



September 27, 2004

Project 4097041918 Task 01

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

**Groundwater Remediation and Monitoring Report  
Second Quarter 2004  
BPS Reprographic Services Facility  
1700 Jefferson Street  
Oakland, California**

Dear Mr. Blain:

MACTEC Engineering and Consulting, Inc., presents this quarterly status letter-report on the groundwater monitoring and remedial activities at the BPS Reprographic Services (BPS) facility located at 1700 Jefferson Street in Oakland, California (Plate 1). This letter-report covers the month of June, 2004, and was prepared to satisfy the quarterly groundwater monitoring requirements of the Alameda County Department of Health Care Services (ACHCS). The previous letter-report described First Quarter groundwater monitoring activities performed on May 18, 2004. The groundwater monitoring event described in this letter report occurred on June 30, 2004, the last day of the second quarter and represents the Second Quarter 2004 monitoring point. From this report forward, the remaining quarterly groundwater monitoring events and the associated reports will follow the typical quarterly monitoring and reporting schedule.

**BACKGROUND**

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

MACTEC Engineering and Consulting, Inc.  
28 Second Street  
Suite 700 • San Francisco, CA 94105  
415-543-8422 • Fax: 415-777-9706

September 24, 2004  
4097041918 Task 01  
Mr. David Blaine  
BPS Reprographic Services  
Page 2

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

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

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

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

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

During the Fourth Quarter 2002 groundwater monitoring event MACTEC removed the ORC™ socks from the treatment wells per a request from the ACHCS in a September 27, 2002 letter to BPS. The

ACHCS suggested that contaminant concentrations may not be accurate due to the presence of the ORC™ socks and requested the socks be removed and DO allowed to return to back ground levels. Additionally, the ACHCS suggested in the same letter that the ORC™ socks appear to be ineffective as contaminant concentrations continue to be high in MW-1 and MW-5.

During the Fourth Quarter 2002 groundwater monitoring event MACTEC monitored groundwater monitoring MW-1, MW-3, MW-5 and MW-6 for tert Amyl Methyl Ether, Ethyl tert Butyl Ether, Diisopropyl Ether, tert Butyl Alcohol, Ethylene Dibromide, and Ethylene Dichloride (EDC) per a request from the ACHCS in the September 27, 2002 letter to BPS. Analytical results indicated none of these analytes were detected in any wells except EDC in MW-1 and MW-5. EDC is monitored in MW-1 and MW-5 quarterly now as required by the ACHCS.

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

## **SECOND QUARTER 2004 GROUNDWATER SAMPLING AND ANALYSIS**

On June 30, 2004, MACTEC conducted the quarterly groundwater monitoring of MW-1, MW-3, MW-5 and MW-6 (Plate 1) using the non-purge sampling method as described in the Enhanced Insitu-Bioremediation and Groundwater Monitoring Procedures letter dated August 17, 1999. The non-purge sampling method was re-evaluated as requested by the ACHCS in a letter dated September 27, 2003. After review of the evaluation data and analysis presented in the Second Quarter 2003 Groundwater Monitoring Report, the ACHCS approved non-purge sampling for use at the site in a letter dated February 13, 2004.

Groundwater parameters collected during sampling are shown on Table 1. Prior to sampling, MACTEC measured the depth to groundwater from the top of casing (TOC) of wells MW-1, MW-3, MW-5 and MW-6 using an electronic water level indicator. These measurements are displayed on Plate 2 and tabulated in Table 2.

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

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

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) in accordance with EPA Method 8020.
- Methyl tertiary butyl ether (MTBE) in accordance with EPA Method 8020 with confirmation of detections by EPA Method 8260.
- Ethylene Dichloride (EDC) by EPA Method 8260.

Historical analytical results for TPH-g, BTEX and MTBE collected through September 29, 1999 are shown on Table 3. Second Quarter 2004 analytical results for TPH-g, BTEX, MTBE and EDC are displayed on Plate 3. Analytical results collected since September 29, 1999 are shown on Table 4 and presented graphically on Plate 4. Analytical results for Tert-amyl methyl ether (TAME), Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), Ethylene Dibromide (EDB), Ethyl tert Butyl Ether (ETBE) and EDC are displayed on Table 5. Historical groundwater elevations are shown graphically on Plate 5. The certified analytical reports (CARs) are presented in the Appendix A.

Second Quarter 2004 sample results from June 30, 2004 were collected using the non-purge method previously used between September 1999 and July 2003.

## DISCUSSION

### Groundwater Monitoring Data

As shown in Table 2 and on Plate 5, the groundwater surface elevation decreased an average of 0.06 feet across the site as compared to last quarter's measurements. Using the groundwater elevations from MW-1, MW-3, MW-5 and MW-6 as measured on June 30, 2004, groundwater contours were created and are shown on Plate 2. Based on the groundwater elevations, the groundwater gradient is approximately 0.002 ft/ft. The direction of flow appears to be in a Northerly direction which is not typical.

As shown on Plate 4 and Table 4, Second Quarter 2004 (6/30/04) monitoring event concentrations of TPH-g and BTEX in all wells generally appear to be trending down when compared to historical values. As shown on Table 4, MTBE remains non-detectable in all wells. As shown on Plate 4 and Table 4, significant spikes in TPH-g and BTEX concentrations occurred in MW-1 during the Second Quarter 2003 (7/1/2003) monitoring event. Since that event, concentrations appear to be trending down and significant reductions in these analytes occurred as demonstrated by the recent analytical data (5/18/2004 and 6/30/2004 monitoring events). Similarly, significant spikes in TPH-g and BTEX concentrations occurred in MW-3 during the Second Quarter 2003 (7/1/2003) monitoring event and a significant spike in Benzene in MW-3 occurred during the First Quarter 2003 (4/1/2003) monitoring event. Since these events concentrations appear to be trending down and significant reductions in these analytes occurred as demonstrated by the recent analytical data. However, TPH-g and BTEX in MW-5 appear to be slightly up from last quarter data. Concentrations of TPH-g and BTEX in MW-6 remain non-detectable for all monitoring events. As shown in Table 4, the following show the range of monitored data for the Second Quarter (June 30, 2004) event:

TPH-g ranged from non-detectable with a detection limit of 0.05 mg/l (MW-6) to 24 mg/l (MW-1). Benzene ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 5,700 ug/l (MW-5). Toluene ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 3,600 ug/l (MW-1). Ethylbenzene ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 540 ug/l (MW-5). Total Xylenes ranged from non-detectable with a detection limit of 0.5 ug/l (MW-6) to 1,300 ug/l (MW-1). MTBE was not detected in samples from any of the groundwater monitoring wells this quarter with detection limits ranging from 1.0 ug/l (MW-3) to 50 ug/L (MW-1).

Analytical results for TAME, TBA, DIPE, EDB, ETBE and EDC are displayed on Table 5. As described in the ACHCS September 27, 2002 letter to BPS these analyses were performed per ACHCS request during the Fourth Quarter 2002 monitoring event. None of these analytes were detected in any of the groundwater samples collected from MW-1, MW-3, MW-5 and MW-6 except for EDC. EDC was detected in the samples collected from MW-1 at a concentration of 370 ug/L and MW-5 at a concentration of 220 ug/L. Per ACHCS direction, if any of these analytes were not detected during the Fourth Quarter 2002 monitoring event then the analyte does not need subsequent monitoring. Analysis for EDC was performed in groundwater samples from MW-1 and MW-5 during the Second Quarter 2004 event. EDC was detected in the sample from MW-1 at a concentration of 320 ug/L. EDC was detected in the sample from MW-5 at a concentration of 610 ug/L.

As described above, the ORC™ socks were removed from all treatment wells during the Fourth Quarter 2002 monitoring event per ACHCS request (except MW-5, ORC™ socks removed from this well September 17, 2003). The ORC™ socks were removed to allow the DO concentrations in each well to return to background levels. Prior to sampling during the Second Quarter 2004 event, DO was monitored in each well. The DO concentrations ranged from 0.43 in MW-1 to 1.08 in MW-6. The DO concentrations appear to have returned to background levels. DO will continue to be monitored in these wells.

## RECOMMENDATIONS

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

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

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

September 22, 2004  
4097041918 Task 01  
Mr. David Blaine  
BPS Reprographic Services  
Page 6

If you have any questions, please contact the undersigned at (415) 278-2118.

