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Alameda County
Environmental Health

Declaration from the Responsible Party

Letter Report
Groundwater Monitoring Conducted 10 September 2010
2440 East Eleventh Street
Oakland CA
RO No. 29

Prepared by Streamborn, Dated 5 October 2010

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Jeffrey Eandi
Vice President
Eandi Metal Works
976 Twenty-Third Avenue
Oakland CA 94606

Signed



Dated

10/22/10

Jeffrey M. Eandi
Eandi Metal Works
976 Twenty-Third Avenue
Oakland CA 94606

5 October 2010

Project No. P279

Letter Report
Groundwater Monitoring Conducted 10 September 2010
2440 East Eleventh Street
Oakland CA
RO No. 29

Dear Mr. Eandi (hardcopy):

This letter report documents the results of groundwater monitoring conducted 10 September 2010 for monitoring wells MW1, MW2, MW3, and MW5 at/near the subject property.

Given the consistent nondetect monitoring results obtained from well MW4, Streamborn previously recommended that water quality sampling and testing be terminated for this well. Alameda County Environmental Health agreed with this recommendation (email correspondence dated 21 June 2010).

The results of our work are summarized in the following:

- Table 1 provides a chronology of environmental activities.
- Table 2 provides a bibliography.
- Table 3 summarizes groundwater level and gradient data.
- Table 4 summarizes well purging and sampling information since 2001. Purge water generated during sampling was containerized in labeled drums and stored onsite.
- Table 5 summarizes groundwater analytical data from monitoring wells.
- Table 6 summarizes the site hydrogeology.
- Figure 1 provides a location map (USGS).
- Figure 2 provides a vicinity map.
- Figure 3 provides a site plan.
- Figure 4 shows the groundwater levels and gradient (10 September 2010).
- Figure 5 shows temporal concentrations of TPH-gasoline in the monitoring wells.

- Figure 6 shows temporal concentrations of benzene in the monitoring wells.
- Figure 7 shows the estimated extent of groundwater contamination.
- Attachment 1 contains the groundwater sampling forms.
- Attachment 2 contains the laboratory reports and chain-of-custody forms.

Because of an overlying vehicle, the water level in well MW4 could not be measured during the September 2010 event. Accordingly, we did not interpret the direction and magnitude of groundwater gradient.

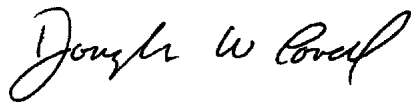
In general, the September 2010 monitoring results were consistent with historic results - contaminant concentrations typically continue to decrease with time or remain stable with time (Table 5, Figures 5-7).

The next groundwater-monitoring event is scheduled circa March/April 2011.

Please contact us with any questions or comments.

Sincerely,

STREAMBORN



Douglas W. Lovell, PE
Geoenvironmental Engineer



Attachments

Electronic Submission: This report, the water levels, and the laboratory EDF were uploaded to Geotracker (<http://geotracker.swrcb.ca.gov/>). This report was also uploaded to the Alameda County server.

Table 1 (Page 1 of 2)
Environmental Chronology
2440 East Eleventh Street
Oakland CA

Date	Performed By	Event
Unknown	Unknown	<ul style="list-style-type: none"> • 1,000-gallon underground leaded gasoline tank was installed.
15 August 1991	Eandi Metal Works	<ul style="list-style-type: none"> • The 1,000-gallon tank was emptied of product. Use of the tank was discontinued.
11 May 1992	Unknown	<ul style="list-style-type: none"> • The 1,000-gallon tank was removed and soil and groundwater contamination was discovered.
10 July 1995	AGI Technologies	<ul style="list-style-type: none"> • Five soil borings were drilled. Soil samples were collected and analyzed for TPH-gasoline, BTEX, MtBE, and total metals. • Three of the borings were completed as monitoring wells (MW1, MW2, and MW3). The other two borings (E1 and E2) were grouted. • Water levels were measured in wells MW1, MW2, and MW3. • Wells MW1, MW2, and MW3 were developed and groundwater samples were collected. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead. • An elevation survey was conducted for wells MW1, MW2, and MW3.
17 July 1995	AGI Technologies	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
20 October 1995	AGI Technologies	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, and total lead.
25 January 1996	AGI Technologies	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
25 April 1996	AGI Technologies	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
11 - 12 June 2001	Kleinfelder	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, and total lead.
5 February 2002	Kleinfelder	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, MtBE, and total lead.
9 June 2004	Streamborn	<ul style="list-style-type: none"> • Using a backhoe, the excavation for the former tank was partially re-excavated. • Soil samples were collected from the base (7.5-8 feet below ground surface) and each of the four sidewalls (5-5.5 feet below ground surface) by exposing native soil and driving a brass liner into the exposed soil. • Soil samples were analyzed for TPH-diesel/kerosene/stoddard solvent, TPH-gasoline, BTEX, fuel oxygenates, and total lead.
12 August 2004	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, and total lead. • Seven geoprobe borings (B1-B7) were drilled to depths between 20 and 32 feet. Soil samples were collected continuously in the borings. • Two soil samples were retained from each of the borings for chemical analysis. One soil sample approximately coincided with the depth of groundwater observed during drilling and the other soil sample coincided with the bottom of the boring. Soil samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, and total lead. • Temporary casings were installed in the borings and water levels allowed to stabilize for at least one hour. Water levels were measured. • Purged groundwater samples were collected from the temporary casings. Samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, and total lead. • The temporary casings were removed from the borings and the borings were grouted.
17-23 September 2004	Streamborn	<ul style="list-style-type: none"> • Using a backhoe, the excavation for the former tank was completely re-excavated. The excavated soil was air-dried and replaced in the excavation using ± 2-foot lifts. Each lift was compacted using a whacker. 6 inches of imported Class II aggregate base was placed as the final lift of soil. • The pavement and sidewalk were repaved with reinforced concrete. The concrete thickness was 8 inches. The reinforcement was #5 rebar on 12-inch centers.
2 March 2005	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, and MW3. • Groundwater samples were collected from wells MW1, MW2, and MW3. Samples were analyzed for TPH-gasoline, BTEX, and fuel oxygenates.

Table 1 (Page 2 of 2)
Environmental Chronology
2440 East Eleventh Street
Oakland CA

Date	Performed By	Event
28 September 2006	Streamborn	<ul style="list-style-type: none"> • Two direct push borings were drilled to 17 feet. Soil samples were collected continuously during drilling and selected samples were analyzed for TPH-gasoline, BTEX, fuel oxygenates, total lead, and lead scavengers (1,2-dichloroethane and ethylene dibromide). • Each boring was subsequently overdrilled using a hollow-stem auger and completed as a two-inch diameter, 17-foot deep monitoring well (MW4 and MW5). • The elevations of wells MW4 and MW5 were surveyed.
2 October 2006	Streamborn	<ul style="list-style-type: none"> • Wells MW4 and MW5 were developed. • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260), total lead, and lead scavengers (1,2-dichloroethane and ethylene dibromide).
20 March 2007	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
10 September 2007	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
10 March 2008	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
8 September 2008	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
3 March 2009	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
28 August 2009	Streamborn	<ul style="list-style-type: none"> • Virgil Chavez Land Surveying (Vallejo CA) surveyed wells MW1 through MW5 to the NAD83 horizontal datum and the NAVD88 vertical datum.
1 September 2009	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
8 March 2010	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, MW4, and MW5. • Groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).
10 September 2010	Streamborn	<ul style="list-style-type: none"> • Groundwater levels were measured in wells MW1, MW2, MW3, and MW5. The water level in well MW4 could not be measured because an overlying vehicle obstructed access. • Groundwater samples were collected from wells MW1, MW2, MW3, and MW5. Samples were analyzed for TPH-gasoline/BTEX/fuel oxygenates (EPA Method 8260).

