740	870	620	660	680	1200	1000	960	450	390	470	380	470	520	120	410	620	330	400	710	520	280				
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	1900	34.0	36	11	0.66	ND<5	33	2.4	7.3	16	44	49	46					
MW-5	1,100	1,500	1,200	1,200	460	39	1000	16	1,400	55	300	7.2	22	*160	NA ^f	NA ^f	1500	910	380	540	1,200	1,000	1,00	680	1,100	600	190	13	180	460	1100	1000				
MW-6	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<0.5	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	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																							