

June 24, 2010

RECEIVED

11:03 am, Jul 06, 2010

Alameda County Environmental Health

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

RE: Semi-Annual Ground Water Monitoring Report, March 2010

1700 Jefferson Street, Oakland, California

Fuel Leak Case No. RO 151 ERS Project No. 1015-01.00

Dear Mr. Blain:

Environmental Risk Specialties Corporation (ERS) has enclosed one hard copy of the Semi-Annual Ground Water Monitoring Report, March 2010 for 1700 Jefferson Street, Oakland, California. ERS will also upload the Report along with monitor well sampling and analytical data to the Regional Water Quality Control Board's GeoTracker database.

If you have any questions regarding this report or the findings of the work, please contact me at (925) 938-1600, extension 102 or email me at smichelson@erscorp.us.

Sincerely,

Steven Michelson, PG Principal Geologist

cc: Ms. Barbara Jakub, Alameda County Health Care Services Agency

Enclosure

SEMI-ANNUAL GROUND WATER MONITORING REPORT MARCH 2010

BPS REPROGRAPHICS 1700 Jefferson Street Oakland, California

June 2010











Environmental Risk Specialties Corporation

SEMI-ANNUAL GROUND WATER MONITORING REPORT MARCH 2010

1700 Jefferson Street Oakland, California

Prepared for:

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

Prepared by:

Environmental Risk Specialties Corporation Walnut Creek, California

June 24, 2010

Reviewed By:

Steven Michelson, PG Principal Geologist



TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	BACKGROUND	1
2.1	Subsurface Conditions	2
3.0	GROUND WATER MONITORING AND SAMPLING	2
3.1	Ground water Monitoring	2
3.2	Ground Water Gradient	
3.3	Ground water Sampling	3
4.0	RESULTS OF GROUND WATER SAMPLING	
5.0	DISCUSSION	4
6.0	CONCLUSIONS	5
7.0	RECOMMENDATIONS	5

LIST OF TABLES

- Table 1 Extraction Well Sample Analytical Results
- Table 2 Ground Water Elevations
- Table 3 Ground Water Gradient and Flow Direction
- Table 4 Ground Water Analytical Results

LIST OF CHARTS

- Chart 1 Concentrations of TPHg vs. Time in MW-1, MW-3, and MW-5
- Chart 2 Concentrations of Benzene vs. Time in MW-1, MW-3, and MW-5

LIST OF FIGURES

- Figure 1 Location Map
- Figure 2 Site Plan
- Figure 3 Gradient Contour Map

JUNE 2010 PAGE || CYC

Figure 4 - TPHg Iso-Concentration Contour Map

Figure 5 - Benzene Iso-Concentration Contour Map

LIST OF APPENDICES

Appendix A – Monitor Well Worksheets

Appendix B - Laboratory Analytical Reports



1.0 INTRODUCTION

This March 2010 Ground Water Monitoring Report was prepared by Environmental Risk Specialties Corporation (ERS) on behalf of BPS Reprographic Services. This Report describes ground water monitoring work performed at 1700 Jefferson Street, Oakland, California (Site). The project objectives were to purge and sample four existing ground water monitor wells, measure the depth to ground water in all existing wells in order to calculate ground water gradient and flow direction, evaluate analytical results, and report the findings.

2.0 BACKGROUND

The Site is located on the northeast corner of the intersection of Jefferson Street and 17th Street in Oakland, California. The Site is a former gas station that had two 1,000 gallon gasoline underground storage tanks (USTs) and one 550 gallon waste oil UST. On February 20, 1987, three borings (Borings 1 through 3) were advanced for a geotechnical investigation. Two additional borings (Borings 4 and 5) were advanced near the former USTs. Contamination was found in soil down to the water table. On June 16, 1987, three gasoline USTs were removed from the Site and a suspected unauthorized release was confirmed. The product lines and dispensers were removed, overexcavated, and backfilled without confirmation sampling. Soil was excavated to approximately 9.5 feet, which was the maximum reach of the excavation equipment. The soil was stockpiled and then spread out for aeration. The excavation was subsequently backfilled on August 5 and 6, 1987 with the aerated soil.

Three ground water monitor wells were installed in June 1987 (MW-1 to MW-3) and well MW-1 initially contained 30 inches of free-phase floating product (free product). Well MW-2 was subsequently destroyed on November 9, 1987 when the current building was constructed. On August 12, 1987, Boring 6 was advanced in order to investigate soil permeability. In January 1988, ground water extraction wells MW-1A and MW-4 were installed to specifically remove free product. In August 1988, offsite well MW-5 was installed.

Free product was removed from well MW-1 on a daily basis yielding an estimated 2,300 gallons of free product from September 1987 to March 1991. Harding Lawson Associates (HLA) constructed a ground water extraction and treatment system in June 1992 and by July 1999 removed an additional 867 gallons of free product. In April 1996, HLA installed well MW-6, and in March 1998, HLA advanced five Cone Penetrometer Test (CPT) borings both south of the Site and north of well MW-5. In April 1998, HLA

JUNE 2010 PAGE 1

determined that free product was comprised of leaded gasoline. Measurable thickness free product has not been observed in the wells since 1999.

In 1999, MACTEC installed oxygen release compound (ORC®) socks in wells MW-1A, MW-3, MW-4, and MW-5. The ORC® socks were removed at the request of ACHCSA in 2002.

Quarterly ground water monitoring of wells MW-1, MW-3, MW-5, and MW-6 has been conducted since January 1994. Ground water extraction wells MW-1A and MW-4 were periodically sampled from August 1991 to June 1999.

All monitor wells were previously surveyed on the City of Oakland datum, which has been found to have a discrepancy of -5.7 feet from NAVD88, the standard national datum. On April 15, 2010, all monitor wells were resurveyed by Muir Consulting of Oakdale, California to Geotracker specifications on the NAVD88 datum. Extraction well water sample analytical results are summarized in Table 1. Ground water elevation data are summarized in Table 2, gradient data are summarized in Table 3, and analytical data are summarized in Table 4.

2.1 Subsurface Conditions

Boring logs indicate that silty sand and clayey sand are present from the surface to a depth of approximately 27.0 to 30.5 feet below ground surface (bgs). Sand was reported in well MW-4 from approximately 27.0 to 30.5 feet bgs. These soils are underlain by stiff to very stiff, saturated silty clays to the maximum explored depth of 33.0 feet bgs. Ground water was encountered at approximately 25.0 feet bgs.

3.0 GROUND WATER MONITORING AND SAMPLING

Ground water monitoring and sampling of the Site was performed on March 3, 2010 by ERS personnel. Work at the Site included measuring depth to water, subjectively evaluating the possible presence of petroleum in ground water in the wells, purging and sampling the wells using EPA approved low-flow techniques, and submitting the samples to a state-certified laboratory for analysis of constituents of concern.

3.1 Ground water Monitoring

Before ground water purging and sampling, the depth to the water table was measured from the top of each well casing using an electronic water level meter. The water level

JUNE 2010 PAGE 2

measurements were recorded to the nearest 0.01 foot with respect to mean sea level (MSL). Field sheets of recently recorded ground water monitoring data are included in Appendix A. Information regarding well elevations and depth to ground water at the Site is summarized in Table 2.

3.2 Ground Water Gradient

Ground water elevation contours based on ground water elevations measured on March 3, 2010, are illustrated on Figure 3 and reveal a ground water flow direction to the southwest at an average gradient of 0.002 foot per foot. Historical ground water gradients and flow directions are summarized in Table 3.

3.3 Ground Water Sampling

Before ground water sampling, each well was purged using EPA approved low-flow techniques summarized in the "Low-Flow (Minimal Drawdown) Ground Water Sampling Procedures" (EPA, 1996). Dedicated tubing, attached to a peristaltic pump, was lowered to the mid-point of the reported screen zone. The pump was set to a rate of less than 1 liter per minute and pH, dissolved oxygen (DO), specific conductance (SC), oxidation reduction potential (ORP), depth to water (DTW) and temperature were measured in three to five minute intervals within a flow-through cell. When depth to water remained constant and parameters were stabilized to within ±10% in consecutive readings, the pump rate was reduced, the tube was disconnected from the flow-through cell and samples were collected directly from the dedicated tubing. Ground water conditions monitored during purging and sampling were recorded on field sheets, included in Appendix A.

From each monitor well, four laboratory-supplied 40-milliliter sample vials were filled with ground water to overflowing and sealed to eliminate trapped air. Once filled, sample vials were inverted and tapped to test for air bubbles. Sample containers were labeled with self adhesive tags. The samples were stored in a pre-chilled, insulated container and returned to ERS's Walnut Creek office. The samples were transported to AccuTest, a state-certified analytical laboratory, following standard COC protocols for the requested analyses.

Water purged during the development and sampling of the monitor wells is being temporarily stored onsite in a 55-gallon drum pending laboratory analysis and proper disposal.

4.0 RESULTS OF GROUND WATER SAMPLING

Ground water samples collected from wells MW-1, MW-3, MW-5, and MW-6 were analyzed for gasoline-range petroleum hydrocarbons (TPHg), benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8260B. Copies of the chain of custody record and laboratory analytical reports are included as Appendix B. TPHg, BTEX, and MTBE analytical results are summarized in Table 4.

5.0 DISCUSSION

The available data collected at 1700 Jefferson Street indicates that ground water has been affected by the activities that occurred there historically. Ground water use as a potential drinking source in this area is highly unlikely due to site location and the high quality public drinking water supplied by EBMUD. In Table 4, the concentrations of petroleum hydrocarbons in the ground water are compared with the Environmental Screening Levels (ESLs) for ground water that is not a potential drinking water source published in 2008 by the San Francisco Bay Regional Water Quality Control Board (RWQCB-SF).

Chart 1 depicts the trend of TPHg in the monitor wells MW-1, MW-3, and MW-5 over time. Recent sampling reveals that concentrations of TPHg in the monitor wells MW-1 and MW-3 have increased since the previous sampling event while the concentration of TPHg in MW-5 has decreased since the previous sampling event. Chart 2 depicts the trend of benzene in the monitor wells MW-1, MW-3, and MW-5 over time. Concentrations of benzene have increased in MW-1 and MW-3 in the most recent sampling event while concentrations of benzene have decreased in MW-5 with the most recent sampling event. The most downgradient well, MW-6, did not contain TPHg, BTEX, or MTBE above the reporting limit; this is consistent with prior results. Figures 4 and 5 depict the distribution of TPHg and benzene in ground water.

Based on the data, it appears that a source may still be present on the site in the former UST excavation area that causes the fluctuations in TPHg concentrations in onside monitor wells. However, since 1996, MW-6 has consistently had concentrations far below screening criteria. This is an indication that although concentrations have increased recently, the plume is stable.

6.0 CONCLUSIONS

Based on the results of ground water monitoring performed at 1700 Jefferson Street:

- Ground water flow direction is to the southwest at an average gradient of 0.002 foot per foot and continues to be consistent with historical trends and regional topography;
- Silty sand and clayey sand are present from the surface to a depth of approximately 27.0 to 30.5 feet below ground surface;
- Concentrations of TPHg and benzene increased in wells MW-1 and MW-3 and have decreased in MW-5;
- Consistent with recent trends, no detectable TPHg and BTEX concentrations were reported in downgradient well MW-6.
- Although concentrations have increased recently, the plume appears stable.

7.0 RECOMMENDATIONS

Based on current ground water monitoring results and observations made during Site investigations, ERS recommends the following:

• Continue future ground water sampling in monitor wells MW1, MW-3, MW-5, and MW-6 on a semi-annual basis.