General Notes

- (a) TPH = total petroleum hydrocarbons.
- (b) BTEX = benzene, toluene, xylenes, and total xylenes.
- (c) MtBE = methyl tert-butyl ether.

Table 2 (Page 1 of 2)
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2440 East Eleventh Street
Oakland CA

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Table 2 (Page 2 of 2)
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2440 East Eleventh Street
Oakland CA

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Table 3
Groundwater Level and Gradient Data
2440 East Eleventh Street
Oakland CA

Location	MW1		MW2		MW3		MW4		MW5		Groundwater Gradient	
Ground Surface Elevation	24.51		24.21		23.06		23.12		22.59			
Casing Diameter (inches)	2		2		2		2		2			
Surveyed Latitude and Longitude (NAD83)	37.7801530 -122.2358181		37.7800499 -122.2358522		37.7800410 -122.2361722		37.7799066 -122.2361136		37.7800613 -122.2363355			
Measuring Point (NAV88)	TOC N Side Elev = 24.14		TOC N Side Elev = 23.92		TOC N Side Elev = 22.69		TOC N Side Elev = 22.45		TOC N Side Elev = 21.94			
Intercepted Interval	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	Direction	Magnitude
	9 to 20	4.5 to 15.5	9 to 20	4.2 to 15.2	9 to 20	3.1 to 14.1	6 to 17	6.1 to 17.1	6 to 17	5.6 to 16.6		
14 July 1995	9.72	14.42	10.74	13.18	10.95	11.74						
17 July 1995	11.11	13.03	10.93	12.99	11.04	11.65						
20 October 1995	11.96	12.18	11.92	12.00	12.11	10.58						
25 January 1996	8.14	16.00	8.23	15.69	8.83	13.86						
11-12 June 2001	10.35	13.79	11.50	12.42	11.08	11.61						
5 February 2002	11.00	13.14	11.10	12.82	11.30	11.39						
12 August 2004	10.95	13.19	11.17	12.75	11.77	10.92					N 115° W	0.02
2 March 2005	8.25	15.89	8.44	15.48	9.36	13.33					N 120° W	0.03
2 October 2006	11.08	13.06	11.15	12.77	11.79	10.90	11.48	10.97	11.28	10.66	N 126° W	0.02
20 March 2007	10.96	13.18	10.78	13.14	10.91	11.78	10.57	11.88	10.41	11.53	N 127° W	0.01
10 September 2007	11.24	12.90	11.54	12.38	12.20	10.49	11.91	10.54	11.68	10.26	N 128° W	0.02
10 March 2008	10.74	13.40	10.89	13.03	10.60	12.09	10.28	12.17	10.16	11.78	N 114° W	0.01
8 September 2008	11.73	12.41	11.42	12.50	12.09	10.60	11.77	10.68	11.57	10.37	N 124° W	0.01
3 March 2009	8.31	15.83	8.22	15.70	9.30	13.39	8.98	13.47	8.93	13.01	N 117° W	0.02
1 September 2009	10.99	13.15	11.29	12.63	11.97	10.72	11.68	10.77	11.45	10.49	N 114° W	0.02
8 March 2010	9.00	15.14	8.98	14.94	9.84	12.85	9.48	12.97	9.43	12.51	N 116° W	0.02
10 September 2010	11.26	12.88	11.20	12.72	11.82	10.87			11.46	10.48		
Total Depth (Last Measurement)	19.8		19.8		19.6		17.3		17.2			

General Notes

- (a) Elevations are cited in units of feet, relative to the NAVD88 datum (NOT Mean Sea Level).
- (b) TOC = top of PVC casing. N = north. Measuring points were the top of the PVC casing, north side.
- (c) The intercepted intervals correspond to the sand pack interval. The depths of the intercepted intervals were measured relative to ground surface.
- (d) On 28 August 2009, Virgil Chavez Land Surveying (Vallejo CA) surveyed wells MW1 through MW5. Horizontal coordinates were surveyed relative to the NAD83 datum. Elevations were surveyed relative to the NAVD88 datum. According to Virgil Chavez Land Surveying, subtract 2.726 feet from the NAVD88 elevations to convert to NGVD29 (Mean Sea Level) datum. Previous surveys had been conducted by HTT Engineering (Oakland CA) and Streamborn; however, the data in this table are based solely on the survey by Virgil Chavez Land Surveying.

Table 4
Well Purging and Sampling Information Since 2001
2440 East Eleventh Street
Oakland CA