Sincerely,

**MACTEC ENGINEERING AND CONSULTING, INC.**



David S. Nanstad  
Project Engineer



Henry Lin  
Principal Engineer



*EXPIRE 12/31/05*

DSN :/Cityblue/2Q04

4 copies submitted

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

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

- 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	2.90	1.70	0.40	1.80
11/5/1999	4.00	10.30	4.00	2.80
11/22/1999	1.80	2.40	2.00	3.20
1/28/2000	2.90	8.40	3.60	2.20
2/11/2000	2.50	2.30	1.80	3.50
5/12/2000	2.00	7.40	2.40	1.70
5/30/2000	1.90	2.60	1.80	3.20
9/1/2000	2.90	3.40	2.30	2.70
9/15/2000	2.00	1.80	2.20	3.80
11/9/2000	NA	5.00	5.30	NA
11/17/2000	3.10	4.20	3.40	6.00
3/15/2001	2.00	7.00	1.40	2.10
4/2/2001	1.00	0.78	2.00	0.99
6/1/2001	0.22	0.24	6.62	0.32
6/28/2001	0.32	0.56	0.53	0.71
8/16/2001	0.48	6.52	1.61	0.78
8/30/2001	0.33	0.40	0.23	0.46
12/14/2001	0.03	3.76	2.22	0.16
12/26/2001	0.16	0.28	0.19	0.21
4/10/2002	0.55	0.63	0.20	0.37
4/23/2002	0.30	0.35	0.90	0.45
6/3/2002	0.38	5.16	4.32	0.65
6/14/2002	0.29	0.34	0.38	0.31
8/5/2002	0.33	0.28	0.40	0.39
8/14/2002	0.34	0.28	0.42	0.63
12/6/2002	1.00	0.90	NA <sup>2</sup>	0.62
12/27/2002	0.94	0.96	NA <sup>2</sup>	1.24
4/1/2003 <sup>3</sup>	0.30	1.06	NA <sup>2</sup>	NA <sup>1</sup>
7/1/2003 <sup>3b</sup>	7.65	7.70	NA <sup>2</sup>	7.2
9/24/2003 <sup>3b</sup>	6.25	7.16	0.55	0.9
12/29/2003 <sup>3</sup>	0.18	0.33	0.58	0.6
5/18/2004	0.42	0.45	0.44	0.44
6/30/2004	0.43	0.70	0.51	1.08
<b>REDOX (mvolts)</b>				
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	NA	NA	NA
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 <sup>2</sup>	-12
4/1/2003 <sup>3</sup>	-82	-75	NA <sup>2</sup>	172
7/1/2003 <sup>3</sup>	212	230	NA <sup>2</sup>	227
9/24/2003 <sup>3</sup>	-166	-300	-183	50
12/29/2003 <sup>3</sup>	-329	-198	-269.1	113.7
5/18/2004	-309	-189	-248	115.4
6/30/2004	-270	-343	-164.5	104.2
<b>Temperature (deg F)</b>				
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 <sup>2</sup>	41.7
4/1/2003 <sup>3</sup>	64.6	67.6	NA <sup>2</sup>	68.0
7/1/2003 <sup>3b</sup>	79.4	80.3	NA <sup>2</sup>	81.9
9/24/2003 <sup>3</sup>	65.1	67.1	65.7	68.5
12/29/2003 <sup>3</sup>	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

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

pH	MW-1	MW-3	MW-5	MW-6
9/29/1999	8.39	8.53	8.43	8.44
11/22/1999	6.86	8.42	6.84	6.79
2/11/2000	6.80	6.94	6.83	6.72
5/30/2000	7.02	7.35	7.54	7.56
9/15/2000	7.06	7.54	6.76	6.62
11/17/2000	7.37	7.69	7.12	7.34
4/2/2001	6.98	6.61	7.07	6.96
6/28/2001	6.90	6.74	6.78	6.83
8/30/2001	7.85	7.91	7.9	8.41
12/26/2001	6.23	6.91	7.11	6.72
4/23/2002	6.90	6.95	6.94	6.86
6/14/2002	7.05	7.24	7.08	6.89
8/20/2002	NA	6.89	NA <sup>1</sup>	6.91
12/27/2002	6.33	6.41	NA <sup>2</sup>	6.49
4/1/2003 <sup>b</sup>	6.90	7.08	NA <sup>2</sup>	6.70
7/1/2003 <sup>b</sup>	7.42	7.59	NA <sup>2</sup>	7.68
9/24/2003 <sup>b</sup>	7.12	7.34	7.25	7.17
12/29/2003 <sup>b</sup>	6.72	6.47	6.75	6.69
5/18/2004	6.67	6.54	6.7	6.48
6/30/2004	6.60	6.57	6.28	<sup>1</sup> NA
<b>Specific Conductance (µS/cm)</b>				
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 <sup>2</sup>	903
4/1/2003 <sup>b</sup>	1128	800	NA <sup>2</sup>	1021
7/1/2003 <sup>b</sup>	1020	690	NA <sup>2</sup>	970
9/24/2003 <sup>b</sup>	951	697	987	890
12/29/2003 <sup>b</sup>	1143	396	993	934
5/18/2004	1060	692	922	1037
6/30/2004	1006	725	970	962

**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 due to instrument malfunction

1 = indicates data not available due to equipment malfunction

2 = DO not available due to ORC socks stuck in well on these dates

a = indicates dissolved oxygen and temperature readings collected on this date above typical range and should be considered suspect

b = indicates this data collected post purge



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

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

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

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

TPHg (mg/L)	Date Sampled															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 <sup>1</sup>	
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)	
<b>Benzene (µg/L)</b>																											
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)	
<b>Toluene (µg/L)</b>																											
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	14,000	4,500	3,000	3,000	3,700	3,800	2,300	4,300	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)	
<b>Methylbenzene (µg/L)</b>																											
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	1,500	1,600	1,400	1,100	550	730	820	870	950	1,200	
MW-1A	3,000	FP	FP	FP	2,100	1,500	1,400	910	500	710	790	2,700	2,800	2,100	FP	1,400	1,000	1,400	1,400	1,100	870	31	720	1,600	660	NA	
MW-3	670	FP	FP	FP	FP	580	6,000	580	190	68	140	49	68	15	FP	FP	2,400	930	800	870	490	430	25	250	200	230	
MW-4	1,000	FP	FP	FP	520	51	310	280	77	110	14	780	3,700	2,000	FP	540	140	350	580	NA	ND(15)	890	ND(15)	88	150	NA	
MW-5	1,900	1,400	1,800	1,400	1,500	2,800	1,800	2,800	1,400	2,000	16,000	2,000	2,000	2,300	2,700	1,900	1,500	1,500	1,900	2,000	420	1,100	1,500	1,800	1,100	1,100	
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	0.5	ND(0.5)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
<b>Xylenes (µg/L)</b>																											
MW-1	FP	FP	FP	FP	FP	FP	FP	NA	NA	NA	NA	NA	FP	FP	FP	FP	11,000	8,600	6,600	4,500	3,000	2,100	2,800	3,500	2,500	5,500	
MW-1A	22,000	FP	FP	FP	14,000	22,000	11,000	9,800	6,300	6,800	5,300	22,000	19,000	14,000	FP	100	7,200	8,500	12,000	6,800	5,800	3,000	6,700	2,300	4,100	NA	
MW-3	4,300	FP	FP	FP	FP	4,300	95,000	4,800	1,700	500	1,700	440	1,500	300	FP	FP	16,000	5,900	5,900	5,200	3,700	3,800	360	2,300	1,800	1,300	
MW-4	7,300	FP	FP	FP	3,200	3,400	5,400	5,800	1,800	2,100	1,800	10,000	28,000	13,000	FP	5,500	3,500	4,800	8,200	NA	6,400	5,000	2,300	1,600	2,700	NA	
MW-5	4,900	2,600	2,700	2,700	2,100	4,500	2,900	4,500	1,600	2,100	1,900	2,400	2,700	4,000	6,500	2,800	1,700	1,300	1,700	2,200	850	900	840	1,100	690	1,100	
MW-6	--	--	--	--	--	--	--	--	--	--	--	--	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)	
<b>MTBE (µg/L)</b>																											
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

<sup>1</sup> A sample was collected on this date both post and pre purge. The sample results collected pre purge are shown on Table 3.

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

	9/29/1999 <sup>f</sup>	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 <sup>g</sup>
<b>TPH<sub>g</sub> (mg/L)</b>															
MW-1	14	24	19	19	20	18	19	39	31	34	35	35	26	28	16
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
MW-5	10	30	23	19	24	1.8	15	3.6	34	1.9	9.4	1.7	3.2	*6.2	NA <sup>4</sup>
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
<b>Benzene (µg/L)</b>															
MW-1	6,200	4,900	4,100	5,700	4,100	3,500	4,700	5,200	5,600	5,300	4,900	5,400	4,100	4,500	4,500
MW-3	180	6.5	8.3	11	28	20	9	150	42	8	11	130	330	110	370
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 <sup>4</sup>
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
<b>Toluene (µg/L)</b>															
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	4,700	5,000	6000
MW-3	340	33	20	5.6	14	34	6.2	240	48	5.2	4.8	470	170	280	150
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 <sup>4</sup>
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
<b>Ethylbenzene (µg/L)</b>															
MW-1	620	730	530	730	540	640	570	660	560	630	740	870	620	660	680
MW-3	130	27	2.4	0.45	2.6	25	1.4	38	26	1.1	0.72	91	40	57	44
MW-5	1,100	1,500	1,200	1,200	460	39	1000	16	1,400	55	300	7.2	22	*160	NA <sup>4</sup>
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
<b>Total Xylenes (µg/L)</b>															
MW-1	3,500	3,500	2,800	3,500	2,700	3,200	2,600	3,900	2,500	2,400	3,100	3,500	2,700	3,000	3100
MW-3	580	260	28	17	160	28	8.1	160	210	7	1.4	390	150	260	230
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 <sup>4</sup>
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
<b>MTBE (µg/L) (EPA Method 8020)</b>															
MW-1	ND<250	ND<100	6.6	ND<5.0 <sup>1</sup>	ND<12 <sup>1,2</sup>	ND<40 <sup>1,2</sup>	50 <sup>1</sup>	8.5 <sup>1</sup>	ND<100 <sup>2</sup>	ND<120	ND<120	ND<250	ND<120	ND<120	ND<120
MW-3	14	ND<1.0	31	ND<5.0 <sup>1</sup>	ND<5 <sup>1</sup>	ND<5 <sup>1</sup>	77 <sup>1</sup>	ND<2 <sup>1</sup>	ND<1.2 <sup>1</sup>	ND<0.50 <sup>1</sup>	ND<0.50 <sup>1</sup>	ND<0.50 <sup>1</sup>	ND<5 <sup>1</sup>	19	ND<1.0 <sup>1</sup>
MW-5	ND<100	ND<100	6.6	ND<200	ND<10 <sup>1,2</sup>	ND<5 <sup>1</sup>	ND<50 <sup>1</sup>	4.4 <sup>1</sup>	ND<50 <sup>1</sup>	ND<10 <sup>1</sup>	ND<50	ND<0.50 <sup>1</sup>	ND<0.50 <sup>1</sup>	*ND(25)	NA <sup>4</sup>
MW-6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5 <sup>1,2</sup>	17 <sup>1</sup>	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
<b>Ethylene Dichloride<sup>7</sup> (µg/L) (EPA Method 8260)</b>															
MW-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370	ND<120
MW-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<12	NR
MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220	NA <sup>4</sup>
MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.5	NR

mg/l = milligrams per liter

µg/l = micrograms per liter

NR = Not Required

ND = Not detected above the reporting limit following the less than sign

NA = Not Applicable

MTBE = methyl t-butyl ether

1 Result of MTBE confirmation by EPA Method 8260.

2 Reporting limits elevated due to matrix interference.

3 Detection limit = 5 µg/L, backup sample analyzed after hold time had a result of ND<5 µg/l.

4 Data from April 1 and July 1, 2003 sampling event not available due to ORC sock obstruction in well (see report for details)

5 Samples collected post purge on this date, all other samples collected without purging (see report for details)

6 A sample was collected on this date both post and pre purge. The sample results collected post purge is shown on Table 3.