The next tentatively scheduled ground water monitoring event is September 3, 2010.



TABLES

Table 1 EXTRACTION WELL SAMPLE ANALYTICAL RESULTS

	1700	Jefferso						.10
Well ID	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Free Product
				(µg/L)			(inches)
	9/12/1988							28.2
	7/12/1989	220,000	1,200	9,210	3,100	24000	NA	18.6
	8/1/1991	350,000	17,000	31,000	3,000	FP	NA	FP
	7/2/1992	FP	FP	FP	FP	FP	NA	18
	9/30/1992	FP	FP	FP	FP	FP	NA	10 - 13
	2/12/1993	FP	FP	FP	FP	FP	NA	13
	3/30/1993	FP	FP	FP	FP	FP	NA	10.2-14.8
	1/6/1994	FP	FP	FP	FP	14,000	NA	16.2
	4/13/1994	170,000	17,000	31,000	2,100	22,000	NA	12 4.5+/-
	6/29/1994 12/8/1994	95,000 190,000	16,000 13,000	21,000 21,000	1,500 1,400	12,000 11,000	NA NA	4.5+/-
	4/3/1995	67,000	11,000	13,000	910	9,800	NA	
	6/27/1995	53,000	11,000	9,900	500	6,300	NA	
	9/19/1995	52,000	8,900	11,000	790	5,300	NA	
MW-1A	12/13/1995	62,000	9,900	9,200	710	6,800	NA	
	3/6/1996	200,000	14,000	22,000	2,700	22,000	NA	
	6/11/1996	140,000	18,000	28,000	2,800	19,000	NA	
	9/19/1996	100,000	16,000	22,000	2,100	14,000	NA	
	12/23/1996	FP	FP	FP	FP	FP	NA	
	3/27/1997	66,000	12,000			100	1,800	
	6/4/1997	54,000	11,000	12,000	1,000	7,200	<500	
	9/26/1997	73,000	10,000	16,000	1,400	8,500	<500	
	12/23/1997	66,000	10,000	16,000	1,400	12,000	1,900	
	3/31/1998	51,000	9,100	11,000	1,100	6,800	300	
	6/18/1998	50,000	11,000	15,000	870	5,800	<50	
	8/28/1998 12/2/1998	15,000	1,100 8,500	830 11,000	31 720	3,000 6,700	<50 <50	
	3/10/1999	41,000 10,000		1,900			<50	
	6/30/1999	18,000	6,400	7,800	660	4,100	<25	
	9/12/1988							5.9
	7/12/1989	93,000	460	4,200	1,200	9700	NA	25.2
	8/1/1991	86,000	1,500	6,200	1,000	FP	NA	18
	9/30/1992	FP	FP	FP	FP	FP	NA	FP
	2/12/1993	FP	FP	FP	FP	FP	NA	8.8
	1/6/1994	FP	FP	FP	FP	3,200	NA	6.2
	4/13/1994	58,000	1,500	2,500	520	7,300	NA	
MW-4	6/29/1994	16,000	1,300	790	51	3,400	NA	
	12/8/1994	92,000	1,700	4,100	310	5,400	NA	
	4/3/1995	35,000	1,200	3,400	280	5,800	NA	
	6/27/1995 9/19/1995	13,000 14,000	1,300 630	1,600 470	77 14	1,800 1,800	NA NA	
	12/13/1995	11,000	2,200	2,100	110	2,100	NA	
	3/6/1996	110,000	2,600	3,600	780	10,000	NA	
	6/11/1996	260,000	6,600	19,000	3,700	28,000	NA	
	9/19/1996	95,000	9,900	19,000	2,000	13,000	NA	
	12/23/1996	FP	FP	FP	FP	FP	NA	FP
	3/27/1997	37,000	2,600	6,900	540	5,500	1,400	
	6/4/1997	24,000	2,600	3,200	140	3,500	<300	
	9/26/1997	41,000	2,900	5,000	350	4,800	<500	
MW-4	12/23/1997	48,000	6,000	11,000	580	8,200	270	
	6/18/1998	25,000	2,000	460	<15	6,400	<50	
	8/28/1998	48,000	9,700	11,000	890	5,000	<50	
	12/2/1998	10,000	1,700	610	<15	2,300	<50	
	3/10/1999	11,000	2,300	2,100	88 150	1,600	<25	
	6/30/1999	88,000	1,800	3,000	150	2,700	<25	

Notes:

μg/L: micrograms per liter (approximately equivalent to ppb) <: Concentration is below the reporting limit of the lab

- J: Estimated value
- --: not applicable or none
- FP: Free product measured (amount unknown)

Page 1 of 1 ERS Corp

Table 2 GROUND WATER ELEVATIONS 1700 Jefferson Street, Oakland, California

•	1700	Jefferson Street, C	akland, California	_
Well ID	Date Measured	Well Elevation* (feet above MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet bgs)
	7/8/1987	31.44	25.75	5.69
	7/12/1989	31.44	26	5.44
L			available from 1990 to 19	95
	3/6/1996	32.36	NS	
F	6/11/1996 9/19/1996	32.36 32.36	FP FP	
F	12/23/1996	32.36	FP FP	
F	3/27/1997	32.36	FP	
	6/4/1997	32.36	26.41	5.95
	9/26/1997	32.36	26.8	5.56
-	12/22/1997	32.36	26	6.36
	3/31/1998	32.36	26.06	6.3
-	6/18/1998 8/28/1998	32.36 32.36	25.6 25.45	6.76 6.91
-	12/2/1998	32.36	24.92	7.44
-	3/10/1999	32.36	24.9	7.46
	6/30/1999	32.36	25.53	6.83
	9/29/1999	32.36	24.23	8.13
L	11/22/1999	32.36	24.33	8.03
	2/11/2000	32.36	24.38	7.98
	5/30/2000	32.36 32.36	23.57	8.79
-	9/15/2000 11/16/2000	32.36	23.85 24.14	8.51 8.22
F	4/2/2001	32.36	23.4	8.96
T T	6/28/2001	32.36	23.58	8.78
F	8/30/2001	32.36	24	8.36
	12/26/2001	32.36	24.18	8.18
NAV. 3	4/23/2002	32.36	NA	
MW-1	6/14/2002	32.36	23.41	8.95
	8/20/2002	32.36	23.85	8.51
-	12/27/2002 4/1/2003	32.36 32.36	24.1 23.75	8.26 8.61
F	7/1/2003	32.36	23.75	8.86
F	9/24/2003	32.36	23.82	8.54
F	12/29/2003	32.36	24.07	8.29
	5/18/2004	32.36	23.64	8.72
	6/30/2004	32.36	23.64	8.72
	9/23/2004	32.36	23.98	8.38
-	12/28/2004	32.36	24.07	8.29
-	3/16/2005 6/23/2005	32.36 32.36	23.8 22.9	8.56 9.46
-	9/9/2005	32.36	23.27	9.09
-	12/2/2005	32.36	23.75	8.61
	3/24/2006	32.36	23.05	9.31
	6/29/2006	32.36	22.56	9.8
L	9/13/2006	32.36	23	9.36
F	12/27/2006	32.36	23.47	8.89
	3/30/2007	32.36 32.36	23.51	8.85 8.97
F	7/2/2007 10/2/2007	32.36	23.39 23.87	8.49
F	12/13/2007	32.36	24.05	8.31
F	3/26/2008	32.36	23.56	8.8
	6/2/2008	32.36	23.7	8.66
	9/10/2008	32.36	24.07	8.29
<u> </u>	3/3/2009	32.36	24.31	8.05
	9/3/2009	32.36	24.16	8.2
MW-1A	3/3/2010	36.81 35.25	23.99	12.82 12.83
	7/8/1987	31.77	25.5	6.27
F	7/12/1989	31.77	24.44	7.33
			available from 1990 to 19	•
-	3/6/1996	31.77	24.79	6.98
	6/11/1996	31.77	25.6	6.17
	9/19/1996	31.77	26.09	5.68
Γ	12/23/1996	31.77	FP	
Ī	3/27/1997	31.77	FP	
F	6/4/1997	31.77	25.11	6.66
F	9/26/1997	31.77	25.41	6.36
MW-3	12/22/1997	31.77	24.91	6.86
F	3/31/1998	31.77	24.05	7.72
-				
L	6/18/1998	31.77	23.71	8.06
<u> </u>	8/28/1998	31.77	23.7	8.07
_	12/2/1998	31.77	23.6	8.17
	3/10/1999	31.77	22.65	9.12
	6/30/1999	31.77	23.07	8.7
	9/29/1999	31.77	23.03	8.74
J				
-	11/22/1999	31.77	23.68	8.09

Page 1 of 3 ERS Corp

Table 2 GROUND WATER ELEVATIONS 1700 Jefferson Street, Oakland, California

	1700	Jefferson Street, C	Dakland, California	1
Well ID	Date Measured	Well Elevation* (feet above MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet bgs)
	5/30/2000	31.77	22.97	8.8
	9/15/2000	31.77	23.12	8.65
	11/16/2000	31.77	23.4	8.37
	4/2/2001	31.77	23.4	8.37
	6/28/2001	31.77	23.17	8.6
	8/30/2001	31.77	23.35	7.42
	12/26/2001 4/23/2002	31.77 31.77	23.54 22.89	8.23 8.88
ŀ	6/14/2002	31.77	22.85	8.92
	8/20/2002	31.77	23.11	8.66
ŀ	12/27/2002	31.77	23.34	8.43
Ì	4/1/2003	31.77	22.9	8.87
Ī	7/1/2003	31.77	22.8	8.97
Ī	9/24/2003	31.77	23.15	8.62
	12/29/2003	31.77	23.45	8.32
-	5/18/2004	31.77	22.98	8.79
MW-3	6/30/2004 9/23/2004	31.77 31.77	23.04	8.73 8.45
ŀ	12/28/2004	31.77	28.71	3.062
[3/16/2005	31.77	23.7	8.07
	6/23/2005	31.77	22.4	9.37
-	9/9/2005 12/2/2005	31.77 31.77	22.63 23.06	9.14 8.74
ţ	3/24/2006	31.77	22.57	9.2
	6/29/2006	31.77	23.91	9.84
	9/13/2006	31.77 31.77	22.35 22.82	9.42 8.95
ŀ	12/27/2006 3/30/2007	31.77	22.82	8.86
į	7/2/2007	31.77	22.88	8.89
	10/2/2007	31.77	23.2	8.57
-	12/13/2007 3/26/2008	31.77 31.77	23.4	8.37 8.77
ŀ	6/2/2008	31.77	23.08	8.69
Į	9/10/2008	31.77	23.55	8.22
	3/3/2009	31.77	23.78	7.99
}	9/3/2009 3/3/2010	31.77 36.23	23.55 23.45	8.22 12.78
MW-4	3/3/2010	36.77	23.87	12.9
	7/12/1989	29.22	24.91	4.31
Į			available from 1990 to 19	7
}	3/6/1996	30.56	23.53	7.03
}	6/11/1996	30.56	23.78	6.78
	9/19/1996	30.56	24.48	6.08
	12/23/1996	30.56	24.83	5.73
}	3/27/1997 6/4/1997	30.56	23.82	6.74 6.64
}	9/26/1997	30.56	24.29	6.27
-	12/22/1997	30.56	24.02	6.54
ŀ	3/31/1998	30.56	22.78	7.78
ŀ	6/18/1998	30.56	22.51	8.05
ŀ	8/28/1998	30.56	22.74	7.82
	12/2/1998	30.56	23.16	7.4
ŀ	3/10/1999	30.56	22.82	7.74
ŀ	6/30/1999	30.56	22.41	8.15
	9/29/1999	30.56	22.81	7.75
MW-5	11/22/1999	30.56	22.88	7.68
	2/11/2000	30.56	22.74	7.82
ļ	5/30/2000	30.56	21.73	8.83
}	9/15/2000	30.56	22.14	8.42
}	11/16/2000 4/2/2001	30.56 30.56	22.39 22.07	8.17 8.49
ŀ	6/28/2001	30.56	22.07	8.41
ļ	8/30/2001	30.56	22.35	8.21
}	12/26/2001	30.56 30.56	22.49	8.07 9.49
}	4/23/2002 6/14/2002	30.56 30.56	21.07 21.8	9.49 8.76
ļ	8/20/2002	30.56	22.14	8.42
Ī	12/27/2002	30.56	NA ¹	NA ¹
	4/1/2003	30.56	NA ¹	NA ¹
	7/1/2003	30.56	NA ¹	NA ¹
}	9/24/2003	30.56	22.21	8.35
}	12/29/2003 5/18/2004	30.56 30.56	22.56 21.85	8 8.71
}	6/30/2004	30.56	22	8.56
	9/23/2004	30.56	22.36	8.2
	12/28/2004	30.56	22.42	8.14