Well No.	Sample Date	Sample Type	Purge Method	Purge Duration (minutes)	Approximate Volume Purged (gallons)	Volume Purged (static water casing volumes)	Purged Dry?	Dissolved Oxygen (mg/L)	pH	Specific Conductance (µS/cm)	Temp (°C)	ORP (mV)	Turbidity/Color
MW1	11 Jun 01	Grab	SPP	NM	20	NC	no	NM	6.8	310	21.4	NM	NM
	5 Feb 02	Grab	SPP	NM	4	NC	no	NM	6.6	290	18.8	NM	NM
	12 Aug 04	Grab	SPP	4	5	±3	no	1.1	7.0	230	18.8	-130	Clear/none
	2 Mar 05	Grab	SPP	7	6	±3	no	2.2	6.9	230	17.1	-160	Clear/none
	2 Oct 06	Grab	SPP	7	5	±3	no	1.0	6.6	380	17.7	-130	Translucent/gray
	20 Mar 07	Grab	SPP	25	5	±3	no	0.8	6.8	410	16.1	-130	Clear/none
	10 Sep 07	Grab	SPP	8	5	±3	no	0.9	6.7	480	18.0	-100	Clear/none
	10 Mar 08	Grab	SPP	11	5	±3	no	0.7	6.9	410	16.6	-110	Clear/none
	8 Sep 08	Grab	SPP	6	4	±3	no	1.0	6.9	530	18.4	-80	Clear/none
	3 Mar 09	Grab	SPP	11	6	±3	no	0.8	6.8	480	15.8	-60	Clear/none
	1 Sep 09	Grab	SPP	15	5	±3	no	0.8	6.8	500	19.2	-80	Clear/none
	8 Mar 10	Grab	SPP	23	7	±4	no	0.7	6.8	450	17.4	-90	Clear/none
10 Sep 10	Grab	SPP	16	4	±3	no	0.7	6.7	580	18.1	-60	Clear/none	
MW2	12 Jun 01	Grab	SPP	NM	15	NC	no	NM	7.1	430	17.2	NM	NM
	5 Feb 02	Grab	SPP	NM	4	NC	no	NM	6.6	400	16.8	NM	NM
	12 Aug 04	Grab	SPP	4	5	±3	no	2.0	6.8	510	18.9	-170	Turbid/gray
	2 Mar 05	Grab	SPP	7	6	±3	no	2.2	6.7	490	17.7	-220	Clear/none
	2 Oct 06	Grab	SPP	7	5	±3	no	1.0	6.7	490	18.0	-110	Clear/none
	20 Mar 07	Grab	SPP	20	5	±3	no	1.0	6.9	490	16.7	-170	Clear/none
	10 Sep 07	Grab	SPP	7	4	±3	no	0.7	6.8	560	19.6	-110	Clear/none
	10 Mar 08	Grab	SPP	11	5	±3	no	0.9	7.1	520	17.1	-90	Clear/none
	8 Sep 08	Grab	SPP	7	5	±3	no	1.5	7.5	670	19.0	-50	Clear/none
	3 Mar 09	Grab	SPP	11	6	±3	no	0.9	6.9	690	15.9	-50	Clear/none
	1 Sep 09	Grab	SPP	14	5	±3	no	0.7	6.9	670	21.1	-60	Translucent/gray
	8 Mar 10	Grab	SPP	24	7	±4	no	0.8	6.8	630	17.4	-70	Clear/none
10 Sep 10	Grab	SPP	12	4	±3	no	0.7	6.8	690	19.2	-80	Clear/none	
MW3	12 Jun 01	Grab	SPP	NM	12	NC	no	NM	7.4	440	17.2	NM	NM
	5 Feb 02	Grab	SPP	NM	4	NC	no	NM	6.6	410	17.8	NM	NM
	12 Aug 04	Grab	SPP	8	4	±3	no	1.7	6.6	440	19.0	-150	Clear/none
	2 Mar 05	Grab	SPP	6	5	±3	no	2.3	6.8	500	18.1	-200	Clear/none
	2 Oct 06	Grab	SPP	6	4	±3	no	1.0	6.8	490	18.8	-60	Clear/none
	20 Mar 07	Grab	SPP	25	4	±3	no	1.6	6.7	540	16.8	-60	Clear/none
	10 Sep 07	Grab	SPP	7	4	±3	no	0.9	6.7	530	18.8	-120	Clear/none
	10 Mar 08	Grab	SPP	10	5	±3	no	0.7	7.1	510	17.5	-100	Clear/none
	8 Sep 08	Grab	SPP	6	4	±3	no	1.0	7.0	600	19.3	-50	Clear/none
	3 Mar 09	Grab	SPP	7	5	±3	no	0.9	6.8	620	16.7	-50	Clear/none
	1 Sep 09	Grab	SPP	12	4	±3	no	0.8	6.8	570	19.6	-60	Clear/none
	8 Mar 10	Grab	SPP	15	5	±3	no	0.7	6.8	540	16.9	-70	Clear/none
10 Sep 10	Grab	SPP	7	4	±3	no	0.6	6.8	550	19.5	-80	Clear/none	
MW4	2 Oct 06	Grab	SPP	24	14	±16	no	4.6	7.1	630	18.5	180	Translucent/brown
	20 Mar 07	Grab	SPP	15	3	±3	no	1.2	6.5	470	15.7	170	Clear/none
	10 Sep 07	Grab	SPP	7	3	±3	no	1.4	6.4	490	18.1	120	Translucent/gray
	10 Mar 08	Grab	SPP	9	4	±3	no	1.4	6.6	480	15.9	120	Clear/none
	8 Sep 08	Grab	SPP	4	3	±3	no	1.3	6.6	560	18.1	140	Clear/none
	3 Mar 09	Grab	SPP	7	4	±3	no	2.0	6.6	590	15.8	280	Clear/none
	1 Sep 09	Grab	SPP	9	3	±3	no	0.9	6.6	530	18.3	130	Clear/none
	8 Mar 10	Grab	SPP	10	4	±3	no	1.1	6.6	460	16.0	170	Clear/none
MW5	2 Oct 06	Grab	SPP	35	22	±24	no	3.4	7.0	600	19.1	30	Translucent/brown
	20 Mar 07	Grab	SPP	23	3	±3	no	0.9	6.9	580	16.6	-70	Clear/none
	10 Sep 07	Grab	SPP	7	3	±3	no	0.8	6.8	630	19.5	-90	Clear/none
	10 Mar 08	Grab	SPP	11	4	±3	no	1.0	7.1	570	16.6	-100	Clear/none
	8 Sep 08	Grab	SPP	4	3	±3	no	1.0	7.1	730	20.4	-80	Clear/none
	3 Mar 09	Grab	SPP	8	4	±3	no	0.8	6.9	670	16.1	-80	Clear/none
	1 Sep 09	Grab	SPP	9	3	±3	no	0.9	6.8	660	19.9	-70	Clear/none
	8 Mar 10	Grab	SPP	8	4	±3	no	0.7	6.9	570	15.9	-90	Clear/none
10 Sep 10	Grab	SPP	8	3	±3	no	0.6	6.9	630	19.4	-100	Clear/none	

General Notes

- (a) NM = not measured.
- (b) NC = not calculated.
- (c) ORP = oxidation-reduction potential.
- (d) SPP = submersible purge pump.
- (d) Measurements cited in this table correspond to the end of purging (time of sampling).

Table 5 (Page 1 of 2)
Groundwater Analytical Data from Monitoring Wells
2440 East Eleventh Street
Oakland CA