7 Monitoring for EDC began 12/27/02 per ACHCS requirement - See Table 5 for complete list of EPA 8260 analytes initially requested for monitoring. EDC was the only analyte detected of the ACHCS list and only in wells MW-1 and MW-5.

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

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

TPHg (mg/L)	7/1/2003 <sup>5</sup>	9/25/2003 <sup>5</sup>	12/29/2003 <sup>5</sup>	5/18/2004	6/30/2004
MW-1	61	59	46	23	24
MW-3	12	10	7.3	1.5	2.0
MW-5	NA <sup>4</sup>	43	26	15	18
MW-6	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
<b>Benzene (µg/L)</b>					
MW-1	7,700	7600	6600	4,100	3,500
MW-3	200	150	160	77	81
MW-5	NA <sup>4</sup>	12000	7700	5,000	5,700
MW-6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
<b>Toluene (µg/L)</b>					
MW-1	11,000	9400	7900	4,700	3,600
MW-3	460	300	250	72	37
MW-5	NA <sup>4</sup>	2800	1900	1,300	1,600
MW-6	ND<0.05	ND<0.05	ND<0.05	ND<0.5	ND<0.5
<b>Ethylbenzene (µg/L)</b>					
MW-1	1200	1000	960	450	390
MW-3	130	120	79	19.00	34.0
MW-5	NA <sup>4</sup>	1500	910	380	540
MW-6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
<b>Total Xylenes (µg/L)</b>					
MW-1	6700	4800	4000	1,500	1,300
MW-3	390	280	210	59	40
MW-5	NA <sup>4</sup>	3000	210	770	1,200
MW-6	ND<2.5	ND<2.5	ND<0.5	ND<0.5	ND<0.5
<b>MTBE (µg/L) (EPA Method 8020)</b>					
MW-1	ND<250	ND<1200	ND<250	ND<50	ND<50
MW-3	ND<5 <sup>1</sup>	ND<2.5 <sup>1</sup>	ND<2.5 <sup>1</sup>	ND<12	ND<1.0
MW-5	NA <sup>4</sup>	ND<1200	ND<2.5 <sup>1</sup>	ND<50	ND<50
MW-6	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
<b>Ethylene Dichloride<sup>7</sup> (µg/L)</b> (EPA Method 8260)					
MW-1	400	<sup>4</sup> 500	360	320	320
MW-3	NR	NR	NR	NR	NR
MW-5	NA <sup>4</sup>	610	410	290	610
MW-6	NR	NR	NR	NR	NR

mg/l = milligrams per liter

µg/l = micrograms per liter

NR = Not Required

ND = Not detected above the reporting limit following the less than sign

NA = Not Applicable

MTBE = methyl t-butyl ether

1 Result of MTBE confirmation by EPA Method 8260.

2 Reporting limits elevated due to matrix interference.

3 Detection limit = 5 µg/L, backup sample analyzed after hold time had a result of ND<5 µg/l.

4 Data from April 1 and July 1, 2003 sampling event not available due to ORC sock obstruction in well (see report for details)

5 Samples collected post purge on this date, all other samples collected without purging (see report for details)

6 A sample was collected on this date both post and pre purge. The sample results collected post purge is shown on Table 3.

7 Monitoring for EDC began 12/27/02 per ACHCS requirement - See Table 5 for complete list of EPA 8260 analytes initially requested for monitoring.

EDC was the only analyte detected of the ACHCS list and only in MW-1 and MW-5.

**Table 5. Groundwater Monitoring Analytical Results**

**EPA Method 8260**

**BPS Reprographic Services Facility**

**1700 Jefferson Street**

**Oakland, California**

	<sup>1</sup> 12/27/2002	<sup>2</sup> 4/1/2003	<sup>2</sup> 7/1/2003	<sup>2</sup> 9/25/2003	<sup>2</sup> 12/29/2003	<sup>1</sup> 5/18/2004	<sup>1</sup> 6/30/2004
<b>tert Amyl Methyl Ether (µg/L)</b>							
MW-1	ND<250	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR
<b>Ethyl tert Butyl Ether (µg/L)</b>							
MW-1	ND<250	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR
<b>Di-isopropyl Ether (µg/L)</b>							
MW-1	ND<250	NR	NR	NR	NR	NR	NR
MW-3	ND<25	NR	NR	NR	NR	NR	NR
MW-5	*ND<100	NR	NR	NR	NR	NR	NR
MW-6	ND<1	NR	NR	NR	NR	NR	NR
<b>tert Butyl Alcohol (µg/L)</b>							
MW-1	ND<5000	NR	NR	NR	NR	NR	NR
MW-3	ND<500	NR	NR	NR	NR	NR	NR
MW-5	*ND<2000	NR	NR	NR	NR	NR	NR
MW-6	ND<20	NR	NR	NR	NR	NR	NR
<b>Ethylene Dibromide (µg/L)</b>							
MW-1	ND<120	NR	NR	NR	NR	NR	NR
MW-3	ND<12	NR	NR	NR	NR	NR	NR
MW-5	*ND<50	NR	NR	NR	NR	NR	NR
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR
<b>Ethylene Dichloride (µg/L)</b>							
MW-1	370	ND<120	400	<sup>a</sup> 500	360	320	320
MW-3	ND<12	NR	NR	NR	NR	NR	NR
MW-5	*220	NR	NR	610	410	290	610
MW-6	ND<0.5	NR	NR	NR	NR	NR	NR

**Notes:**

Analytes shown on this table monitored per ACHCS requirement described in the September 27, 2002 letter to BPS from the ACHCS (see report text for details).

µg/l = micrograms per liter

ND = Not detected above the reporting limit

NR = Not Required per ACHCS direction indicating if analyte not detected during 12/27/02 sampling event then the analyte does not need continued monitoring/MW-1 and MW-5 are the only wells currently sampled for Ethylene Dichloride (see report text for details)



\* = Analytical data collected for MW-5 on January 3, 2003

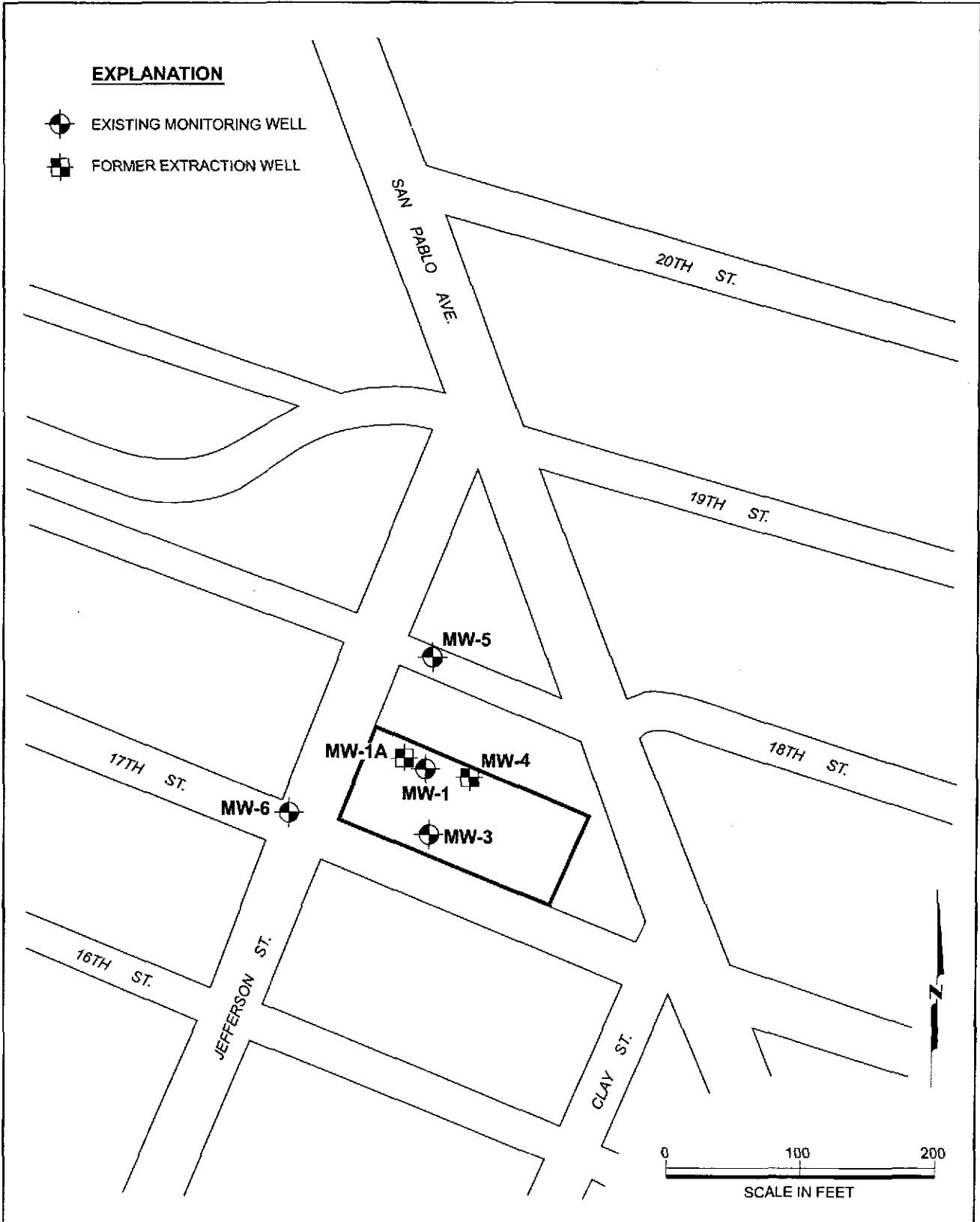
a = EDC detected at same concentration as detection limit