Page 2 of 3 ERS Corp

Table 2 GROUND WATER ELEVATIONS 1700 Jefferson Street, Oakland, California

1700 Jefferson Street, Oakland, California									
Well ID	Date Measured	Well Elevation* (feet above MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet bgs)					
	3/16/2005	30.56	22.11	8.45					
	6/23/2005	30.56	21.2	9.36					
	9/9/2005	30.56	21.68	8.88					
	12/2/2005	30.56	22.19	8.37					
-	3/24/2006	30.56	21.01	9.55					
-	6/29/2006 9/13/2006	30.56 30.56	20.78 21.35	9.78 9.21					
-	12/27/2006	30.56	21.82	8.74					
N 4\\ A / E	3/30/2007	30.56	21.7	8.86					
MW-5	7/2/2007	30.56	21.81	8.75					
	10/2/2007	30.56	22.22	8.34					
	12/13/2007	30.56	22.31	8.25					
-	3/26/2008 6/2/2008	30.56 30.56	21.77 22.04	8.79 8.52					
-	9/10/2008	30.56	22.52	8.04					
-	3/3/2009	30.56	22.51	8.05					
-	9/3/2009	30.56	22.36	8.2					
	3/3/2010	35.21	22.14	13.07					
	3/6/1996	31.26	NA						
	6/11/1996	31.26	25.16	6.1					
-	9/19/1996	31.26	25.76	5.5					
-	12/23/1996 3/27/1997	31.26 31.26	25.88 24.78	5.38 6.48					
F	6/4/1997	31.26	24.76	6.66					
F	9/26/1997	31.26	24.8	6.46					
Ī	12/22/1997	31.26	24.71	6.55					
	3/31/1998	31.26	23.75	7.51					
	6/18/1998	31.26	23.22	8.04					
-	8/28/1998	31.26	22.23	9.03					
-	12/2/1998	31.26	23.72	7.54					
-	3/10/1999 6/30/1999	31.26 31.26	23.54 23.04	7.72 8.22					
-	9/29/1999	31.26	23.42	7.84					
-	11/22/1999	31.26	23.64	7.62					
	2/11/2000	31.26	23.67	7.59					
	5/30/2000	31.26	22.82	8.44					
	9/15/2000	31.26	23.1	8.16					
-	11/16/2000	31.26	23.41	7.85					
-	4/2/2001 6/28/2001	31.26 31.26	23.33 23.15	7.93 8.11					
-	8/30/2001	31.26	23.35	7.91					
F	12/26/2001	31.26	23.27	7.99					
	4/23/2002	31.26	22.89	8.37					
MW-6	6/14/2002	31.26	22.81	8.45					
	8/20/2002	31.26	23.15	8.11					
-	12/27/2002	31.26	23.41	7.85					
	4/1/2003 7/1/2003	31.26 31.26	23.16 22.75	8.1 8.51					
}	9/24/2003	31.26	23.16	8.1					
F	12/29/2003	31.26	23.47	7.79					
ľ	5/18/2004	31.26	22.87	8.39					
	6/30/2004	31.26	22.43	8.83					
	9/23/2004	31.26	23.3	7.96					
-	12/28/2004	31.26	23.42	7.84					
}	3/16/2005 6/23/2005	31.26 31.26	23.6	7.66 8.99					
}	9/9/2005	31.26	22.55	8.71					
F	12/2/2005	31.26	23.05	8.21					
ļ	3/24/2006	31.26	22.5	8.76					
	6/29/2006	31.26	21.85	9.41					
	9/13/2006	31.26	22.31	8.95					
<u> </u>	12/27/2006	31.26	22.85	8.41					
-	3/30/2007	31.26	22.88	8.38					
}	7/2/2007 10/2/2007	31.26 31.26	22.75 23.17	8.51 8.09					
}	12/13/2007	31.26	23.37	7.89					
-	3/26/2008	31.26	22.97	8.29					
	6/2/2008	31.26	23.07	8.19					
	3/3/2009	31.26	22.51	7.51					
	9/3/2009	35.91	23.49	12.42					

Notes:

Well elevations prior to 2010 are in City of Oakland Datum; After 2010, all elevations are in NAVD 88 Datum.

NS: Not Sampled

FP: Free Product

NA: Not Available

MSL: Mean sea level

Page 3 of 3 ERS Corp

^{*:} Well elevation measured to top of casing

bgs: below ground surface

^{1 :} Data not available due to ORC socks in well

²: Data not available due to probable equipment malfunction or operator error

Table 3 GROUNDWATER GRADIENT AND FLOW DIRECTION 1700 Jefferson Street, Oakland, California

	Reported	Reported
Date Monitored	Gradient	Direction
6/11/1996	0.003	SW
6/4/1997	0.009	NW
3/31/1998	0.002	W
8/28/1998	0.007	Е
12/2/1998	0.006	NW
3/10/1999	0.011	NW
9/29/1999	0.004	NW
2/11/2000	0.001	NW
5/30/2000	0.003	W
11/16/2000	0.044	W
4/2/2001	0.001	SW
6/28/2001	0.005	SW
8/30/2001	0.004	SW
4/23/2002	0.006	W-SW
6/14/2002	0.004	W- SW
8/20/2002	0.005	W- SW
12/27/2002	0.005	W- SW
4/1/2003	0.007	W- SW
7/1/2003	0.006	W-NW
9/24/2003	0.005	W-NW
12/29/2003	0.003	W-NW
5/18/2004	0.006	W
6/30/2004	0.002	N
9/23/2004	0.005	W
12/28/2004	0.0451	SE ¹
3/16/2005	0.01	SW
6/23/2005	0.005	W
9/9/2005	0.005	W
12/2/2005	0.006	NW
3/24/2006	0.006	NW
9/13/2006	0.005	W-NW
12/13/2007	0.004	W-NW
3/26/2008	0.004	W
6/2/2008	0.004	W
9/10/2008	0.005	W
3/3/2009	0.004	W
9/3/2009	0.003	W-NW
3/3/2010	0.002	SW

Notes:

Page 1 of 1 ERS Corp.

¹ MACTEC reported an error in groundwater measurement

Table 4
GROUND WATER ANALYTICAL RESULTS
1700 Jefferson Street Oakland California

	1700 Jefferson Street, Oakland, California									
Well ID	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Free Product		
			<u>u</u>	(µg/l	L)			(inches)		
	ESLS	210	46	130	43	100	1800			
	7/8/1987	190,000	18,000	26,000		3,700		30		
	9/12/1988							25		
	7/12/1989	190,000	1,000	8,900	2,900	19,000		21.6		
	8/1/1991							12		
	6/18/1992 7/2/1992							34 18		
	7/23/1992							10		
	8/18/1992							10		
	11/11/1992							13		
	1/29/1993							25.2		
	2/12/1993							10.2		
	1/6/1994							14.8		
	3/17/1994							23.4		
	4/13/1994 6/29/1994							12 0		
	12/8/1994							FP		
	4/3/1995							FP		
	6/27/1995		-	-				FP		
	9/19/1995							FP		
	12/13/1995							FP		
	3/6/1996 6/11/1996							FP FP		
	9/19/1996							FP		
	12/23/1996							FP		
	3/27/1997		-	-	-			FP		
	6/4/1997	68,000	2,200	4,500	1,500	11,000	<500			
	9/26/1997	59,000	6,000	3,000	1,600	8,600	<500			
	12/23/1997	41,000	6,800	3,000	1,400	6,600	300			
	3/31/1998 6/18/1998	44,000 32,000	8,300 1,100	3,700 3,800	1,100 550	4,300 3,000	420 <50			
	8/28/1998	26,000	8,600	2,300	730	2,100	<50			
	12/2/1998	26,000	9,200	4,300	820	2,800	<50			
	3/10/1999	26,000	8,200	5,900	870	3,500	<50			
	6/30/1999	18,000	7,000	5,800	950	2,500	<25			
	9/29/1999	21,000	9,200	10,000	1,200	5,500	<250			
	9/29/1999 11/22/1999	14,000	6,200 4,900	5,900	620 730	3,500	<250 <100			
MW-1	2/11/2000	24,000 19,000	4,100	5,000 4,800	530	3,500 2,800	7			
10100	5/30/2000	19,000	5,700	8,400	730	3,500	<5.0			
	9/15/2000	20,000	4,100	5,700	540	2,700	<12			
	11/16/2000	18,000	3,500	4,300	640	3,200	<40			
	4/2/2001	19,000	4,700	5,200	570	2,600	50			
	6/28/2001	39,000	5,200	4,200	660	3,900	9			
	8/30/2001 12/26/2001	31,000 34,000	5,600 5,300	5,100 5,200	560 630	2,500 2,400	<100 <120			
	4/24/2002	35,000	4,900	6,000	740	3,100	<120			
	6/14/2002	35,000	5,400	6,800	870	3,500	<250			
	8/20/2002	26,000	4,100	4,700	620	2,700	<120			
	12/27/2002	28,000	4,500	5,000	660	3,000	<120			
	4/1/2003	16,000	4,500	6,000	680	3,100	<120			
	7/1/2003 9/25/2003	61,000 59,000	7,700 7,600	11,000 9,400	1,200 1,000	6,700 4,800	<250 <1,200			
	12/29/2003	46,000	6,600	7,900	960	4,000	<250			
	5/18/2004	23,000	4,100	4,700	450	1,500	<50			
	6/30/2004	24,000	3,500	3,600	390	1,300	<50			
	9/23/2004	24,000	3,800	3,900	470	1,400	<25			
	12/28/2004	22,000	3,400	3,400	380	1,400	<250			
	3/16/2005 6/23/2005	21,000 30,000	4,100 5,400	4,200 5,500	470 520	1,300 1,900	<50 <1,200			
	9/9/2005	7,100	840	950	120	410	<120			
	12/2/2005	19,000	3,600	3,500	410	1,300	<2.5			
	3/24/2006	29,000	6,200	6,000	620	2,000	<500			
	6/29/2006	23,000	4,800	4,000	330	1,200	<500			
	9/13/2006	20,000	4,500	3,900	400	1,400	<250			
	12/27/2006 3/30/2007	31,000 30,000	6,000 5,000	5,300 4,600	710 520	2,500 1,700	<500 <500			
	7/2/2007	14,000	2,500	2,000	280	930	<500			
	10/2/2007	19,000	3,400	2,700	400	1,200	<500			
	12/13/2007	18,000	3,500	2,700	390	1,100	<500			
	3/26/2008	28,000	4,900	4,900	530	2,100	<500			
	6/2/2008	20,000	3,300	3,300	380	1,700	<500			
	9/10/2008	24,000	4,200 5,380	4,200 5,380	470	2,200	<500 <100			
	3/3/2009 9/3/2009	33,100 35,900	5,380	5,380 5,180	603 620	2,800 3,270	<100 <100			
	3/3/2010	51,700	10,100	8,050	952	4,560	<200			
NAVA C	7/8/1987	8,200	1,500	340		87				
MW-2	11/9/1987		-		DESTRO		-			
MW-3	7/8/1987	6,200	180	500		170		0		

Page 1 of 4 ERS Corp.