Location	Sample Date	Sample Type	Total Lead (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	1,2-Dichloro-ethane (µg/L)	Ethylene Dibromide (µg/L)	MtBE (µg/L)	Other Fuel Oxygenates (EPA Method 8260) (µg/L)
MW1	17 Jul 1995	Grab	<40	22,000	390	2,000	800	5,300	NM	NM	<125	NM
	20 Oct 1995	Grab	<40	14,000	270	540	360	1,800	NM	NM	NM	NM
	25 Jan 1996	Grab	<40	16,000	740	1,300	490	2,700	NM	NM	<500	NM
	25 Apr 1996	Grab	<40	4,600	180	450	190	1,000	NM	NM	<250	NM
	11 Jun 2001	Grab	14	7,100	14	35	240	720	NM	NM	NM	NM
	5 Feb 2002	Grab	3.7	9,300	6.3	11	230	560	NM	NM	<0.70	NM
	12 Aug 2004	Grab	<5.0	2,900	9.1	6.0	130	160	NM	NM	0.72	<0.50 to <50
	2 Mar 2005	Grab	NM	950	1.9	0.60	19	4.0	NM	NM	0.80	<0.50 to <50
	2 Oct 2006	Grab	<100	830	4.1	0.80	44	7.8	<0.50	<0.50	<0.50	<0.50 to <100
	20 Mar 2007	Grab	NM	470	2.1	<0.50	8.5	1.8	<0.50	NM	0.63	<0.50 to <100
	10 Sep 2007	Grab	NM	3,400	18	6.4	170	43	<0.50	NM	1.1	<0.50 to <100
	10 Mar 2008	Grab	NM	950	2.9	0.66	19	1.9	<0.50	NM	0.72	<0.50 to <100
	8 Sep 2008	Grab	NM	3,600	14	6.5	200	19	<0.50	NM	0.62	<0.50 to <100
	3 Mar 2009	Grab	NM	1,600	5.2	2.1	68	9.7	NM	NM	0.56	<0.50 to <5.0
	1 Sep 2009	Grab	NM	1,700	7.0	2.2	64	4.2	NM	NM	<0.50	<0.50 to <5.0
8 Mar 2010	Grab	NM	400	1.0	<0.50	17	1.2	NM	NM	<0.50	<0.50 to <4.0	
10 Sep 2010	Grab	NM	350	4.6	0.76	12	1.0	NM	NM	<0.50	<0.50 to <4.0	
MW2	17 Jul 1995	Grab	56.4	21,000	370	1,700	930	5,100	NM	NM	<125	<0.50 to <5.0
	20 Oct 1995	Grab	<40	730	18	27	26	7.9	NM	NM	NM	NM
	25 Jan 1996	Grab	<40	14,000	74	660	1,000	2,600	NM	NM	670	NM
	25 Apr 1996	Grab	<40	13,000	370	440	1,000	2,900	NM	NM	<500	NM
	12 Jun 2001	Grab	7.7	3,200	11	6.2	170	270	NM	NM	NM	NM
	5 Feb 2002	Grab	3.5	2,900	7.6	3.8	220	160	NM	NM	<0.70	NM
	12 Aug 2004	Grab	<5.0	3,100	2.6	1.8	<0.50	13	NM	NM	<0.50	<0.50 to <5.0
	2 Mar 2005	Grab	NM	3,700	<5.0	<2.5	340	22	NM	NM	<2.5	<2.5 to <25
	2 Oct 2006	Grab	<100	7,200	<2.5	3.0	380	30	<2.5	<2.5	<2.5	<2.5 to <500
	20 Mar 2007	Grab	NM	7,000	<5.0	<5.0	370	34	<5.0	NM	<5.0	<5.0 to <1,000
	10 Sep 2007	Grab	NM	9,300	<2.5	3.8	530	38	<2.5	NM	<2.5	<2.5 to <500
	10 Mar 2008	Grab	NM	6,500	<2.5	<2.5	200	13	<2.5	NM	<2.5	<2.5 to <500
	8 Sep 2008	Grab	NM	7,300	<2.5	<2.5	290	12	<2.5	NM	<2.5	<2.5 to <500
	3 Mar 2009	Grab	NM	3,700	<0.50	1.1	<0.50	4.7	NM	NM	<0.50	<0.50 to <5.0
	1 Sep 2009	Grab	NM	5,100	1.4	1.8	140	9.2	NM	NM	<1.0	<1.0 to <10
8 Mar 2010	Grab	NM	2,400	1.7	2.3	100	7.7	NM	NM	<1.0	<1.0 to <8.0	
10 Sep 2010	Grab	NM	3,000	1.7	2.1	160	10	NM	NM	<1.0	<1.0 to <8.0	
MW3	17 Jul 1995	Grab	153	8,400	1,200	150	1,000	1,700	NM	NM	<125	NM
	20 Oct 1995	Grab	<40	5,800	600	590	43	340	NM	NM	NM	NM
	25 Jan 1996	Grab	<40	10,000	1,200	290	870	1,300	NM	NM	<250	NM
	25 Apr 1996	Grab	<40	8,900	830	140	1,000	1,000	NM	NM	400	NM
	12 Jun 2001	Grab	7.4	1,800	37	4.5	98	19	NM	NM	NM	NM
	5 Feb 2002	Grab	4.4	1,100	32	2.1	76	9.5	NM	NM	<0.50	NM
	12 Aug 2004	Grab	<50	1,100	4.5	<0.50	6.0	1.8	NM	NM	1.4	<0.50 to <5.0
	2 Mar 2005	Grab	NM	3,000	27	3.0	76	22	NM	NM	<2.5	<2.5 to <25
	2 Oct 2006	Grab	<100	1,500	6.6	<0.50	5.0	2.5	<0.50	<0.50	<0.50	<0.50 to <100
	20 Mar 2007	Grab	NM	2,200	15	1.6	14	12	<0.50	NM	0.52	<0.50 to <100
	10 Sep 2007	Grab	NM	1,000	4.2	<0.50	<0.50	0.82	<0.50	NM	0.53	<0.50 to <100
	10 Mar 2008	Grab	NM	4,000	13	1.1	7.0	7.4	<0.50	NM	<0.50	TAME = 0.53 Others <0.50 to <100
	8 Sep 2008	Grab	NM	1,100	9.7	0.75	7.7	5.9	<0.50	NM	0.59	<0.50 to <100
	3 Mar 2009	Grab	NM	2,100	14	1.6	16	14	NM	NM	<0.50	<0.50 to <5.0
	1 Sep 2009	Grab	NM	1,400	4.7	<0.50	0.52	1.7	NM	NM	<0.50	<0.50 to <5.0
8 Mar 2010	Grab	NM	2,500	13	1.1	6.8	15	NM	NM	<0.50	<0.50 to <4.0	
10 Sep 2010	Grab	NM	640	1.9	<0.50	<0.50	<1.0	NM	NM	<0.50	<0.50 to <4.0	
MW4	2 Oct 2006	Grab	<100	<50	<0.50	<0.50	0.96	<0.50	<0.50	<0.5	<0.5	<0.50 to <100
	20 Mar 2007	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	10 Sep 2007	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	10 Mar 2008	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	8 Sep 2008	Grab	NM	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM	<0.5	<0.50 to <100
	3 Mar 2009	Grab	NM	<50	<0.50	<0.50	<0.50	<1.0	NM	NM	<0.5	<0.50 to <5.0
	1 Sep 2009	Grab	NM	<50	<0.50	<0.50	<0.50	<1.0	NM	NM	<0.5	<0.50 to <5.0
8 Mar 2010	Grab	NM	<50	<0.50	<0.50	<0.50	<1.0	NM	NM	<0.50	<0.50 to <4.0	

Table 5 (Page 2 of 2)
Groundwater Analytical Data from Monitoring Wells
2440 East Eleventh Street
Oakland CA

Location	Sample Date	Sample Type	Total Lead (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-Dichloroethane (µg/L)	Ethylene Dibromide (µg/L)	MtBE (µg/L)	Other Fuel Oxygenates (EPA Method 8260) (µg/L)
MW5	2 Oct 2006	Grab	<100	3,000	20	0.97	69	130	<0.50	<0.50	2.6	<0.50 to <100
	20 Mar 2007	Grab	NM	2,800	13	1.5	27	35	<0.50	NM	1.6	<0.50 to <100
	10 Sep 2007	Grab	NM	1,900	11	0.78	10	9.2	<0.50	NM	2.5	<0.50 to <100
	10 Mar 2008	Grab	NM	4,900	7.8	1.4	13	12	<0.50	NM	1.2	<0.50 to <100
	8 Sep 2008	Grab	NM	2,300	9.7	0.75	7.7	5.9	<0.50	NM	2.3	<0.50 to <100
	3 Mar 2009	Grab	NM	2,600	11	4	60	30	NM	NM	<2.5	<2.5 to <25
	1 Sep 2009	Grab	NM	1,800	5.5	0.68	5.5	2.5	NM	NM	0.98	<0.50 to <5.0
	8 Mar 2010	Grab	NM	2,100	6.0	1.8	14	9.4	NM	NM	<0.50	<0.50 to <4.0
10 Sep 2010	Grab	NM	1,800	5.7	0.65	3.6	2.3	NM	NM	<0.50	<0.50 to <4.0	