1 = Samples on this date collected without purging

2 = Samples on this date collected post purge

**EXPLANATION**

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL



**MACTEC**

Site Map  
Second Quarter 2004  
1700 Jefferson Street  
BPS Reprographic Services Facility  
Oakland, California

PLATE

**1**

DRAWN  
CN





PROJECT NUMBER  
4097041918 01

APPROVED

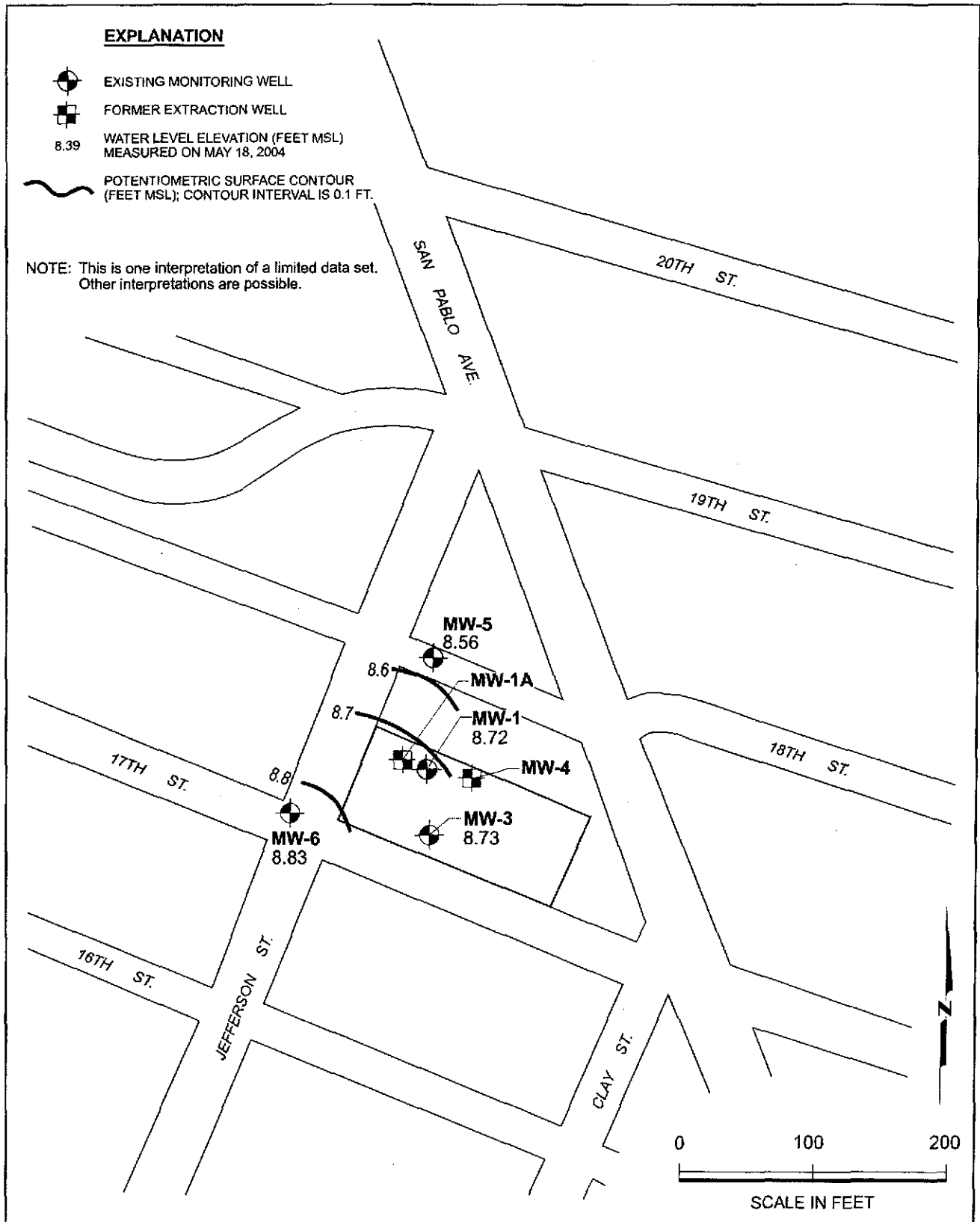
DATE  
7/04

REVISED DATE

**EXPLANATION**

-  EXISTING MONITORING WELL
-  FORMER EXTRACTION WELL
- 8.39  WATER LEVEL ELEVATION (FEET MSL)  
MEASURED ON MAY 18, 2004
-  POTENTIOMETRIC SURFACE CONTOUR  
(FEET MSL); CONTOUR INTERVAL IS 0.1 FT.

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



**MACTEC**

Groundwater Contours  
Second Quarter 2004  
1700 Jefferson Street  
BPS Reprographic Services Facility  
Oakland, California

PLATE

**2**

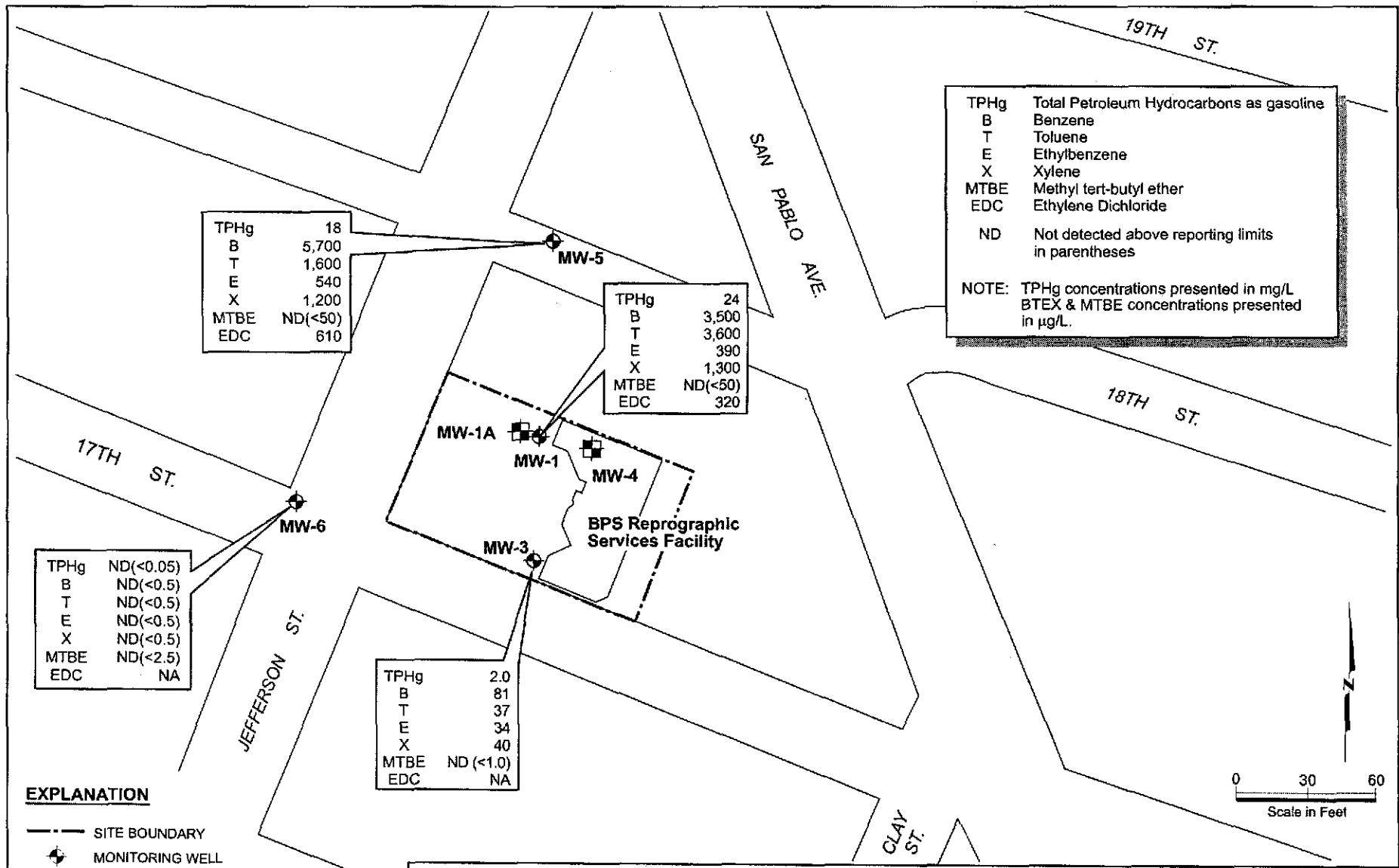
DRAWN  
CN

PROJECT NUMBER  
4097041918 01

APPROVED

DATE  
7/04

REVISED DATE



TPHg	Total Petroleum Hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Xylene
MTBE	Methyl tert-butyl ether
EDC	Ethylene Dichloride
ND	Not detected above reporting limits in parentheses

NOTE: TPHg concentrations presented in mg/L  
BTEX & MTBE concentrations presented in µg/L.