Table 4
GROUND WATER ANALYTICAL RESULTS
1700 Jefferson Street Oakland California

1700 Jefferson Street, Oakland, California										
Well ID	Date Sampled	ТРНд	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Free Product		
				(110/	1			(inches)		
	TCI C	210	47	(µg/l		100	1000	(inches)		
	ESLS 7/12/1989	210 13000	46 4	130 160	43 210	100 420	1800			
	8/1/1991	74,000	1,600	4,600	670	4,300		0 4		
	9/30/1992							4.1		
	11/11/1992							2		
	1/29/1993							1.7		
	2/12/1993							1.3		
	1/6/1994							2.2		
	3/17/1994							2.4		
	4/13/1994					4000		1.8		
	6/29/1994 12/8/1994	39000 4600000	3200 1500	2900 4200	580 6000	4300 95000		0.5		
	4/3/1995	51000	1100	2300	580	4800				
	6/27/1995	20000	270	550	190	1700				
	9/19/1995	6200	70	140	68	500				
	12/13/1995	19000	220	480	140	1700				
	3/6/1996	7000	120	170	49	440				
	6/11/1996	16000	170	270	68	1500				
	9/19/1996	6000	45	30	15	300				
	6/4/1997	85000	8500	13000	2400	16000	<500			
	9/26/1997	47000	610	6000	930	5900	<100			
	12/23/1997	32000	640	5300	800	5900	<300			
	3/31/1998 6/18/1998	32000 16000	690 180	3800 1500	870 490	5200 3700	350 <25			
	8/28/1998	17000	84	1100	430	3800	<50			
	12/2/1998	3,200	39	85	25	360	<50			
	3/10/1999	9,600	86	540	250	2,300	<25			
	6/30/1999	7,900	31	330	200	1,800	<25			
	9/29/1999	5,000	120	340	230	1,300	10			
	9/29/1999	4,100	180	340	130	580	14			
	11/22/1999	3,100	7	33	27	260	<1.0			
	2/11/2000	540	8	20	2	28	31			
	5/30/2000	490	11	6	0	17	<5.0			
	9/15/2000 11/16/2000	1,500 1,300	28 20	14 34	3 25	160 28	<5.0 <5.0			
MW-3	4/2/2001	170	9	6	1	8	77			
	6/28/2001	4,900	150	240	38	160	<2			
	8/30/2001	3,100	42	48	26	210	<1.2			
	12/26/2001	950	8	5	1	7	<0.5			
	4/24/2002	300	11	5	1	1	<0.5			
	6/14/2002	4,600	130	470	91	390	<0.5			
	8/20/2002	4,900	330	170	40	150	<5.0			
	12/27/2002	4,000	110	280	57	260	19			
	4/1/2003 7/1/2003	5,900 12,000	370 200	150 460	44 130	230 390	<1.0 <5.0			
	9/25/2003	10,000	150	300	120	280	<2.5			
	12/29/2003	7,300	160	250	79	210	<2.5			
	5/18/2004	1,500	77	72	19	59	<12			
	6/30/2004	2,000	81	37	34	40	<1.0			
	9/23/2004	3,400	140	95	36	40	<10			
	12/28/2004	3,900	340	37	11	60	<5.0			
	3/16/2005	970	1 56	2 7	1	3 12	<2.5			
	6/23/2005 9/9/2005	850 3,900	56 470	100	<5 33	96	<25 <62			
	12/2/2005	760	14	8	2	17	<0.5			
	3/24/2006	590	83	41	7	33	<12			
	6/29/2006	1,100	130	38	16	21	<25			
	9/13/2006	1,300	260	71	44	28	<25			
	12/27/2006	3,000	250	160	49	140	<25			
	3/30/2007	3,100	250	260	46	110	<25			
	7/2/2007	2,600	250	250	54	130	<25			
	10/2/2007 12/13/2007	1,900 2,900	170 250	140 170	24 66	48 120	<25 <25			
	3/26/2008	2,300	340	95	26	64	<25			
	6/2/2008	2,300	270	250	59	130	<25			
	9/10/2008	2,900	300	180	88	220	<25			
	3/3/2009	3,020	37	10	3.8J	12.3J	<10			
	9/3/2009	538	59	1	13	2	<1.0			
	3/3/2010	1,570	98	12	20	14	<1.0	 0 E		
	9/12/1988 7/12/1989	14,000	7	190	210	500		0.5 0.4		
	8/1/1991	120,000	20,000	14,000	1,900	4,900		0.4		
	9/30/1992	51,000	13,000	5,900	1,400	2,600		0		
	3/30/1993	74,000	16,000	5,000	1,800	2,700		0.06		
MW-5	1/6/1994	80,000	19,000	8,200	1,400	2,700		0		
	4/13/1994	63,000	14,000	3,500	1,500	2,100		0		
	6/29/1994	64,000	29,000	5,400	2,800	4,500		0		
	12/8/1994	59000	13000	3800	1800	2900				
	4/3/1995	51,000	15,000	2,200	2,800	4,500				
	6/27/1995	41000	12000	2100	1400	1600				

Page 2 of 4 ERS Corp.

Table 4
GROUND WATER ANALYTICAL RESULTS
1700 Jefferson Street, Oakland, California

	1700	Jefferson	Street	, Oakla	nd, Ca	lifornia	a	
Well ID	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Free Product
				/!	\			('
	ESLS	210	46	(µg/l 130	L) 43	100	1800	(inches)
	9/19/1995	50000	1600	2700	2000	2100	1800	
	12/13/1995	45000	13000	2100	16000	1900		
	3/6/1996	51000	15000	2800	2000	2400		
	6/11/1996	48000	12000	2900	2000	2700		
	9/19/1996 12/23/1996	48000 45000	12000 12000	4500 2200	2300 2700	4000 6500	600	
	3/27/1997	44000	11000	1100	1900	2800	300	
	6/4/1997	35000	8900	560	1500	1700	<100	
	9/26/1997	36000	7900	270	1500	1300	<500	
	12/23/1997 3/31/1998	39000 48000	13000 10000	500 400	1900 2000	1700 2200	<1,000 350	
	6/18/1998	17000	9500	310	420	850	<10	
	8/28/1998	16000	5400	160	1100	900	<50	
	12/2/1998	15000	8400	120	1500	840	<50	
	3/10/1999 6/30/1999	23000 7700	14000 5200	300 270	1800 1100	1100 690	<50 <25	
	9/29/1999	11000	9600	710	1100	1100	<100	
	9/29/1999	10000	14000	470	1100	600	<100	
	11/22/1999	30000	11000	3400	1500	2500	<100	
	2/11/2000	23000	12000	4500	1200	1300	6.6	
	5/30/2000 9/15/2000	19000 24,000	9900 3,800	6900 3,000	1200 460	2600 1,200	<200 <10	
	11/16/2000	1,800	470	220	39	100	<5	
	4/2/2001	15,000	7,400	3,000	1,000	2,200	<50	
	6/28/2001	3,600	300	11	16	15 2,600	4	
	8/30/2001 12/26/2001	34,000 1,900	8,300 300	3,000 110	1,400 55	120	<50 <10	
MW-5	4/24/2002	9,400	2,300	130	300	270	<50	
	6/14/2002	1,700	110	<2.5	7	<2.5	<0.50	
	8/20/2002 12/27/2002	3,200	320	9 140	22 160	19 250	<0.50 <25	
	9/25/2003	6,200 43,000	2,200 12,000	2,800	1,500	3,000	<1,200	
	12/29/2003	26,000	7,700	1,900	910	210	<2.5	
	5/18/2004	15,000	5,000	1,300	380	770	<50	
	6/30/2004 9/23/2004	18,000 42,000	5,700 12,000	1,600 3,900	540 1,200	1,200 2,400	<50 <120	
	12/28/2004	41,000	10,000	3,800	1,000	2,300	<250	
	3/16/2005	37,000	11,000	3,800	1,100	2,400	<120	
	6/23/2005	27,000	7,700	1,700	680	1,300	<1,200	
	9/9/2005 12/2/2005	46,000 21,000	10,000 5,900	2,700 1,500	1,100 600	2,100 1,200	<1,200 <500	
	3/24/2006	<10,000	2,800	450	190	180	<500	
	6/29/2006	1,200	240	11	13	18	<2.5	
	9/13/2006	5,800	1,600	210	180	270	<120	
	12/27/2006 3/30/2007	16,000 31,000	4,300 10,000	610 1,400	460 1,100	750 1,600	<500 <500	
	7/2/2007	33,000	9,400	1,400	1,000	1,500	<500	
	10/2/2007	36,000	11,000	2,100	1,100	1,700	<620	
	12/13/2007	34,000	11,000	2,600	1,200	1,900	<1,200	
	3/26/2008 6/2/2008	28,000 43,000	7,700 13,000	1,900 3,800	860 1,400	1,300 2,400	<1,200 <1,200	
	9/10/2008	45,000	13,000	3,700	1,200	2,200	<1,200	
	3/3/2009	43,400	11,700	3,560	1,290	2,200	<250	
	9/3/2009 3/3/2010	35,900 27,200	8,800 6,820	1,240 279	1,720 1,870	2,420 2,050	<100 <100	
	6/11/1996	<50	< 0.5	< 0.5	< 0.5	<2	< 100	
	9/19/1996	<50	<0.5	<0.5	<0.5	<2		
	12/23/1996	<50	<0.5	<0.5	<0.5	<2	<5 .r	
	3/27/1997 6/4/1997	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<2 <2	<5 <5	
	9/26/1997	<50	<0.5	<0.5	<0.5	<2	<5	
	12/23/1997	<50	<0.5	<0.5	<0.5	<2	<5	
	3/31/1998	<50	<0.5	<0.5	<0.5	<2	<5	
	6/18/1998 8/28/1998	<50 <50	<0.3	<0.3	<0.3	<0.6	<1.0 <1.0	
	12/2/1998	<50	<0.3	<0.3	<0.3	<0.6	<1.0	
MW-6	3/10/1999	<50	<0.3	<0.3	<0.3	<0.6	<1.0	
	6/30/1999 9/29/1999	<50 <50	<0.3	<0.3	<0.3	<0.6	<1.0 <1.0	
	9/29/1999	<50 <50	<0.3	<0.3	<0.3	<0.6	<1.0	
	11/22/1999	<50	<0.3	<0.3	< 0.3	<0.6	<1.0	
	2/11/2000	<50	<0.3	<0.3	<0.3	<0.6	<1.0	
	5/30/2000 9/15/2000	<50 <50	<0.3	<0.3	<0.3	<0.6	<1.0 <1.0	
	11/16/2000	<50 <50	<0.3	<0.3	<0.3	<0.6	<1.0	
	4/2/2001	<50	<0.3	<0.3	< 0.3	2.7	5	
	6/28/2001	<50	<0.5	<0.5	<0.3	< 0.5	17	
	8/30/2001 12/26/2001	<50 66	<0.5 3.6	<0.5 3.6	<0.3	8.7 <0.5	<2.5 <2.5	
	. <i> </i>	UU	5.0	5.0	5.0	٠٥.٥	`L.U]

Page 3 of 4 ERS Corp.