Environmental Screening Level - California Maximum Contaminant Levels (drinking water criteria)	15		1.0	150	300	1,750	0.5	0.050				
Environmental Screening Level - Risk-Based Drinking Water Equivalent for Carcinogens, 10 ⁻⁶ Excess Cancer Risk (drinking water criteria)			0.35		3.2		0.38	0.0097				
Environmental Screening Level - California Office of Environmental Health Hazard Assessment (OEHHA), Public Health Goal (PHG) (drinking water criteria)	2.0		0.15	150	300	1,800	0.4					
Environmental Screening Level - Taste and Odor Threshold (drinking water criteria)	50,000	100	170	40	30	20	700	50,000				
Environmental Screening Level - Volatilization from Groundwater and Subsequent Vapor Intrusion, Residential Use		Measure Soilgas	540	380,000	170,000	160,000	200	150				
Environmental Screening Level - Volatilization from Groundwater and Subsequent Vapor Intrusion, Commercial Use		Measure Soilgas	1,800	530,000	170,000	160,000	690	510				
Environmental Screening Level - Gross Contamination Ceiling Value for Groundwater (nuisance odors, etc.)	50,000	5,000	20,000	400	300	5,300	50,000	50,000				
Environmental Screening Level - Estuarine Surface Water - Chronic Habitat Aquatic Toxicity	2.5	210	46	130	43	100	2,000	1,400				
Environmental Screening Level - Estuarine Surface Water - Bioaccumulation/Human Consumption			71	200,000	29,000		99					

General Notes

- (a) TPH = total petroleum hydrocarbons. MtBE = methyl tert-butyl ether. TAME = tert-amyl methyl ether.
- (b) NM = not measured.
- (c) Samples were collected using a Teflon bailer fitted with a bottom-emptying device.
- (d) Environmental Screening Levels from: *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final - November 2007, Revised May 2008)*. Prepared by San Francisco Bay Regional Water Quality Control Board, Oakland CA. 27 May 2008. www.waterboards.ca.gov/sanfranciscobay/esl.shtml

Table 6
Hydrogeologic Summary
2440 East Eleventh Street
Oakland CA

Subsurface lithology in the immediate vicinity of the contaminant source and plume

- The subsurface lithology has been observed in conventional borings along with borings to install monitoring wells.
- The maximum depth explored has been approximately 20 feet. Significant/regional water bearing zones (aquifers) likely occur at significantly greater depth.
- The observed subsurface soils have typically been fine-grained. Observed fine-grained soils have included lean and fat clay, silt, and mixtures of clay and silt with various but minor amounts of sand and gravel.
- Groundwater occurs within intermittent, continuous and discontinuous, coarse-grained lenses. The coarse-grained lenses appear to be more prevalent in the immediate vicinity of the former underground tank and less prevalent downgradient (southwest) of the former tank. Observed coarse-grained soils (lenses) have included sandy gravel, gravelly sand, and mixtures of sand and gravel with various but typically minor amounts of clay and silt.
- Specifically observed fine-grained soils have included lean clay, fat clay, silt, sandy silt, silt with sand, fat clay with sand, fat clay with gravel, sandy fat clay, sandy fat clay with gravel, sandy lean clay, lean clay with sand, and lean clay with gravel.
- Specifically observed coarse-grained soils (lenses) have included sandy gravel, gravelly sand, clayey sand, clayey sand with gravel, clayey gravel with sand, silty sand with gravel, well-graded sand with silt and gravel, well-graded sand with clay and gravel, poorly-graded sand with clay, and well-graded gravel with clay and sand.
- In the immediate vicinity of the former tank, fill materials, consisting of coarse-grained soils, were observed near ground surface.

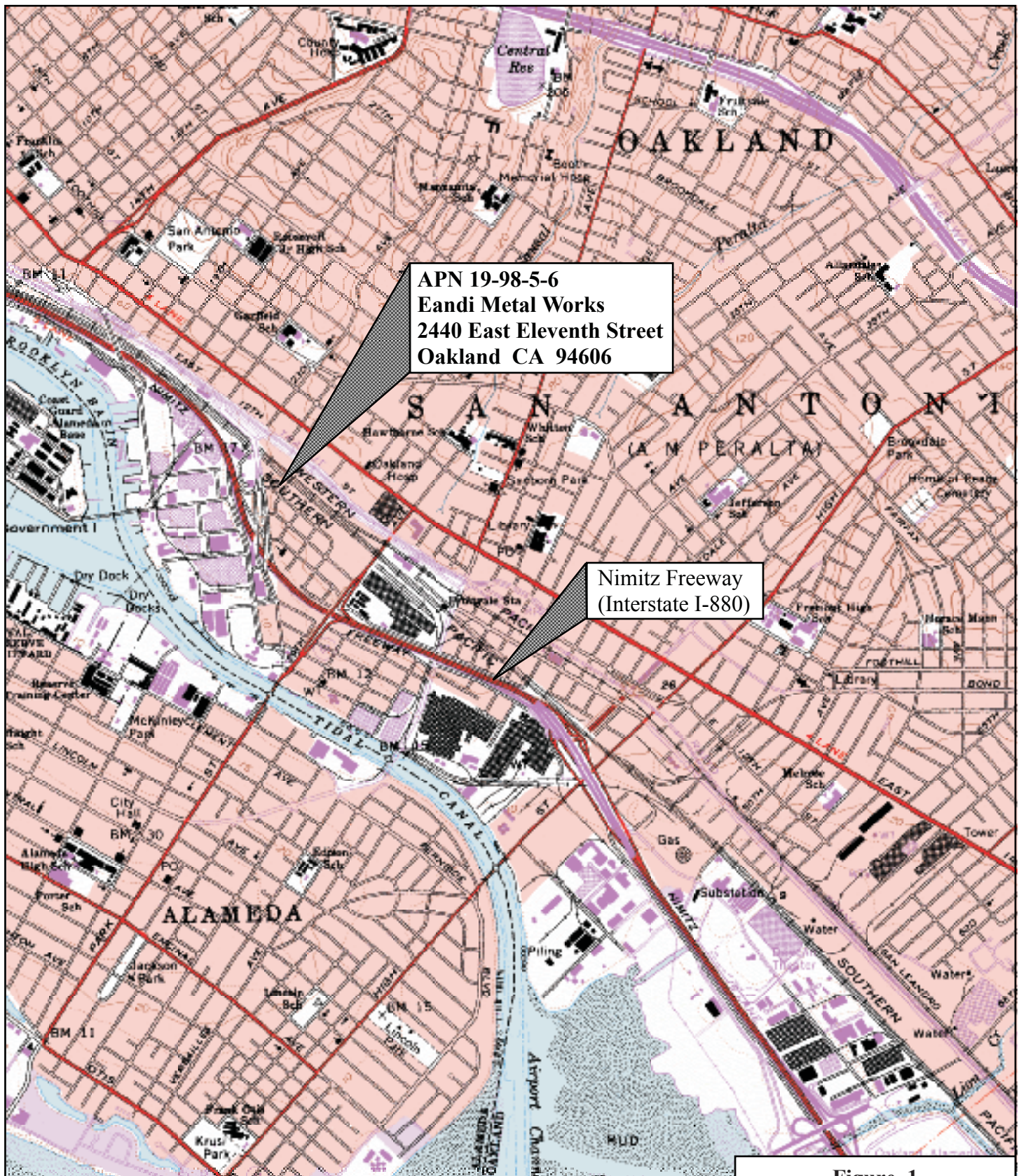
Depth to groundwater and groundwater gradient in the immediate vicinity of the contaminant source and plume

- The depth to groundwater has typically been measured between ± 8 to ± 12 feet below ground surface.
- The groundwater gradient has typically been directed to the southwest (toward the Oakland-Alameda Estuary). The gradient direction has been measured between N 114° W and N 128° W (average N 120° W). The magnitude has typically varied between 0.01 and 0.03 (average 0.02).