TPHg	18
B	5,700
T	1,600
E	540
X	1,200
MTBE	ND(<50)
EDC	610

TPHg	24
B	3,600
T	3,600
E	390
X	1,300
MTBE	ND(<50)
EDC	320

TPHg	ND(<0.05)
B	ND(<0.5)
T	ND(<0.5)
E	ND(<0.5)
X	ND(<0.5)
MTBE	ND(<2.5)
EDC	NA

TPHg	2.0
B	81
T	37
E	34
X	40
MTBE	ND (<1.0)
EDC	NA

**EXPLANATION**

- SITE BOUNDARY
- ◆ MONITORING WELL
- ⊕ FORMER EXTRACTION WELL
- mg/L MILIGRAMS PER LITER
- µg/LT MICROGRAMS PER LITER
- NA NOT APPLICABLE (ONLY WELLS MW-1 AND MW-5 REQUIRE EDC MONITORING - SEE REPORT)



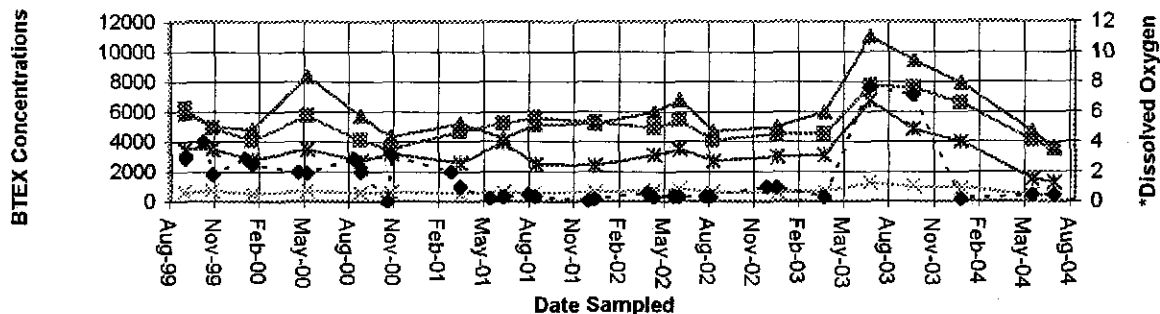
**MACTEC**

DRAWN CN	PROJECT NUMBER 4097041918 01	APPROVED	DATE 7/04	REVISED DATE
-------------	---------------------------------	----------	--------------	--------------

TPHg, BTEX, and MTBE Concentrations in Groundwater PLATE  
Second Quarter 2004  
1700 Jefferson Street  
BPS Reprographic Services Facility  
Oakland, California

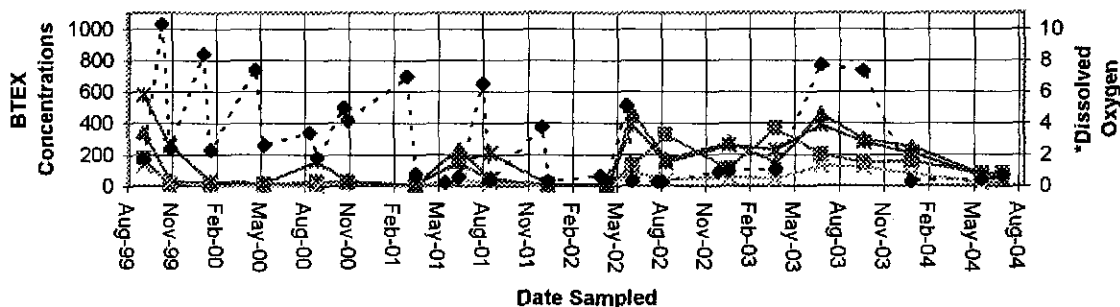


MW-1



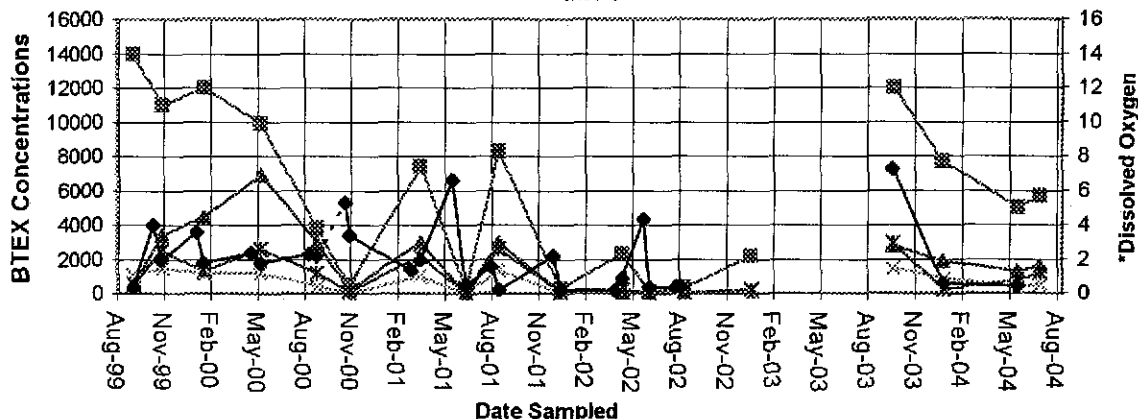
(Samples collected post purge between July 2003 and December 2003, all other samples collected pre-purge. ORC removed after Sept. 2002.)

MW-3



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

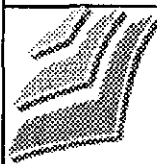
MW-5



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

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

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



**MACTEC**

**BTEX and DO Results**  
 Second Quarter 2004  
 BPS Reprographic Services Facility  
 1700 Jefferson Steet  
 Oakland, California

Plate  
**4**

Drawn by  
 DSN

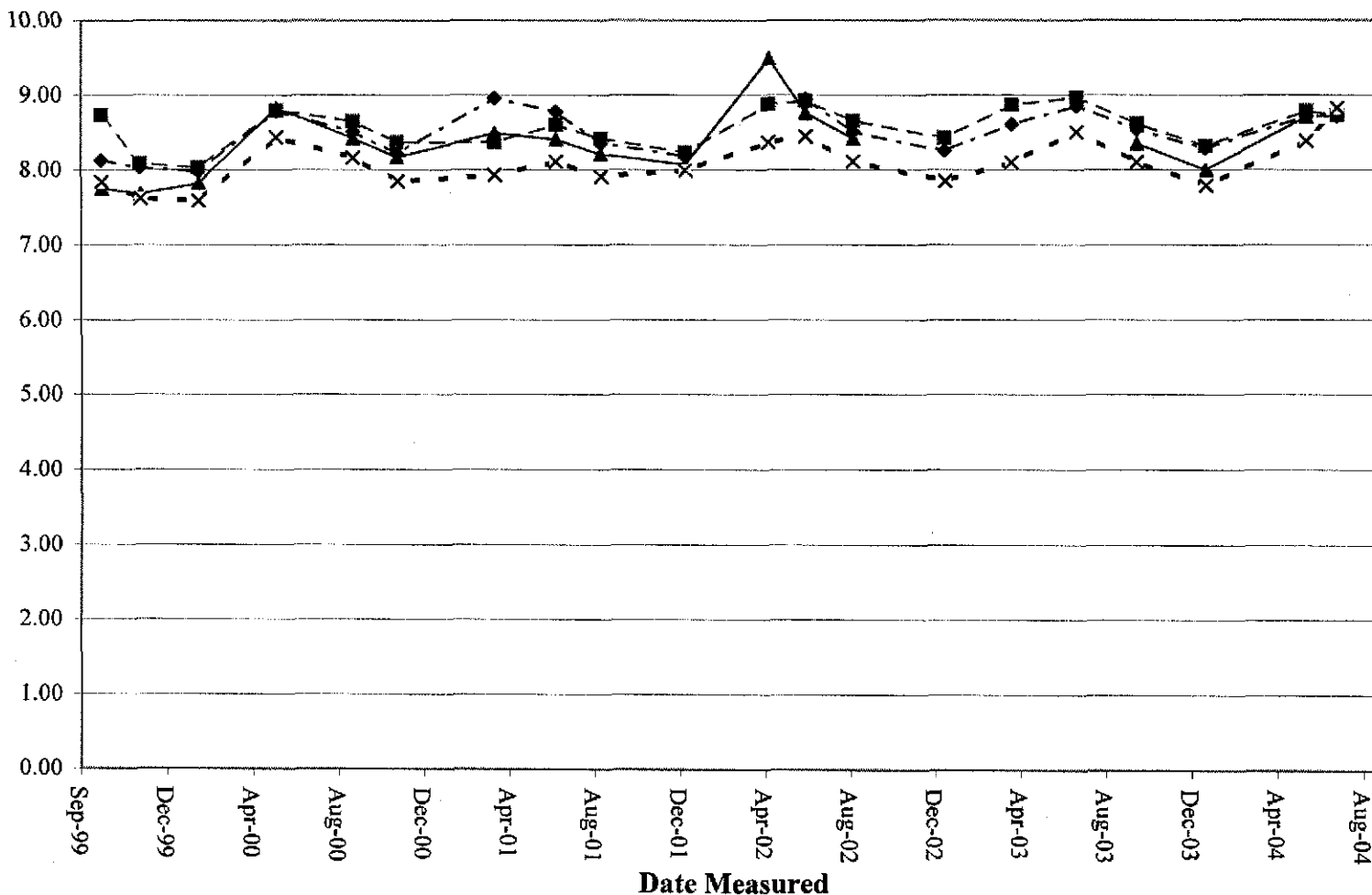
JOB NUMBER  
 4097041918

APPROVED

DATE  
 Aug-04

REVISION DATE

Groundwater Elevation  
(ft. City of Oakland Datum)