Table 4 GROUND WATER ANALYTICAL RESULTS 1700 Jefferson Street, Oakland, California

1700 Jefferson Street, Oakland, California								
Well ID	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Free Product
				(µg/l	L)			(inches)
	ESLS	210	46	130	43	100	1800	
	4/24/2002	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	6/14/2002	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	8/20/2002	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	12/27/2002	<50	< 0.5	< 0.05	< 0.5	< 0.5	<2.5	
	4/1/2003	<50	< 0.5	< 0.05	< 0.5	< 0.5	<2.5	
	7/1/2003	<50	< 0.5	< 0.05	< 0.5	<2.5	<2.5	
	9/25/2003	<50	< 0.5	< 0.05	< 0.5	<2.5	<2.5	
	12/29/2003	<50	< 0.5	< 0.05	< 0.5	< 0.5	<2.5	
	5/18/2004	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	6/30/2004	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	9/23/2004	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	12/28/2004	59	< 0.5	< 0.5	< 0.5	2	<2.5	
	3/16/2005	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	6/23/2005	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
MW-6	9/9/2005	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
IVIVV-O	12/2/2005	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	3/24/2006	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	6/29/2006	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	9/13/2006	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	12/27/2006	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	3/30/2007	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	7/2/2007	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	
	10/2/2007	<50	<0.5	< 0.5	< 0.5	< 0.5	<2.5	
	12/13/2007	<50	<0.5	1	< 0.5	< 0.5	<2.5	
	3/26/2008	<50	<0.5	< 0.5	< 0.5	1	<2.5	
	6/2/2008	<50	<0.5	< 0.5	< 0.5	< 0.5	<2.5	
	9/10/2008	<51	<0.5	< 0.5	< 0.5	< 0.5	<2.6	
	3/3/2009	<50	<1.0	0.53J	<1.0	<2.0	<1.0	
	9/3/2009	<50	<1.0	<1.0	<1.0	<2.0	<1.0	
	3/3/2010	<50	<1.0	<1.0	<1.0	<2.0	<1.0	

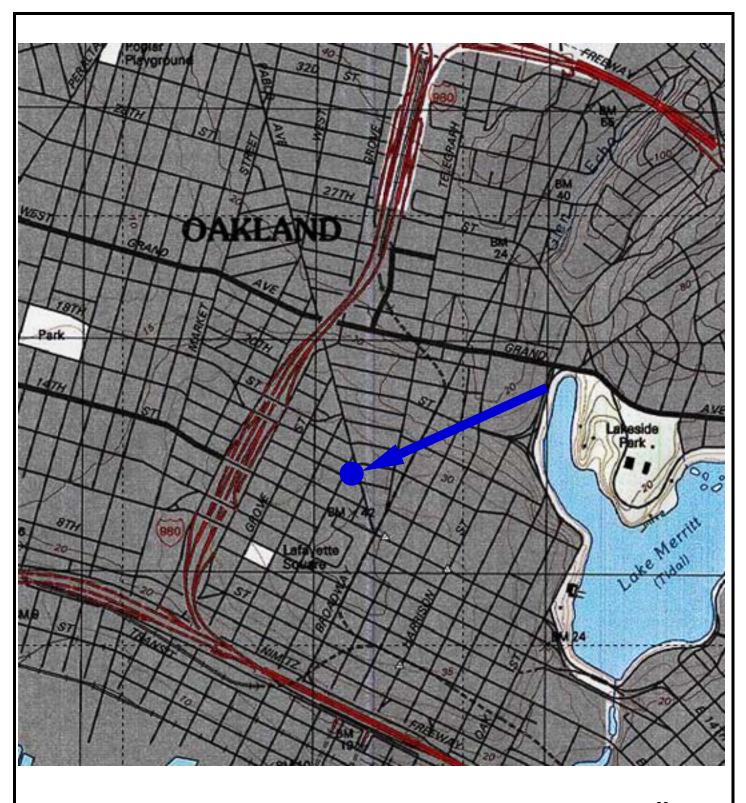
Notes:

- $\mu g/L\colon$ micrograms per liter (approximately equivalent to ppb)
 - <: Concentration is below the reporting limit of the lab
 - J: Estimated value
 - --: not applicable or none
- ESLs: Environmental Screening Levels May 2008
 - FP: Free product measured (amount unknown)

Concentration is above selected screening criteria

Page 4 of 4 ERS Corp.

FIGURES

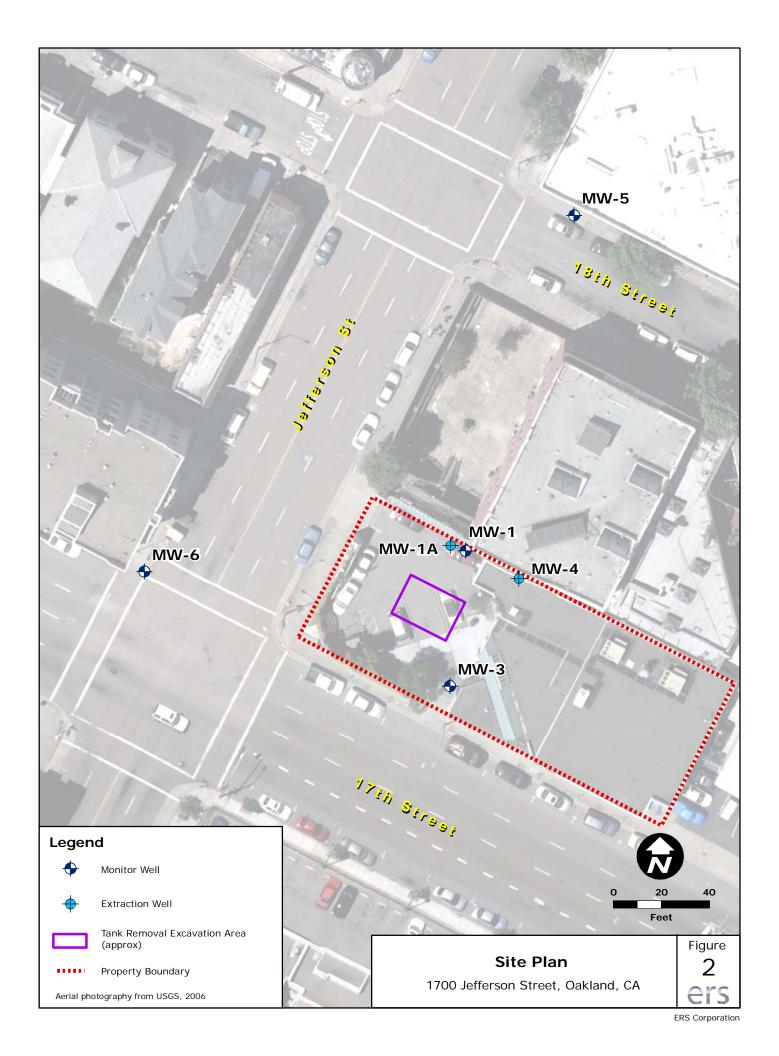


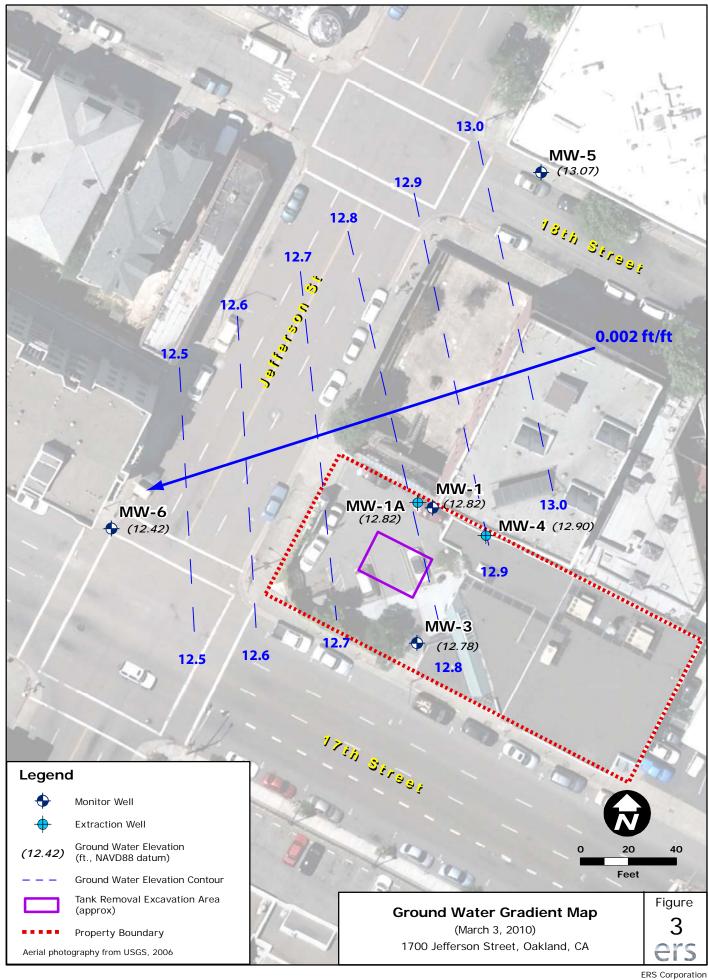


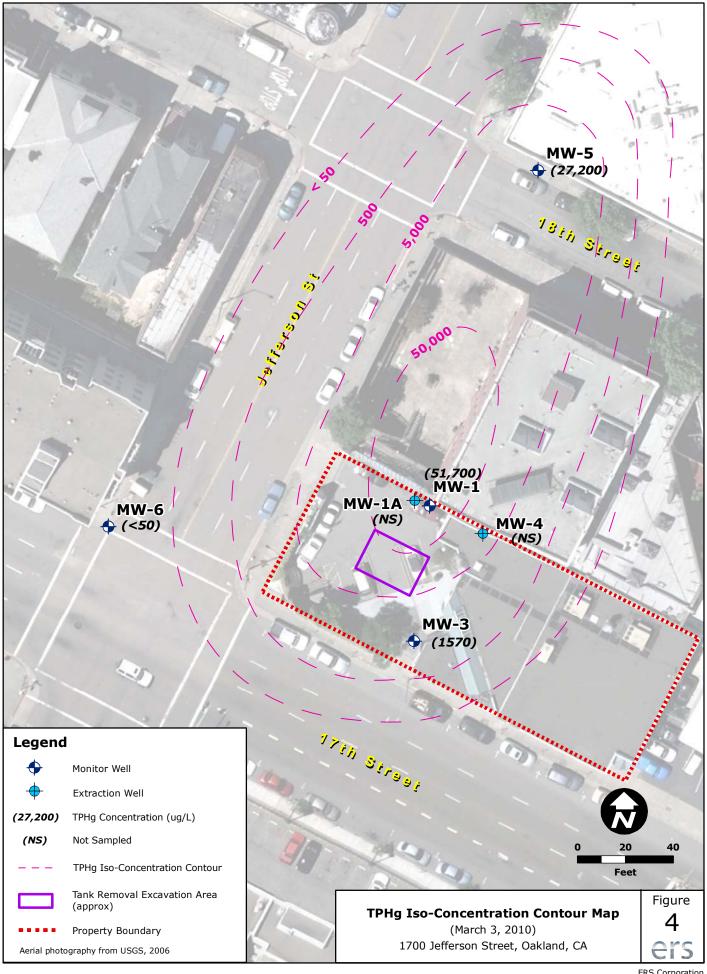
Location Map 1700 Jefferson Street Oakland, California