Groundwater advection velocity (very approximate)

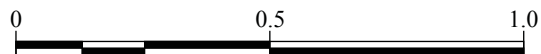
- The characteristic soil type within the groundwater lenses has consisted of a mixture of sand and gravel with minor amounts of silt or clay. This soil type may be expected to have a permeability of approximately 0.0005 centimeters per second (1.4 feet per day) (Cedegren 1967). Using the average measured groundwater gradient of 0.02 and assuming an effective porosity of 0.3, the average advection velocity through the coarse-grained lenses may be calculated as:

$$V_{ave} = (k) (i) / (n_e) = (1.4 \text{ feet per day}) (0.02) / (0.3) = 0.09 \text{ feet per day (34 feet per year)}$$

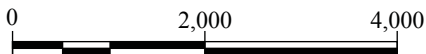


APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA 94606

Nimitz Freeway
(Interstate I-880)



Approximate Scale in Miles



Approximate Scale in Feet



Basemap: U.S. Geological Survey, 7.5 Minute Quadrangle, Oakland East CA. 1959 (Photorevised 1980)

Figure 1

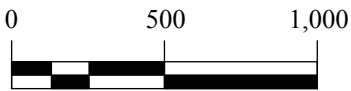
Location Map

2440 East Eleventh Street
Oakland CA



APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA 94606

Nimitz Freeway
(Interstate I-880)



Approximate Scale in Feet


Basemap: Aerial photograph, flown 24 August 1998, photograph ALA-AV-6100-11-38. Pacific Aerial Surveys, Oakland CA.

Figure 2

Vicinity Map

2440 East Eleventh Street
Oakland CA

Legend

 Existing monitoring well

Location of former 1,000-gallon underground gasoline tank

APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA

Eandi Metal Works
976 23rd Avenue
Oakland CA

MW5

MW3

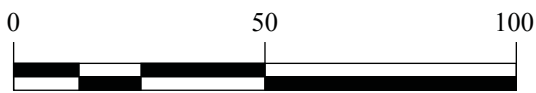
MW4

MW2

MW1

East Eleventh Street

25th Avenue



Approximate Scale in Feet

Basemap: Aerial photograph, flown 24 August 1998, photograph number ALA-AV-6100-11-38, original scale 1:12,000. Pacific Aerial Surveys, Oakland CA

Figure 3

Site Plan

**2440 East Eleventh Street
Oakland CA**

Legend

 Monitoring well

Location of former 1,000-gallon underground gasoline tank

APN 19-98-5-6
Eandi Metal Works
2440 East Eleventh Street
Oakland CA

MW5
10.48

MW3
10.87

MW2
12.72

MW1
12.88

MW4

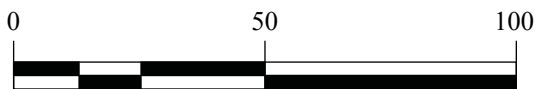
Because the water level could not be measured in well MW4 (an overlying vehicle blocked access), the direction and magnitude of the groundwater gradient has not been interpreted.

Eandi Metal Works
976 23rd Avenue
Oakland CA

25th Avenue

East Eleventh Street

Groundwater elevations cited in units of feet, referenced to the NAVD88 Datum (NOT Mean Sea Level)



Approximate Scale in Feet

Basemap: Aerial photograph, flown 24 August 1998, photograph number ALA-AV-6100-11-38, original scale 1:12,000. Pacific Aerial Surveys, Oakland CA

Figure 4

Groundwater Levels and Gradient
(10 September 2010)

2440 East Eleventh Street
Oakland CA

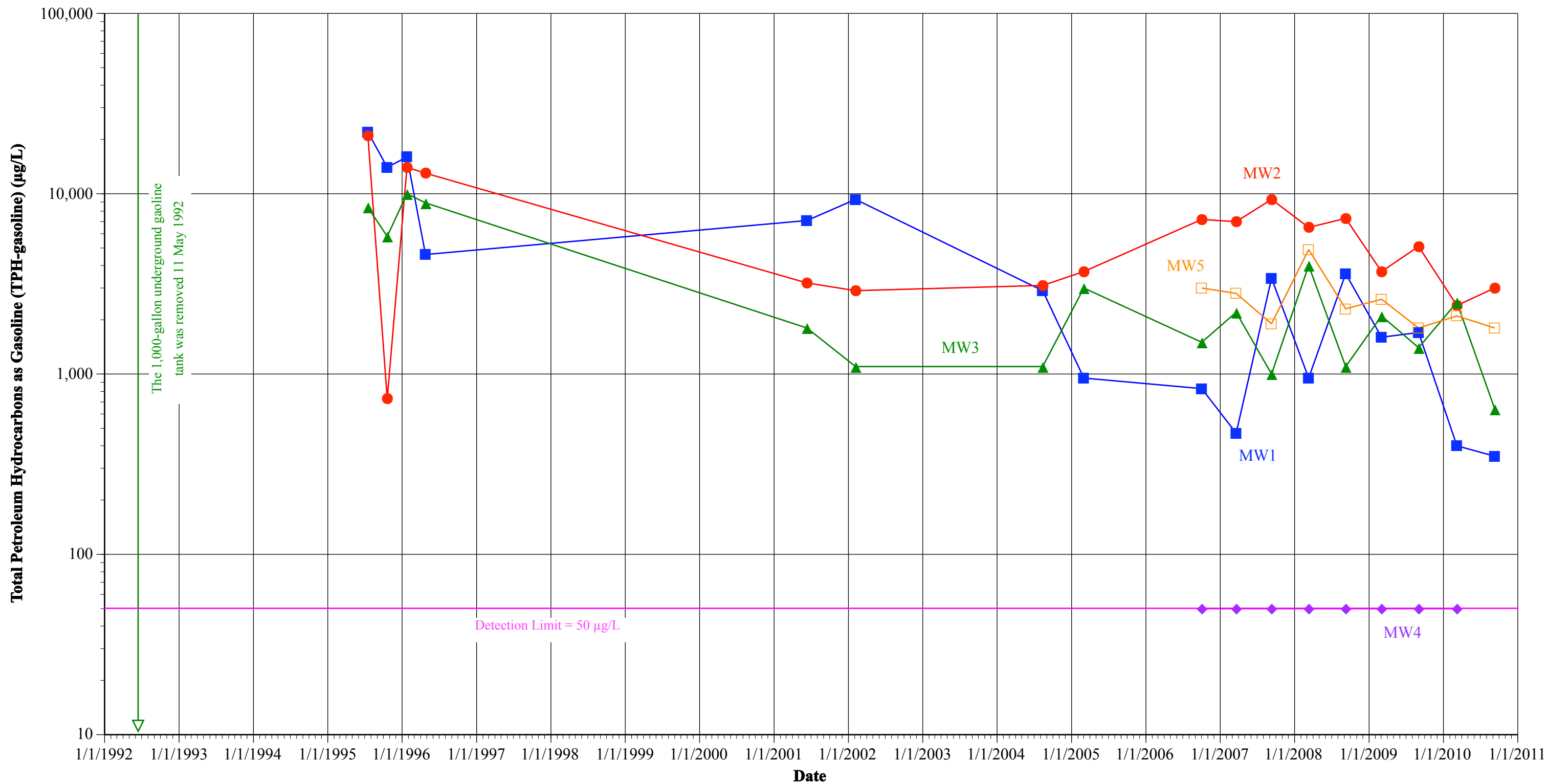


Figure 5
TPH-gasoline Versus Time
in Monitoring Wells
2440 East Eleventh Street
Oakland CA

Notes: (1) Nondetectable measurements have been plotted at the typical detection limit of 50 µg/L.
 (2) Sampling at well MW4 was terminated after March 2010 because of a long history of nondetectable measurements.