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



**MACTEC**

Groundwater Elevation Data  
Second Quarter 2004  
BPS Reprographic Services Facility  
1700 Jefferson Street  
Oakland, California

Plate

**5**

DRAWN  
DSN

JOB NUMBER  
4097041918

APPROVED

DATE  
August-04

REVISION DATE

**APPENDIX A**  
**LABORATORY REPORTS**



23 July, 2004

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

RE: General Commercial  
Work Order: P406541

Enclosed are the results of analyses for samples received by the laboratory on 06/30/04 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch  
Dept Manager - Client Services

CA ELAP Certificate #2374



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

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Report #:   
07/23/04 10:48

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
041918003	P406541-01	Water	06/30/04 09:40	06/30/04 13:10
041918001	P406541-02	Water	06/30/04 10:15	06/30/04 13:10
041918006	P406541-03	Water	06/30/04 11:15	06/30/04 13:10
041918005	P406541-04	Water	06/30/04 11:50	06/30/04 13:10



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

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>041918003 (P406541-01) Water Sampled: 06/30/04 09:40 Received: 06/30/04 13:10</b>										
Gasoline Range Organics (C6-C10)	2000	250		ug/l	5	4070125	07/08/04	07/08/04	EPA 8015B/8021	B
Benzene	81	2.5	"	"	"	"	"	"	"	"
Toluene	37	2.5	"	"	"	"	"	"	"	"
Ethylbenzene	34	2.5	"	"	"	"	"	"	"	"
Xylenes (total)	40	2.5	"	"	"	"	"	"	"	"
Methyl tert-butyl ether	14	12	"	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene		98 %		65-135	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		87 %		65-135	"	"	"	"	"	"
<b>041918001 (P406541-02) Water Sampled: 06/30/04 10:15 Received: 06/30/04 13:10</b>										
Gasoline Range Organics (C6-C10)	24000	2500		ug/l	50	4070125	07/08/04	07/08/04	EPA 8015B/8021	B
Benzene	3500	25	"	"	"	"	"	"	"	"
Toluene	3600	25	"	"	"	"	"	"	"	"
Ethylbenzene	390	25	"	"	"	"	"	"	"	"
Xylenes (total)	1300	25	"	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	120	"	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene		90 %		65-135	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		87 %		65-135	"	"	"	"	"	"
<b>041918006 (P406541-03) Water Sampled: 06/30/04 11:15 Received: 06/30/04 13:10</b>										
Gasoline Range Organics (C6-C10)	ND	50		ug/l	1	4070125	07/08/04	07/08/04	EPA 8015B/8021	B
Benzene	ND	0.50	"	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene		102 %		65-135	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		90 %		65-135	"	"	"	"	"	"



MACIEC E&C - Petaluma  
5341 Old Redwood Highway, Suite 300  
Petaluma CA, 94954

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
041918005 (P406541-04) Water Sampled: 05/30/04 11:50 Received: 06/30/04 13:10										
Gasoline Range Organics (C6-C10)	18000	1000		ug/l	20	4070125	07/08/04	07/08/04	EPA 8015B/8021	
									B	
Benzene	5700	10	"	"	"	"	"	"	"	
Toluene	1600	10	"	"	"	"	"	"	"	
Ethylbenzene	540	10	"	"	"	"	"	"	"	
Xylenes (total)	1200	10	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100%		65-135	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84%		65-135	"	"	"	"	"	



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

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

**Volatile Organic Compounds by EPA Method 8260B**

**Sequoia Analytical - Petaluma**

Analytic	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
041918003 (P406541-01) Water Sampled: 06/30/04 09:40 Received: 06/30/04 13:10									
Methyl tert-butyl ether	ND	1.0	ug/l	2	4070197	07/13/04	07/13/04	EPA 8260B	
Surrogate: Dibromofluoromethane		100 %	84-122		"	"	"	"	
041918001 (P406541-02) Water Sampled: 06/30/04 10:15 Received: 06/30/04 13:10									
1,2-Dichloroethane	320	250	ug/l	250	4070197	07/13/04	07/13/04	EPA 8260B	
Surrogate: Dibromofluoromethane		104 %	84-122		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		94 %	84-119		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	86-119		"	"	"	"	
041918005 (P406541-04) Water Sampled: 06/30/04 11:50 Received: 06/30/04 13:10									
1,2-Dichloroethane	610	250	ug/l	250	4070227	07/14/04	07/14/04	EPA 8260B	
Surrogate: Dibromofluoromethane		96 %	84-122		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		88 %	84-119		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	86-119		"	"	"	"	

Sequoia Analytical - Petaluma

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

Project: General Commercial  
 Project Number: BPS-City Blue-4097041918.01  
 Project Manager: David Nanstad

P406541  
 Reported:  
 07/23/04 10:48

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

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

**Batch 4070125 - EPA 5030B, waters**

**Blank (4070125-BLK1)**

Prepared & Analyzed: 07/08/04

Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: <i>m,p</i> -Trifluorotoluene	304		"	300		101	65-135			
Surrogate: 4-Bromofluorobenzene	265		"	300		88	65-135			

**Laboratory Control Sample (4070125-B51)**

Prepared & Analyzed: 07/08/04

Gasoline Range Organics (C6-C10)	2840	50	ug/l	2750		103	65-135			
Benzene	41.1	0.50	"	34.0		121	65-135			
Toluene	199	0.50	"	192		104	65-135			
Ethylbenzene	45.8	0.50	"	46.0		100	65-135			
Xylenes (total)	229	0.50	"	222		103	65-135			
Methyl tert-butyl ether	40.9	2.5	"	56.5		72	65-135			
Surrogate: <i>m,p</i> -Trifluorotoluene	354		"	300		118	65-135			
Surrogate: 4-Bromofluorobenzene	283		"	300		94	65-135			

**Matrix Spike (4070125-MS1)**

Source: P406541-01

Prepared & Analyzed: 07/08/04

Gasoline Range Organics (C6-C10)	15200	250	ug/l	13800	2000	96	65-135			
Benzene	269	2.5	"	170	81	111	65-135			
Toluene	969	2.5	"	958	37	97	65-135			
Ethylbenzene	248	2.5	"	230	34	93	65-135			
Xylenes (total)	1110	2.5	"	1110	40	96	65-135			
Methyl tert-butyl ether	206	12	"	282	14	68	65-135			
Surrogate: <i>m,p</i> -Trifluorotoluene	348		"	300		116	65-135			
Surrogate: 4-Bromofluorobenzene	284		"	300		95	65-135			

Sequoia Analytical - Petaluma

*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 E&C - Petaluma  
5341 Old Redwood Highway, Suite 300  
Petaluma CA, 94954

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

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

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

**Batch 4070125 - EPA 5030B, waters**

Matrix Spike Dup (4070125-MSD1)	Source: P406541-01			Prepared & Analyzed: 07/08/04						
Gasoline Range Organics (C6-C10)	15300	250	ug/l	13800	2000	96	65-135	0.7	20	
Benzene	272	2.5	"	170	81	112	65-135	1	20	
Toluene	1010	2.5	"	958	37	102	65-135	4	20	
Ethylbenzene	252	2.5	"	230	34	95	65-135	2	20	
Xylenes (total)	1140	2.5	"	1110	40	99	65-135	3	20	
Methyl tert-butyl ether	246	12	"	282	14	82	65-135	18	20	
Surrogate: 1,1,1-Trifluorotoluene	304		"	300		101	65-135			
Surrogate: 1-Bromofluorobenzene	270		"	300		90	65-135			



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

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nunstad

P406341  
Reported:  
07/23/04 10:48

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

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

**Batch 4070197 - EPA 5030B waters**

Blank (4070197-BLK1)

Prepared & Analyzed: 07/13/04

Acetone	ND	10	ug/l
Benzene	ND	1.0	"
Bromobenzene	ND	1.0	"
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
2-Butanone	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon disulfide	ND	10	"
Carbon tetrachloride	ND	1.0	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	1.0	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	1.0	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"

Sequoia Analytical - Petaluma

*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 E&C - Petaluma  
5341 Old Redwood Highway, Suite 300  
Petaluma CA, 94954

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

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

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

**Batch 4070197 - EPA 5030B waters**

Blank (4070197-BL1C1)

Prepared & Analyzed: 07/13/04

cis-1,3-Dichloropropene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Freon 113	ND	1.0	"							
Hexachlorobutadiene	ND	1.0	"							
2-Hexanone	ND	10	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
4-Methyl-2-pentanone	ND	10	"							
Methyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	20	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	4.58		"	5.00		92	84-122			
Surrogate: Dibromofluoromethane	4.58		"	5.00		92	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.48		"	5.00		90	74-135			