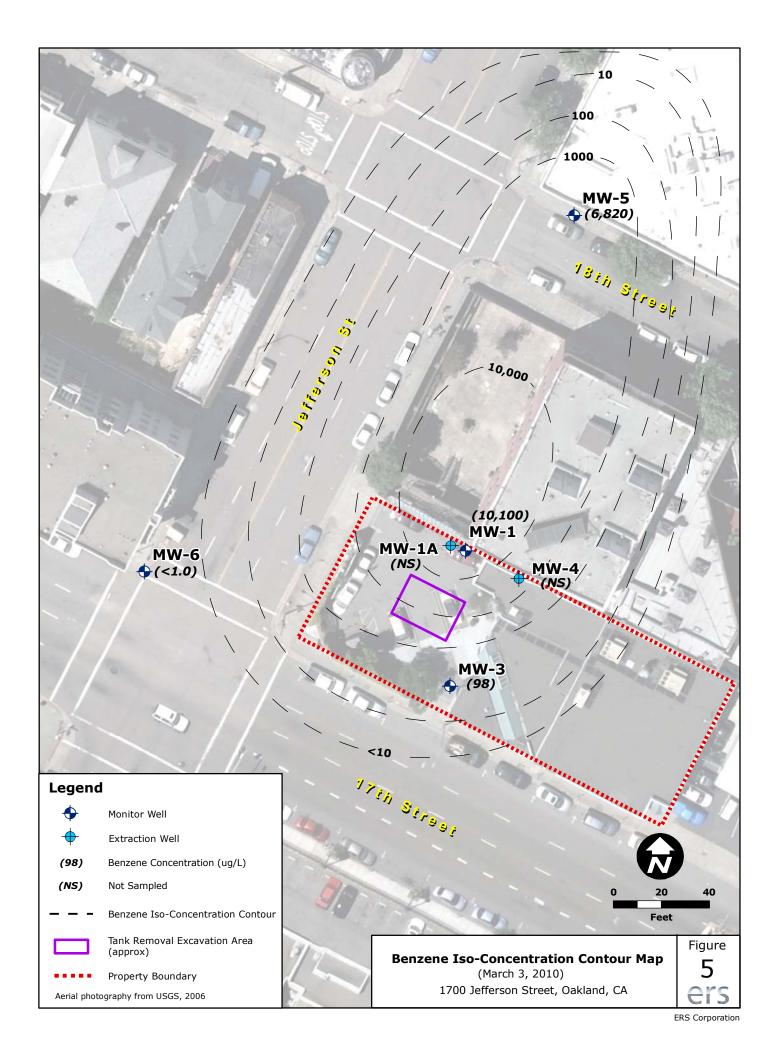
Source: National Geographic TOPO!

Figure 1









APPENDIX A

SITE VISIT REPORT

Project Name: 1700 Tefferson	Site ID: BPS	Date: 3/3/19
Location: Oakland	Client: BPS .	Day of Week: Wed
Site Personnel:	Weather: post-rain	-
	V	
Purpose of Site Visit: Samic	- Annual un	ontoring
	·	<u> </u>
Tailgate Meeting notes:		
- look	for evidence	of removed
UST wear M	W-5	<u> </u>
Communication of Authorities	:/- 0 02	(n. 11) 0000)
Summary of Activities:	ite @ 0930	(peparted 0900)
- Cauged 6 1	vells, samples	a 7 wells.
Off-site (a)	1000 0 1800	<u> </u>
Ketures t	office Q 1800	
	-	•
,		-
Drum Talley Empty:	Water: Soil:	
Remaining Drum Space: 2/3	(i40 gal)	
Equipment and Materials Used:	I mater, perip	ump, 15I556
truck, camer	a	
1		
Signature	Affiliation	
fogu faith	-ERS	Continued on other side?
1		

DQM Calibration and Accura	Event		
Project ID 1700 Teff		Page of	
·	Record 1	Record 2	Record 3
Instrument ID	YSI 556		
Instrument Type (adjustable or non-adjustable)			,
Characteristic (Parameter)	of, SC, DO)	
Unit	5. W. 1/4 140, 1/		
Date of Calibration or Accuracy Check	3/3/10		
Time of Calibration or Accuracy Check	1000		
Reason for Calibration or Accuracy Check (Pre-event, Post-event, Routine, new instrument)	pre-event		
Temperature (C) at Calibration or Accuracy Check (not applicable for temperature checks)	11.38°C		
Thermometer ID (not applicable for temperature checks)			
Standard Material (enter Standard ID, or NIST thermometer ID, or 'saturated water, or 'distilled water ice beth', etc.)			

"True" value of Standard Material [see on the label] or natural point

Reading in Standard Material (non-adjustable instruments) or Reading in

second (6,549

third

90%.

Standard Material before

instruments only)

name) Comments

Calibration (adjustable instruments)

Reading after calibration (adjustable

Cal/AccurCheck Operator (your

Action taken (cal, none, or nap) (adjustable instruments only)

If you calibrate in air and can measure the absolute barometric pressure, write the value and unit here _____; otherwise please indicate your elevation above sea level _____.

first

third

second

first

third

second

Depth to Water Data Sheet													
Site Name:	00 1	Date: 3/3/10											
Location:	ak (ar	Field Tech:	ITL										
Client: BPS	·												
Well ID	Well Diameter	Time	DTW	Total Depth	Comments								
MW-1	4"		23.99										
MW-1A	4"	0943	22.42 and		<u> </u>								
MW-2	distribution of the second	-ab		one (
MW-3	4"	0944	23,45										
MW-4	у"	0939	23.87		-								
MW-5	2"	0950	23.87 22.14 23.43										
MW-6	2"	1005	23.43										
, * * * * * * * * * * * * * * * * * * *													
		·											
Notes:				1111 201111111									

27.87

	1-1CX														
Site Name:	16000	Teffe	Son		Well/Sample ID: MW-										
Location:	Oak	land.	CA	Initial Depth to Water (DTW): 23.99											
Client:	BPS			Total Well Depth (TD):											
Sampler:	LTL			Well Diameter (inches): リ //											
Date:	3/3/10			12.000	Did Well Dew	ater? \sqrt{a}	9								
	ple Method:		1 tul	Purge Rate (li	ters/min): C	7.25									
Casing Volum	ne (liters):		1	Sample Rate (liters/min): O. Z											
2" well x 1 foo	ot = 0.6L		r	4" well x 1 foot = 2.4L											
Time	рН	sc	DO	Temp	ORP	DTW	Cumulative Volume	Notes							
hh:mm	SU	µmhos/cm	mg/l	°C	m∨	feet bgs	liters								
140	6,57	1383	0.97	17.66	25.7	24.15	1								
1114	6.60	1388	0.92	17.76	25.7 15.5	24.15	2	-							
1118	6.62	1389	0.83	17.77	7.2	24.15	3	- Material Control							
1121	6.63	1388	0.80	17.83	24	24.15	3,75								
1124	6.63	1388	0.79	17.85	0.1	24.15	3.4.5								
								•							
Total Liters P	urged: 4,	5	Start Purge T	ime: 1 D	6 DTW prior to sample (ft): 24, 15										
Total Sample	Volume: /	60ml	Stop Purge T	ime: 112	Y Start Sample Time: 1/24										
Turbidity:	very 6	low	Color: N	one	Odor: Ues										
Length of Tul	oing (ft)		Sheen: ~	L Ø	Product: No										
Instrument ID): VS	5I 5S	6		Last Calibrate	ed: 3/3/	100	1000							
Notes:															
						`		-							
					-										
				, , , , , , , , , , , , , , , , , , ,											
-	COPPET.		10		- AB-18-AV-T										
And the state of t															

Site Name:	1700	Tellerso	M	Well/Sample ID: Mw-3										
Location:	Dokla	nd c	A	Initial Depth to	Water (DTW)	: 23.45	>							
Client:	BPS	1	(-	Total Well Depth (TD):										
Sampler:	TL			Well Diameter (inches): 나 "										
Date: 3	13/10	*****		Did Well Dew	ater? No	•								
Purge & Samp	ole Method:	Peri w	I ded.	fulling	Purge Rate (li	ters/min):	9,25							
Casing Volum	w.e			Sample Rate (liters/min): 0, 2_										
2" well x 1 foo	t = 0.6L	I		4" well x 1 foot = 2.4L Cumulative Notes										
Time	рН	SC	DO	Temp	ORP	DTW	Notes							
hh:mm	SU	µmhos/cm	mg/l	°C	mV	feet bgs	liters							
1048	6.53	764	0,89	18.82	90.2	-23.70								
1052	6.53	765	0.83	18.89	72.2	23.78	2							
1056	6.53	766	0.80	19.01	58.5	23.80	3							
1059	6.53	766	0.79	19.01	91.1	23.80	3.75							
1														
					Mara M									
				:				11 1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
								-						
								^W8						
Total Liters Po	urged: 3,	75	Start Purge T	ime: 104	Y DTW prior to sample (ft): 23.80									
Total Sample		OML	Stop Purge Ti	` '	· · · · · · · · · · · · · · · · · · ·	Start Sample	Start Sample Time: 1059							
Turbidity:	1/ens	low	Color: V	one	•	Odor: slight								
Length of Tub		<u> </u>	Sheen: $ u$	one		Product: L	rone							
Instrument ID	: Y5#	556			Last Calibrate	d: 3/3/	100	1000						
Notes:	/						<u></u>							
Was to All Parkets						•								
				A11_000	W									

Site Name:	1700	Seller	SPA	Well/Sample ID: MW-5										
Location: (Dak-la	nd, C	A	Initial Depth to	Water (DTW)	: 22.14								
Client:	3PS	7		Total Well Depth (TD):										
Sampler:	ITL			Well Diameter (inches): 2 "										
Date:	3/3/10			Did Well Dew	ater?	10								
Purge & Samp	ole Method:	Peri	w/tul	bing	Purge Rate (li	ters/min):	0,25							
Casing Volum		The state of the Public State of State		Sample Rate (liters/min): O. Z										
2" well x 1 foo	t = 0.6L			1	4" well x 1 foot = 2.4L									
Time	рН	sc	DO	Temp	ORP	DTW	Cumulative Volume	Notes						
hh:mm	SU	µmhos/cm	mg/l	°C	mV	feet bgs	liters							
1144	6,80	1090	0.75	18.94	-10.7	22.25								
1148	6.79	1088	0.71	18.87	-15.1	22.25	2	- ALLON AND AND AND AND AND AND AND AND AND AN						
1152	6,78	1084	0.73	18.81	-17,8	22.25	3							
1155	6.76	1081	0.73	18.81	-18,4	22.25	3,75							
	, , ,	·												
								. :						
								:						
							•							
Total Liters Pเ	urged: 7,	75	Start Purge Ti	ime: //C	10 DTW prior to sample (ft): 22,25									
Total Sample	Volume:	60ml	Stop Purge Ti	ime: //5	5	Start Sample Time: //55								
Turbidity:	1. clea	1	Color:	hoh	٩	Odor: (ses,	strong						
Length of Tub	ing (ft)		Sheen:		Product: None									
Instrument ID:	YSI	556			Last Calibrate	d: 3/3	/10 (0000						
Notes:			· 											
						•								
		,				***								
• • • • • • • • • • • • • • • • • • • •	m.		1											
								· ·						