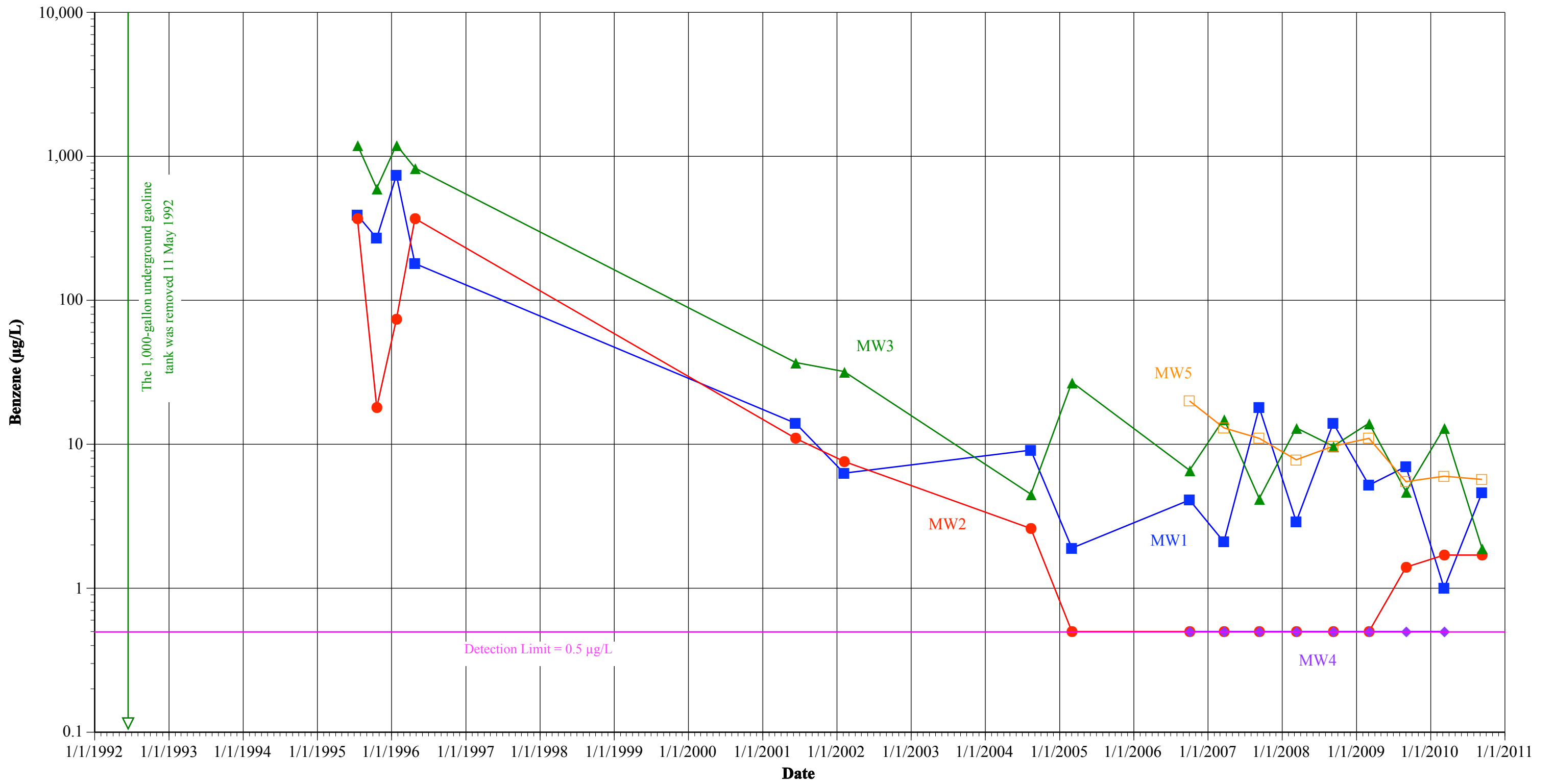



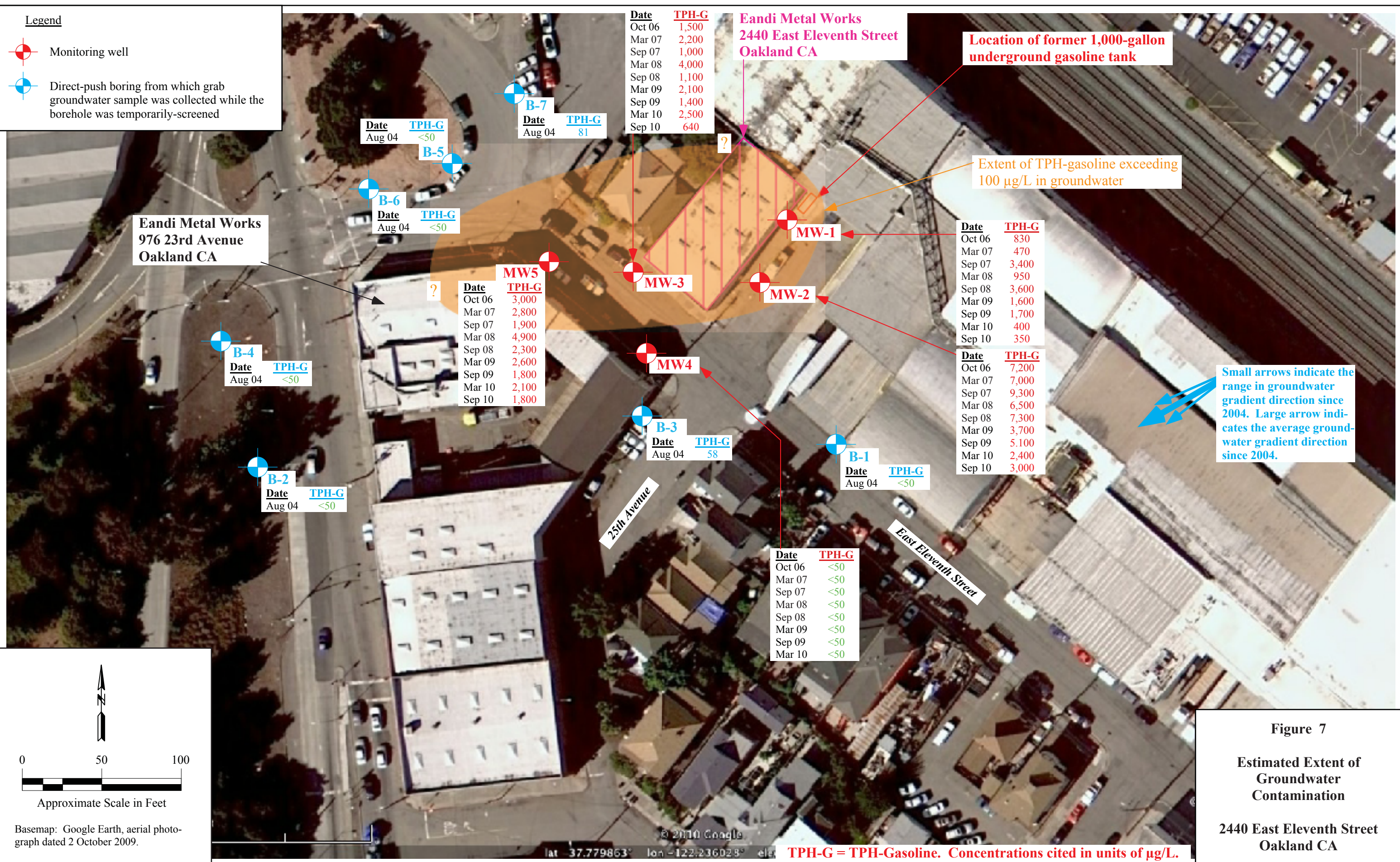
Figure 6
Benzene Versus Time in
Monitoring Wells
2440 East Eleventh Street
Oakland CA