Sequoia Analytical - Petaluma

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

Project: General Commercial  
 Project Number: BPS-City Blue-4097041918.01  
 Project Manager: David Nanstad

P406541  
 Reported:  
 07/23/04 10:48

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

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

**Batch 4070197 - EPA 5030B waters**

**Blank (4070197-BLK1)**

Prepared & Analyzed: 07/13/04

Surrogate: Toluene-d8	4.65		ug/l	5.00		93	84-119			
Surrogate: 4-Bromofluorobenzene	5.06		"	5.00		101	86-119			

**Laboratory Control Sample (4070197-RS1)**

Prepared & Analyzed: 07/13/04

Benzene	1.11	1.0	ug/l	1.00		111	81-118			
Chlorobenzene	1.14	1.0	"	1.00		114	88-119			
1,1-Dichloroethene	1.16	1.0	"	1.00		116	77-121			
Methyl tert-butyl ether	0.951	0.50	"	1.00		95	77-123			
Toluene	1.09	1.0	"	1.00		109	84-119			
Trichloroethene	1.16	1.0	"	1.00		116	83-126			

Surrogate: Dibromofluoromethane	4.66		"	5.00		93	84-122			
Surrogate: Dibromofluoromethane	4.66		"	5.00		93	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.40		"	5.00		88	74-135			
Surrogate: Toluene-d8	4.79		"	5.00		96	84-119			
Surrogate: 4-Bromofluorobenzene	4.94		"	5.00		99	86-119			

**Laboratory Control Sample Dup (4070197-BSD1)**

Prepared & Analyzed: 07/13/04

Benzene	1.18	1.0	ug/l	1.00		118	81-118	6	20	
Chlorobenzene	1.05	1.0	"	1.00		105	88-119	8	20	
1,1-Dichloroethene	1.19	1.0	"	1.00		119	77-121	3	20	
Methyl tert-butyl ether	1.01	0.50	"	1.00		101	77-123	6	20	
Toluene	1.03	1.0	"	1.00		103	84-119	6	20	
Trichloroethene	1.11	1.0	"	1.00		111	83-126	4	20	
Surrogate: Dibromofluoromethane	5.04		"	5.00		101	84-122			
Surrogate: Dibromofluoromethane	5.04		"	5.00		101	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.96		"	5.00		99	74-135			
Surrogate: Toluene-d8	4.87		"	5.00		97	84-119			
Surrogate: 4-Bromofluorobenzene	5.08		"	5.00		102	86-119			



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

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

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

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

Batch 4070227 - EPA 5030B waters

Blank (4070227-BLK1)

Prepared & Analyzed: 07/14/04

Acetone	ND	10	ug/l							
Benzene	ND	1.0	"							
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
2-Butanone	ND	10	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon disulfide	ND	10	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							

Sequoia Analytical - Petaluma

*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.*



MAGTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma CA, 94954	Project: General Commercial Project Number: BPS-City Blue-4097041918.01 Project Manager: David Nanstad	P406541 Reported: 07/23/04 10:48
--	--	--

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

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

**Batch 4070227 - EPA 5030B waters**

**Blank (4070227-BLK1)**

Prepared & Analyzed: 07/14/04

cis-1,3-Dichloropropene	ND	1.0	ng/l							
trans-1,3-Dichloropropene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Freon 113	ND	1.0	"							
Hexachlorobutadiene	ND	1.0	"							
2-Hexanone	ND	10	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
4-Methyl-2-pentanone	ND	10	"							
Methyl tert-butyl ether	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	20	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
S surrogate: Dibromofluoromethane	4.53		"	5.00		91	84-122			
S surrogate: 1,2-Dichloroethane-d4	4.59		"	5.00		92	74-135			
S surrogate: Toluene-d8	4.43		"	5.00		89	84-119			
S surrogate: 4-Bromofluorobenzene	4.76		"	5.00		95	86-119			

Sequoia Analytical - Petaluma

*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.*



<b>MACTEC E&amp;C - Petaluma</b> 5341 Old Redwood Highway, Suite 300 Petaluma CA, 94954	Project: General Commercial Project Number: BPS-City Blue-4097041918.01 Project Manager: David Nanstad	<b>P406541</b> Reported: 07/23/04 10:48
---	--	---

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

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

**Batch 4070227 - EPA 5030B waters**

**Laboratory Control Sample (4070227-BS1)**

Prepared & Analyzed: 07/14/04

Benzene	1.08	1.0	ug/l	1.00		108	81-118			
Chlorobenzene	1.02	1.0	"	1.00		102	88-119			
1,1-Dichloroethene	1.04	1.0	"	1.00		104	77-121			
Toluene	1.19	1.0	"	1.00		119	84-119			
Trichloroethene	1.13	1.0	"	1.00		113	83-126			
Surrogate: Dibromofluoromethane	4.44		"	5.00		89	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.24		"	5.00		85	74-135			
Surrogate: Toluene-d8	4.39		"	5.00		88	84-119			
Surrogate: 4-Bromofluorobenzene	4.67		"	5.00		93	86-119			

**Laboratory Control Sample Dup (4070227-BSD1)**

Prepared & Analyzed: 07/14/04

Benzene	1.11	1.0	ug/l	1.00		111	81-118	3	20	
Chlorobenzene	1.06	1.0	"	1.00		106	88-119	4	20	
1,1-Dichloroethene	1.12	1.0	"	1.00		112	77-121	7	20	
Toluene	1.09	1.0	"	1.00		109	84-119	9	20	
Trichloroethene	1.09	1.0	"	1.00		109	83-126	4	20	
Surrogate: Dibromofluoromethane	4.54		"	5.00		91	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.37		"	5.00		87	74-135			
Surrogate: Toluene-d8	4.44		"	5.00		89	84-119			
Surrogate: 4-Bromofluorobenzene	4.68		"	5.00		94	86-119			





MACTEC B&C - Petaluma  
5341 Old Redwood Highway, Suite 300  
Petaluma CA, 94954

Project: General Commercial  
Project Number: BPS-City Blue-4097041918.01  
Project Manager: David Nanstad

P406541  
Reported:  
07/23/04 10:48

**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



CHAIN OF CUSTODY FORM

Seq. No.: No 10270

Lab: Sequoia

Job Number: 4097041918.01  
Name/Location: BPS - City Blue  
Project Manager: David Hanstad

Samplers: David Browne

Recorder: David Browne  
(Signature Required)

MATRIX				#CONTAINERS & PRESERV.				SAMPLE NUMBER			DATE				STATION DESCRIPTION	
VOID	Soil	Air	Ungpres	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	YR	SEQ	YR	MO	DAY	TIME	DEPTH	STATION DESCRIPTION		
									04	06	30	0940			P406541-01	
									04	06	30	1015			J -02	
X									04	06	30	1115			J -03	
X									04	06	30	1150			J -04	

ANALYSIS REQUESTED												
Gasoline Range Organics 8015B												
Diesel Range Organics 8015B												
BTEX plus MTBE												
CCR Title 22 Metals (17)												
EPA 8021B												
EPA 8260D												
EPA 8270C												
										X	G/B/M	
										X	ethylene Dichloride	

ADDITIONAL INFORMATION			
SAMPLE NUMBER		TURNAROUND TIME/REMARKS	
YR	SEQ		
		TBT	

CHAIN OF CUSTODY RECORD			
Relinquished By: <u>David Browne</u> (Signature)	David Browne (Print Name)	MACTEC (Company)	6/30/04 131 (Date/Time)
Received By: <u>GAIL HERRMANN</u> (Signature)	GAIL HERRMANN (Print Name)	Sequoia (Company)	6/30/04 131 (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)
Relinquished By: _____ (Signature)	_____ (Print Name)	_____ (Company)	_____ (Date/Time)
Received By: _____ (Signature)	_____ (Print Name)	_____ (Company)	_____ (Date/Time)

Method of Shipment:

**APPENDIX B**  
**GROUNDWATER SAMPLING FORM**



**GROUNDWATER SAMPLING FORM**

Job Name: City Blue  
 Job Number: 4097041918  
 Recorded By: David Boone  
(Signature)

Well Number: MW-6  
 Well Type:  Monitor  Extraction  Other  
 PVC  St. Steel  Other  
 Date: 6/30/2004  
 Sampled By: D.S.B  
(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): 22.93  
 No. of Well Volumes to be purged (# V): 3

**PURGE METHOD**  
 Bailor - Type: P.V.C.  
 Submersible - Type:  
 Other - Type: Micro Purge

**PURGE VOLUME CALCULATION**  
 \_\_\_\_\_ ) X \_\_\_\_\_<sup>2</sup> X 3 X 0.0408 = \_\_\_\_\_ gals  
TD (feet) WL (feet) D (inches) #V Calculated Purge Volume

**PUMP INTAKE SETTING**  
 Near Bottom  Near Top  
 Other  
 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		<u>962.45</u>	<u>21.1</u>	<u>36.0</u>
Meter S/N	<u>DP-02</u>	<u>1394</u>	<u>1394</u>	<u>9090</u>

**PURGE TIME**  
 Purge Start: \_\_\_\_\_  
 Purge Stop: \_\_\_\_\_  
 Elapsed: \_\_\_\_\_

**PURGE RATE**  
 GPM: \_\_\_\_\_

**PURGE VOLUME**  
 Volume: \_\_\_\_\_ gallons  
D.O. 1.08 mg/L Redox 104.2 mV  
 Observations During Purging (Well Condition, Color, Odor):  
cloudy gray - odorless  
No stream