Site Name:	1700	Jeller	Son	Well/Sample ID: MW-6										
Location:	Oaklo	Teffer	CA		Initial Depth to	Water (DTW)	23.4	3						
Client:	BPS	,		Total Well Depth (TD):										
Sampler:	LTL			Well Diameter (inches): 2"										
Date: 3	13/10			Did Well Dewater?										
Purge & Sam	ple Method:	Pali u	y/tul	Purge Rate (liters/min): 0, 25										
Casing Volun	ne (liters):	,	(Sample Rate (liters/min): O . 2_										
2" well x 1 foo	ot = 0.6L		<u> </u>	4" well x 1 foot = 2.4L										
Time	рН	sc	DO	Temp	ORP	DTW	Cumulative Volume	Notes						
hh:mm	SU	µmhos/cm	mg/l	°C	mV	feet bgs	liters	-110**						
1014	6.55	1082	1.40		278.2		1							
1018	6.47	1052	1.39	19.36	278.9	23.57	2							
1022	6.48	1040	1.49	19.33	277,7	23.57	3							
1025	6.50	1041	1.58	19.43	275.4	23.57	3.75							
1028	6.51	1041	1.50	19.56	274.3	23.57	4.5							
								MATERIAL .						
				- Add No The Ti										
	-													
			<u> </u>											
								AAAWAT a						
Total Liters F	Purged: 4	.5	Start Purge T	ime: Lol	O DTW prior to sample (ft): 23.57									
Total Sample	Volume: 16	oul	Stop Purge T	ime: (02	Start Sample Time: (028									
Turbidity:	very &	low	Color:	nohe	Odor: NEDLE									
Length of Tu		• "	Sheen:	none	Mayor.	Product:	none							
Instrument I): YS=	r 556			Last Calibrate	ed: 3/3/16	· @ 10	000						
Notes:														
						•								
	3 No. 10						W-0.7	MARKET .						
	L 100777													
			*******				1,10,000	ALL HE T						
		٠.												



CHAIN OF CUSTODY

Bottle Order Control #

2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480 FED-EX Tracking #

Laboratories									Accutest Quote # Accutest Job #														
Client / Reporting Information	ékéstallásbanhandáiú	tometriner/ineti	n rokanika nerviya dikar	innum Proje	ect Infor	mation	F.	ana establishe	660acketsesk	Sinta displanta	tintaciesasi	Sittle Victoria	STREET,			January I		200110	sted Ar	alveie	(1900) Sal		Matrix Codes
Company Name TIP C	TREASURE CONTROLLERS	0.0000000000000000000000000000000000000	280470521000007				F	19424 0 9494/94	SASET GEGENOACT	05555009au	STROKE COURSE	NEEDS OF PERSON	Jacobskomo maig	□	503JB040300JI 274580A	(egunnous)		10900	1	diyoto	Ga1009.5	CASCAL PILLY GOODS SOCKES	DW- Drinking Water
Address 1600 Riviera AVE. Dity Walnut Crek CA Project Contact: Bayram ybayram Phone # (925) 938-1600 Samplers's Name 1000 2011 111 900	<u> </u>	0	Project Na Street	ame: B	75	- 00	~							PPL 🗆 STARS 🗅 MTBE 🗅 15 🗀	-SS								GW- Ground Water WW- Water
State State	#5	Zip	City	+00	<u> </u>	ett	<u>e</u>	State	$\frac{\pi}{2}$					TARS	STA	260							SW- Surface Water SO- Seil
Walnut Creek CA	445	96	Drainet #)ak	an	-2		<u></u>	-A				602 [] [] NAP	PL 08	O PPL O STARSD PAHO +TCSO	82							StSludge Ot-Oil
Yola Bayran ybayran	Perso	ري بهم	Fax#			20	/	101	~				8021 🗆 60:	TCL [3] PP +10 [3] +15	L D P)							LIQ- Other Liquid
(925) 438-1600			(C):4 P	(425 rchase Order	<u>) 9</u>	<u> کلا</u>		61	\mathcal{O}_{-}				l 🗆 ,,,,`	TC +10	TCL BND	9	0						AIR- Air
1,09an cinae	rung	<u>~_</u>			#							41	624 MTBE	8260 🗆 624 🗆 TBA 🗅 NAP	8270 II 625 II ABNII AEII	P H							SOL-Other Solid
Accutest	SUMMA# [Collecti	on		#of	\Box	nber o		П				00 A		1			ļ				WP-Wipe
	MEOH Vial#		Time	Sampled by	1	bottles		NaOH HNO	H2S04	NONE	NaHSO-	N. S.	8260 , BTEX	828 TB,	827 AB	,					\perp		LAB USE ONLY
	3	3/3/10		UTL	$-\omega$	4	X		ļ				X			K							
MW-3			1059		}		X					_	X			X							
MW-5			455				X					<u> </u>	X			X							
MW-6		J	(028	يل ا	1	مك	X						×			X							
,																							
																							,
Tumaround Time (Business days)	er gervinerrein er		die Gerad			liverable	Inform		district.	esoviir.	106618 <u>6</u> 01	\$\$\$\$\$\$\$\$		7.500.00	907 A 150 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151 (151	(895)\$/(\$35)				/ Remark		W65W8	
X Std. 15 Business Days 10 Day RUSH	Approved By:	/ Date:		X Comn	nercial "A nercial "E		믐	FULL	CLP P Cate	egory .	A			11	'eas	le 1	20	Va	de	6	20[ral	ker EDF
5 Day RUSH			_	NJ Re	duced				P Cate						100	0 1	4n-						
3 Day EMERGENCY 2 Day EMERGENCY			_	NJ Fu Other			닖		Forms Forma					121	cyu	^		_					
1 Day EMERGENCY			_	L Outer		_			1 9111111			-											
Other			_	Comme	ercial "A'	' = Resul	ts On	dy															
Emergency T/A data available VIA Lablin				<u> </u>										L					oonsinnoisse	00.00000000000000000000000000000000000	nychowinesy!	49000 (18000) (1800	
Relinquished by Sampler		Date Time:	ntea belo	Received By		es chan	ge po	ssess			ing co	ourier	ueliver	<i>(</i> •	Date Tim	o:			Received	Ву:		200 S PAR (5)	<u> </u>
Relinquished by:		Date Time:		1 Received By					2 Relia	onine's	ed By:				Date Tim	0,			2 Received	Byr			
2				3	•				4	-danger.	y.								4	-,,			
Relinquished by:		Date Time:		Received By	:				Cust	tody Sc	al#			Preserve	d where a	pplicabl	е				On Ice	Coole	er Temp.
5				5											<u> </u>								

APPENDIX B





03/17/10



Technical Report for

ERS Corporation

T0600100196-1700 Jefferson, Oakland, CA

Accutest Job Number: C10104

Sampling Date: 03/03/10

Report to:

ERS Corporation 1600 Riviera Ave Suite 310 Walnut Creek, CA 94596 ddement@erscorp.us; ybayram@erscorp.us

ATTN: David Dement

Total number of pages in report: 20





Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Anne Kathain 408-588-0200

Certifications: CA (08258CA)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

1 of 20
ACCUTEST.
C10104 Laboratories

Laurie Glantz-Murphy

Laboratory Director

Sections:

_

63

-1-

Table of Contents

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: C10104-1: MW-1	5
2.2: C10104-2: MW-3	6
2.3: C10104-3: MW-5	7
2.4: C10104-4: MW-6	8
Section 3: Misc. Forms	9
3.1: Chain of Custody	10
Section 4: GC/MS Volatiles - QC Data Summaries	12
4.1: Method Blank Summary	13
4.2: Blank Spike Summary	15
4.3: Matrix Spike/Matrix Spike Duplicate Summary	19





Sample Summary

ERS Corporation

T0600100196-1700 Jefferson, Oakland, CA

Job No: C10104

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
C10104-1	03/03/10	11:24 LL	03/04/10	AQ	Ground Water	MW-1
C10104-2	03/03/10	10:59 LL	03/04/10	AQ	Ground Water	MW-3
C10104-3	03/03/10	11:55 LL	03/04/10	AQ	Ground Water	MW-5
C10104-4	03/03/10	10:28 LL	03/04/10	AQ	Ground Water	MW-6



Sample Results

Report of Analysis



Report of Analysis

Page 1 of 1

Client Sample ID: MW-1

 Lab Sample ID:
 C10104-1
 Date Sampled:
 03/03/10

 Matrix:
 AQ - Ground Water
 Date Received:
 03/04/10

 Method:
 SW846 8260B
 Percent Solids:
 n/a

Project: T0600100196-1700 Jefferson, Oakland, CA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 W12056.D 200 03/13/10 BD n/a n/a VW420

Run #2

Purge Volume

Run #1 10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	10100 8050 952 4560 ND 51700	200 200 200 400 200 10000	60 100 60 140 100 5000	ug/l ug/l ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	113% 99% 103%		60-13 60-13	80%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



1

Report of Analysis

Page 1 of 1

Client Sample ID: MW-3

 Lab Sample ID:
 C10104-2
 Date Sampled:
 03/03/10

 Matrix:
 AQ - Ground Water
 Date Received:
 03/04/10

 Method:
 SW846 8260B
 Percent Solids:
 n/a

Project: T0600100196-1700 Jefferson, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W12057.D	1	03/13/10	BD	n/a	n/a	VW420
Run #2	W12087.D	2	03/14/10	BD	n/a	n/a	VW421

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	97.9 12.1 20.3 13.7 ND 1570 a	1.0 1.0 1.0 2.0 1.0 100	0.30 0.50 0.30 0.70 0.50 50	ug/l ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	115% 100% 105%	114% 100% 103%	60-13 60-13	30%	

(a) Result is from Run# 2

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

indicates presumptive evidence of a compound



Report of Analysis

Page 1 of 1

Client Sample ID: MW-5

 Lab Sample ID:
 C10104-3
 Date Sampled:
 03/03/10

 Matrix:
 AQ - Ground Water
 Date Received:
 03/04/10

 Method:
 SW846 8260B
 Percent Solids:
 n/a

Project: T0600100196-1700 Jefferson, Oakland, CA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 W12058.D 100 03/13/10 BD n/a n/a VW420

Run #2

Purge Volume

Run #1 10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	6820 279 1870 2050 ND 27200	100 100 100 200 100 5000	30 50 30 70 50 2500	ug/l ug/l ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	113% 99% 102%		60-13 60-13	30%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Report of Analysis

Page 1 of 1

Client Sample ID: MW-6

 Lab Sample ID:
 C10104-4
 Date Sampled:
 03/03/10

 Matrix:
 AQ - Ground Water
 Date Received:
 03/04/10

 Method:
 SW846 8260B
 Percent Solids:
 n/a

Project: T0600100196-1700 Jefferson, Oakland, CA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 W12059.D 1 03/13/10 BD n/a n/a VW420

Run #2

Purge Volume

Run #1 10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND ND ND ND 33.4	1.0 1.0 1.0 2.0 1.0 50	0.30 0.50 0.30 0.70 0.50 25	ug/l ug/l ug/l ug/l ug/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	117% 99% 102%		60-13 60-13	30%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