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

**WELL SAMPLING**

Bailor - Type: \_\_\_\_\_ Sample Time: 1115

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>041918006</u>	<u>3 VOA's</u>	<u>T.P.H gas (8015 Modified)</u> <u>BTEX (8020)</u> <u>MTBE (8020)</u>	<u>HCL</u>	<u>Sequoia</u>	
↓	↓		↓	↓	

**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: City Blue  
 Job Number: 4097041918  
 Recorded By: David Bourne  
(Signature)

Well Number: MW-5  
 Well Type:  Monitor  Extraction  Other  
 PVC  St. Steel  Other  
 Date: 6/30/2004  
 Sampled By: D.S.B  
(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): 22.0  
 No. of Well Volumes to be purged (# V): 3

**PURGE METHOD**

Bailor - Type: P.V.C.  
 Submersible - Type:  
 Other - Type: Micro purge

**PUMP INTAKE SETTING**

Near Bottom  Near Top  
 Other  
 Depth in feet (BTOC):  
 Screen interval in feet (BTOC): from to

**PURGE VOLUME CALCULATION**

$(\text{TD (feet)} - \text{WL (feet)}) \times \pi \times \frac{D \text{ (inches)}^2}{4} \times 3 \times 0.0408 = \text{Calculated Purge Volume (gallons)}$

**Field Parameter Measurement**

Minutes	pH	Conductivity (µS)	Temp. <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity (NTU)
Initial	6.28	970µS	20.6	31.0
Metric S/N	DB02	1314	1314	9090

**PURGE TIME**      **PURGE RATE**

Purge Start: 1140 GPM  
 Purge Stop: 1150 GPM  
 Elapsed: 10

**PURGE VOLUME**

Volume: \_\_\_\_\_ gallons  
 D.O. 0.51      Redox -164.5  
 Observations During Purging (Well Condition, Color, Odor):

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

**WELL SAMPLING**

Bailor - Type: \_\_\_\_\_ Sample Time: 1150

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>041918005</u>	<u>6VOW's</u>	T.P.H gas (8015 Modified) BTEX (8020) MTBE (8020) Ethylene Dichloride	HCL	Sequela	
↓	↓		↓	↓	

**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: City Blue
Job Number: 4097041918
Recorded By: David Serrano

Well Number: MW-1
Well Type: Monitor, PVC
Date: 6/30/2004
Sampled By: D.S.B.

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): 23.69
No. of Well Volumes to be purged (# V): 3

PURGE METHOD

Boiler - Type: PVC, BSB
Submersible - Type:
Other - Type: Micro Purge

PURGE VOLUME CALCULATION

TD (feet) x WL (feet) x D (inches) x V = Calculated Purge Volume
2 x 33.5 x 2 x 3 x 0.0408 = 16.59 gals

PUMP INTAKE SETTING

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

Field Parameter Measurement

Table with columns: Minutes, pH, Conductivity (µS), Temp (°C/°F), Turbidity (NTU). Initial values: pH 6.60, Conductivity 1006.45, Temp 18.8, Turbidity 14.9

PURGE TIME

Purge Start: 1010
Purge Stop: 1020
Elapsed: 10

PURGE RATE

GPM:
GPM:

PURGE VOLUME

Volume: gallons
D.O. 0.43 mg/L Redox -343.2 mv
Observations During Purging (Well Condition, Color, Odor): light gray slight hydrocarbon odor No smell
Discharge Water Disposal: Sanitary Sewer

WELL SAMPLING

Boiler - Type: Sample Time: 1015

Table with columns: Sample No., Volume/Cont., Analysis Requested, Preservatives, Lab, Comments. Sample 04918001 with analysis for TPH gas, HTEX, MIRE, Ethylene Dichloride.

QUALITY CONTROL SAMPLES

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

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

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



# GROUNDWATER SAMPLING FORM

Job Name: City Blue  
 Job Number: 4097041918  
 Recorded By: David Swann  
(Signature)

Well Number: MW-3  
 Well Type:  Monitor  Extraction  Other  
 PVC  SL Steel  Other  
 Date: 6/30/2004  
 Sampled By: D.S.B  
(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): 23.04  
 No. of Well Volumes to be purged (# V): 3

**PURGE METHOD**  
 Bailor - Type: P.V.C. DSO  
 Submersible - Type: \_\_\_\_\_  
 Other - Type: Micro purge

**PURGE VOLUME CALCULATION**  
 $(\frac{TD}{2}) \times \pi \times D^2 \times 3 \times 0.0408 =$  \_\_\_\_\_ gallons  
TD (feet)    WL (feet)    D (inches)    # V                      Calculated Purge Volume

**PUMP INTAKE SETTING**  
 Near Bottom  Near Top  
 Other  
 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	<u>6.57</u>	<u>725µs</u>	<u>19.7</u>	<u>11.9</u>
Meter S/N	<u>DB03</u>	<u>1394</u>	<u>1354</u>	<u>9090</u>

**PURGE TIME**  
 Purge Start: \_\_\_\_\_  
 Purge Stop: \_\_\_\_\_  
 Flapsed: \_\_\_\_\_

**PURGE RATE**  
 GPM: \_\_\_\_\_

**PURGE VOLUME**  
 Volume: \_\_\_\_\_ gallons  
 D.O. 0.70 mg/l Redox -270.2 mv  
 Observations During Purging (Well Condition, Color, Odor):  
clear, slight hydrocarbon odor  
No sheen

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

## WELL SAMPLING

Bailor - Type: Micro Purge Sample Time: 0940

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>041918003</u>	<u>3 VOA's</u>	<u>T.P.H gas (8015 Modified)</u> <u>BTEX (8020)</u> <u>MTBE (8020)</u>	<u>HCL</u>	<u>Sequoia</u>	
<u>↓</u>	<u>↓</u>		<u>↓</u>	<u>↓</u>	

## QUALITY CONTROL SAMPLES

Duplicate Samples	
Original Sample No.	Dupl. Sample No.

Blank Samples	
Type	Sample No.

Other Samples	
Type	Sample No.



**Harding ESE**  
 A MACTEC COMPANY  
 90 Digital Drive  
 Stovall, CA 94849  
 (415) 883-0112

**CHAIN OF CUSTODY FORM**

Seq. No.: 10270  
 Lab: Sequoia

Job Number: 4097-041918.01  
 Name/Location: BPS - City Blue  
 Project Manager: David Hansted  
 Samplers: David Browne  
 Recorder: David Browne  
(Signature Required)

MATRIX			#CONTAINERS & PRESERV.				SAMPLE NUMBER				DATE			
Water	Soil	Air	Unpres	H2SO4	HNO3	HCL	YR	SEQ	YR	MO	DAY	TIME	DEPTH	
X						3	04	1918003	04	06	30	0940	MW-3	
X						6	04	1918001	04	06	30	1015	MW-3	
X						3	04	1918006	04	06	30	1115	MW-4	
X						6	04	1918005	04	06	30	1150	MW-5	

STATION DESCRIPTION	DEPTH
MW-3	
MW-3	
MW-4	
MW-5	

ANALYSIS REQUESTED											
Gasoline Range Organics 8015B											
Diesel Range Organics 8015B											
BTEX plus MTBE											
COC Title 22 Metals (17)											
EPA 8021B											
EPA 8260B											
EPA 8270C											
EPA 8460A											
EPA 8460B											
EPA 8460C											
EPA 8460D											
EPA 8460E											
EPA 8460F											
EPA 8460G											
EPA 8460H											
EPA 8460I											
EPA 8460J											
EPA 8460K											
EPA 8460L											
EPA 8460M											
EPA 8460N											
EPA 8460O											
EPA 8460P											
EPA 8460Q											
EPA 8460R											
EPA 8460S											
EPA 8460T											
EPA 8460U											
EPA 8460V											
EPA 8460W											
EPA 8460X											
EPA 8460Y											
EPA 8460Z											

ADDITIONAL INFORMATION											
SAMPLE NUMBER						TURNAROUND TIME/REMARKS					
YR	SEQ	YR	MO	DAY	TIME						
						TNT					

CHAIN OF CUSTODY RECORD			
Received By: (signature)	(Print Name)	(Company)	Date/Time
<i>David Browne</i>	David Browne	MACTEC	6/30/04 1310
<i>Chad Hansen</i>	Chad Hansen	Sequoia	6/30/04 1310
Received By: (signature)	(Print Name)	(Company)	Date/Time
Received By: (signature)	(Print Name)	(Company)	Date/Time
Received By: (signature)	(Print Name)	(Company)	Date/Time
Received By: (signature)	(Print Name)	(Company)	Date/Time
Received By: (signature)	(Print Name)	(Company)	Date/Time
Received By: (signature)	(Print Name)	(Company)	Date/Time
Method of Shipment:			



## 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	6/30/09	0912	23.64	23.64	Yes	No	Good	Good	4"	
MW-3	6/30/09	0904	23.04	23.04	Yes	No	Good	Good	4"	
MW-5	6/30/09	0845	22.00	22.00	Yes	No	Good	Good	2"	
MW-6	6/30/09	0820	22.93	22.93	Yes	No	Good	Good	2"	
MW-1A	6/30/09	0910	22.11	22.11	Yes	No	Good	Good	4"	
MW-4	6/30/09	0900	23.58	23.58	No	No	Good	Good	4"	inside building

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

pH: HANNA 9025 serial # 9090 to pH 7.39

Temperature: YSI 30 serial # 1394

Specific Conductance: YSI 30 serial # 1394 1,000 ucs t = 22 C and 95%

Dissolved Oxygen: serial # 0075 to sea level

Turbidity: serial # 9090 Hach

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

Well/Sample Number	Client Sample ID
MW-1	41918001
MW-3	41918003
MW-5	41918005
MW-6	41918006