CH	A	IN	OF	CUSTODY
N H H L	/~%	. H I 🔏	# # B I	A CHERT BUCKLOUP

	CHAIN OF CUSTODY 2235 Route 130, Dayton, NJ 08810																							
23	ACCUTES						2233 K 32-329						480	FED-EX	Tracking	#				Bottle Ord	er Control	¥		***************************************
(Laboratori													Accutest Quote # Accutest Job # C10104										
		7							AWC	179	5													
Company N	Client / Reporting Information			T		ject Info		1							0				Reque	sted An	alysis	2000	ASSESSED NO.	Matrix Codes
	EKS		0	Project N	lame:	3PS									O MTBE C	n								DW- Drinking Water GW- Ground Water
Address	600 Ríviera Ave.	#3	10	Street (700	J	eft	Le	V58	9h	-				RSOA	STARS	6							WW- Water SW- Surface Water
City W	about Crook CA		96	City	700 Tak	fan	d		State	A				Z1 C1 602 C1 TBAC1 NAP	D STARS	L D STARSD +TICSD	260						İ	SO- Soil StSludge OI-Oil
Project Contact: Yola Bayram ybayram Email Phone # (2000) 25 4 (2000) Fax# (2000) 420 - (1000)										10 600 TBAC	0 PPL 0	PAHO	8)							LIQ- Other Liquid				
Phone #	1231 4 38 - 1600				(925) 938-1610							2	TCL +10 E	TCL BND	0	0				-		AIR- Air		
Samplers's Accutest	Name Logan Linde	ISUMMA#	<u>~~</u>		ent Purchase Order # Dilection Number of preserved Bottles							MTBE	624 [] NAP[]	625 [] AE[]	PH							SOL-Other Solid WP-Wipe		
Sample #	Field ID / Point of Collection	MEOH Vial		Time	Sampled b	y Matrix			$\overline{}$	HZSO4	NONE	NaHSO4 MEOH	T I	8260 BTEX	8260 🗆 624 🖂 TBA 🗀 NAP	8270 (1) 625 (1) ABN(1) AE(1)	1						Ì	LAB USE ONLY
-1	MW-1	1	3/3/10	1124	LTL	GW	4	X						X			1							
-2_	MW-3			1059				X						X			X							
-3	MW-5			1155		Ш	Ш	K					L	X			2							
-4	MW-6		J.	1028	W	14	u	K.		_			L	×			X							
						ļ		_														1		
							ļ	-		_ _	\perp	_	_									4		
								-	$\vdash \vdash$		\vdash													
		<u> </u>				 		+	\vdash		\vdash						-					+	-	
						+	ļ	+-	\vdash		Н							-						
	Turnaround Time (Business days)					Data De	eliverabl	e Infor	mation	1588		6.00			ALCONO.				Co	mments /	Remarks			
Х	Std. 15 Business Days	Approved By	:/ Date:		X com			\subseteq		L CLP					I	1.00	10	מ או	112/	Da	6	T	-a A	ker EPF
	10 Day RUSH 5 Day RUSH				14	mercial "l educed	В"	H	•		egory i				1	ew	n L	T -	VU					
	3 Day EMERGENCY				NJ F				State	e Form	s				6	obo	<u> </u>	LD		10) (J	<u> </u>	T (00196
	2 Day EMERGENCY 1 Day EMERGENCY				Othe	r			EDD	Form	at					4	vials	eacl	n (u	HCL	(x4)			
	Other			*****	Comm	ercial "A	" = Resi	ılts Or	nly	_	/			_					1					
Emer	gency T/A data available VIA Labli				L								1	7	L					en destructes Malai	\sim	000000000000000000000000000000000000000	NATION SELECTION	
Relinquisl	' Sample Cust	ody must b	Date Time:	nted belo COLY	Received B	e samph	es char	ige p	osses	Rei	includ	ing co	urrer	delivery	and the same	Date Tim	e: 165	5		Received I	* 1	1		
1 Relinquisi	ned by: Just	·	2/4//4 Date Time:	rC~111	Received B	4		/		2 Ref	inquishe	ed By:	/		/	Date Tim	3 04	10		2 Received t		m		
3 Relinquisi	and hu		Date Time:		3 Received B	<u>~</u>) 	4	stody Se	4	_		/	d where a				4		lce	Cooler	Vann
5			one mie:		5	,				Cur	nouy St	.u/ #	v		- IESUIVE	54 Where :	,,,pnudDi							0.3 = 3.3°C

C10104: Chain of Custody Page 1 of 2



Accutest Laboratories Northern California Sample Receiving Check List

Review Chain of Custody Chain of Custody is to be complete and le	gible.			ERCCAWC1795
★Are these regulatory (NPDES) samples? CWA	Yes / No	Client Sample ID	pH Check	Other Comments/Issues
	Yes / No	•		
N Was Client informed that hold time is 15 min? Yes / No Continue	Yes / No			
^M w Was ortho-Phosphate filtered with in 15 min? Yes / No Continue	Yes / No			
✓ Are sample within hold time?	Yes)/No			
Are sample in danger of exceeding hold-time	Yes / No)			
☑ Existing Client? Yes / No Existing Project?	Yes / No			
If No: Is Report to info complete and legible, including;				
□ deliverable □ Name □ Address □ phone □ e-mail				
Is Bill to info complete and legible, including;				
□ PO# □ Credit card □ Contact □address □ phone □ e-mail				
Is Contact and/or Project Manager identified, including;				
phone ce-mail				
d Project name / number □ Special requirements?	YES / No			
Sample IDs / date & time of collection provided?	Yes / No			
•				
1s Matrix listed and correct?	Yes)/No			
Analyses listed we do or client has authorized a subcontract?	(Yes) / No			
☑/Chain is signed and dated by both client and sample custodian?	Yes)/No			
TAT requested available? Yesy No Approved by Pm				
Review Coolers:				
	o <u>3.3</u> ℃			
olf cooler is outside the ≤6°C; note down below the affected bottles in the				
Note that ANC does NOT accept evidentiary samples. (We do not lock	(refrigerators)			
Shipment Received Method Accutest Couvier				
☑ Custody Seals: Present: Yes / № If Yes; Unbroken:	Yes / No			
Review of Sample Bottles: If you answer no, explain to the side				
Chain matches bottle labels? Ves / No	Yes / No			
☑ Is there enough sample volume in proper bottle for requested analyses?	Yes/No			
Proper Preservatives? Yes / No Check pH on preserved samples ex	xcept 1664,			

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

625, 8270 and VOAs.

Headspace-VOAs? Greater than 6mm in diameter Yes / No List sample ID and affected container

C10104: Chain of Custody Page 2 of 2

Job#: C10104

Sample Control Rep. Initial:





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary Job Number: C10104

ERSCCAWC ERS Corporation Account:

T0600100196-1700 Jefferson, Oakland, CA **Project:**

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW420-MB	W12053.D	1	03/13/10	BD	n/a	n/a	VW420

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND ND	1.0	0.30	ug/l
100-41-4 1634-04-4	Ethylbenzene Methyl Tert Butyl Ether	ND ND	1.0 1.0	0.30 0.50	ug/l ug/l
108-88-3 1330-20-7	Toluene Xylene (total)	ND ND	1.0 2.0	0.50 0.70	ug/l ug/l
	TPH-GRO (C6-C10)	ND	50	25	ug/l

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	60-130%
2037-26-5	Toluene-D8	100%	60-130%
460-00-4	4-Bromofluorobenzene	102%	60-130%



Method Blank Summary Job Number: C10104

ERSCCAWC ERS Corporation Account:

T0600100196-1700 Jefferson, Oakland, CA **Project:**

Sample VW421-MB	File ID W12084.D	DF 1	Analyzed 03/14/10	By BD	Prep Date n/a	Prep Batch n/a	Analytical Batch VW421

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH-GRO (C6-C10)	ND	50	25	ug/l

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	112% 101% 102%	60-130% 60-130% 60-130%



Blank Spike Summary Job Number: C10104

Account: **ERSCCAWC ERS Corporation**

T0600100196-1700 Jefferson, Oakland, CA **Project:**

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW420-BS	W12050.D	1	03/13/10	BD	n/a	n/a	VW420

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.7	104	60-130
100-41-4	Ethylbenzene	20	20.3	102	60-130
1634-04-4	Methyl Tert Butyl Ether	20	19.3	97	60-130
108-88-3	Toluene	20	19.4	97	60-130
1330-20-7	Xylene (total)	60	59.1	99	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
	Dibromofluoromethane Toluene-D8	121% 97%	60-130% 60-130%
460-00-4	4-Bromofluorobenzene	103%	60-130%



Blank Spike Summary Job Number: C10104

Account: ERSCCAWC ERS Corporation

T0600100196-1700 Jefferson, Oakland, CA **Project:**

Sample VW420-BS	File ID W12052.D	DF 1	Analyzed 03/13/10	By BD	Prep Date n/a	Prep Batch n/a	Analytical Batch VW420

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	TPH-GRO (C6-C10)	125	142	114	60-130
CAS No.	Surrogate Recoveries	BSP	Lin	nits	
1868-53-7	Dibromofluoromethane	114%	60	130%	
2037-26-5	Toluene-D8	99%		130%	
460-00-4	4-Bromofluorobenzene	103%		130%	



Blank Spike Summary Job Number: C10104

Account: ERSCCAWC ERS Corporation

T0600100196-1700 Jefferson, Oakland, CA **Project:**

Sample File ID DF Analyzed By Prep Date Prep Batch Analytical Batch VW421-BS W12081.D 1 03/14/10 BD n/a n/a VW421	-			•	, •	, •	Analytical Batch VW421
---	---	--	--	---	-----	-----	---------------------------

The QC reported here applies to the following samples:

		Spike	BSP	BSP	
CAS No.	Compound	ug/l	ug/l	%	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
	Dibromofluoromethane	122%	60-130%
2037-26-5	Toluene-D8	98%	60-130%
460-00-4	4-Bromofluorobenzene	100%	60-130%



Blank Spike Summary Job Number: C10104

Account: **ERSCCAWC ERS Corporation**

T0600100196-1700 Jefferson, Oakland, CA **Project:**

|--|

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	TPH-GRO (C6-C10)	125	145	116	60-130
CAS No.	Surrogate Recoveries	BSP	Lir	nits	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	111% 100% 102%	60-	130% 130% 130%	



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C10104

Account: **ERSCCAWC ERS Corporation**

Project: T0600100196-1700 Jefferson, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C10095-8MS	W12070.D	1	03/13/10	BD	n/a	n/a	VW420
C10095-8MSD	W12071.D	1	03/13/10	BD	n/a	n/a	VW420
C10095-8	W12067.D	1	03/13/10	BD	n/a	n/a	VW420

The QC reported here applies to the following samples:

CAS No.	Compound	C10095-8 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND 13.1 ND ND	20 20 20 20 20 60	20.2 19.7 32.4 19.1 57.0	101 99 97 96 95	21.1 20.8 34.2 19.8 60.0	106 104 106 99 100	4 5 5 4 5	60-130/25 60-130/25 60-130/25 60-130/25 60-130/25
CAS No.	Surrogate Recoveries	MS	MSD	C 1	10095-8	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	118% 98% 103%	119% 98% 104%	10	5% 0% 4%	60-1309 60-1309 60-1309	6		



Page 1 of 1

Method: SW846 8260B

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C10104

Account: ERSCCAWC ERS Corporation

Project: T0600100196-1700 Jefferson, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C10195-8MS	W12101.D	1	03/14/10	BD	n/a	n/a	VW421
C10195-8MSD	W12102.D	1	03/14/10	BD	n/a	n/a	VW421
C10195-8	W12095.D	1	03/14/10	BD	n/a	n/a	VW421

The QC reported here applies to the following samples:

		C10195	-8	Spike	MS	MS	MSD	MSD		Limits
CAS No.	Compound	ug/l	Q	ug/l	ug/l	%	ug/l	%	RPD	Rec/RPD

CAS No.	Surrogate Recoveries	MS	MSD	C10195-8	Limits
	Dibromofluoromethane	120%	119%	111%	60-130%
2037-26-5 460-00-4	Toluene-D8 4-Bromofluorobenzene	96% 101%	96% 103%	99% 104%	60-130% 60-130%