Notes: (1) Nondetectable measurements have been plotted at the typical detection limit of 0.5 µg/L.
 (2) Sampling at well MW4 was terminated after March 2010 because of a long history of nondetectable measurements.

Legend

 Monitoring well

 Direct-push boring from which grab groundwater sample was collected while the borehole was temporarily-screened



Eandi Metal Works
976 23rd Avenue
Oakland CA

Eandi Metal Works
2440 East Eleventh Street
Oakland CA

Location of former 1,000-gallon underground gasoline tank

Extent of TPH-gasoline exceeding 100 µg/L in groundwater

Small arrows indicate the range in groundwater gradient direction since 2004. Large arrow indicates the average groundwater gradient direction since 2004.

Date	TPH-G
Aug 04	<50

Date	TPH-G
Aug 04	81

Date	TPH-G
Oct 06	1,500
Mar 07	2,200
Sep 07	1,000
Mar 08	4,000
Sep 08	1,100
Mar 09	2,100
Sep 09	1,400
Mar 10	2,500
Sep 10	640

Date	TPH-G
Aug 04	<50

Date	TPH-G
Oct 06	3,000
Mar 07	2,800
Sep 07	1,900
Mar 08	4,900
Sep 08	2,300
Mar 09	2,600
Sep 09	1,800
Mar 10	2,100
Sep 10	1,800

Date	TPH-G
Aug 04	<50

Date	TPH-G
Aug 04	<50

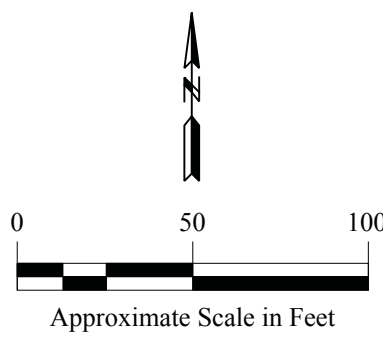
Date	TPH-G
Aug 04	58

Date	TPH-G
Aug 04	<50

Date	TPH-G
Oct 06	830
Mar 07	470
Sep 07	3,400
Mar 08	950
Sep 08	3,600
Mar 09	1,600
Sep 09	1,700
Mar 10	400
Sep 10	350

Date	TPH-G
Oct 06	7,200
Mar 07	7,000
Sep 07	9,300
Mar 08	6,500
Sep 08	7,300
Mar 09	3,700
Sep 09	5,100
Mar 10	2,400
Sep 10	3,000

Date	TPH-G
Oct 06	<50
Mar 07	<50
Sep 07	<50
Mar 08	<50
Sep 08	<50
Mar 09	<50
Sep 09	<50
Mar 10	<50



Basemap: Google Earth, aerial photograph dated 2 October 2009.

Figure 7
Estimated Extent of Groundwater Contamination
2440 East Eleventh Street
Oakland CA

TPH-G = TPH-Gasoline. Concentrations cited in units of µg/L.

ATTACHMENT 1

Groundwater Sampling Forms

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 10 September 2010
Well Number: MW1	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 11.26
Measuring Point: Top of casing, north side	Total Depth: 19.8
Free Product: None	Odor: Strong gasoline odor
Comments:	Sample Number: MW1

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)		Three Casing Volumes (gallons)
19.8	-	11.26	x	0.16	=	1.4	x 3	4.2

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0 0	9:06	1.76	6.76	-	18.5	-	Translucent	brown	no	Start purge
1.4 1.4	9:11	1.03	6.65	-	18.7	-	Clear	none	no	
2.8 2.8	9:15	0.75	6.69	-	18.5	-	Clear	none	no	
4.2	9:22	0.67	6.74	584	18.1	-55.4	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 10 September 2010
Well Number: MW2	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 11.20
Measuring Point: Top of casing, north side	Total Depth: 19.8
Free Product: None	Odor: Strong gasoline odor
Comments:	Sample Number: MW2

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)		Three Casing Volumes (gallons)
19.8	-	11.20	x	0.16	=	1.4	x 3	4.2

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	11:18	0.63	6.80	—	22.0	—	Translucent	grey	no	Start purge
1.4	11:23	0.81	6.74	—	21.5	—	Clear	none	no	
2.8	11:26	0.71	6.74	—	19.9	—	Clear	none	no	
4.2	11:30	0.69	6.77	686	19.2	-79.9	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 10 September 2010
Well Number: MW3	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 11.82
Measuring Point: Top of casing, north side	Total Depth: 19.6
Free Product: None	Odor: Strong gasoline odor
Comments:	Sample Number: MW3

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)	x 3	Three Casing Volumes (gallons)
19.6	-	11.82	x	0.16	=	1.2	x 3	3.6

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	12:08	0.90	6.85	—	21.0	—	Opaque	grey	no	Start purge
1.2	12:10	0.66	6.84	—	20.6	—	Clear	none	no	
2.4	12:12	0.56	6.83	—	19.8	—	Clear	none	no	
3.6	12:15	0.55	6.83	552	19.5	-80.2	Clear	none	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

MONITORING WELL PURGE DATA

Project Name/Number: Eandi Metal Works / P279	Logged By: Alex S. Bowerman
Property Location: 2440 East Eleventh Street, Oakland CA	Date: 10 September 2010
Well Number: MW5	Casing Diameter (in): 2
Purging Equipment: Submersible purge pump	Sample Type: Grab
Sampling Equipment: Bailer equipped with bottom-emptying device	Depth to Water: 11.46
Measuring Point: Top of casing, north side	Total Depth: 17.2
Free Product: None	Odor: Strong gasoline odor
Comments:	Sample Number: MW5

Note obstructions, well damage, or other compromising features under comments. Record depth in feet.

Total Depth (feet)	-	Depth to Water (feet)	x	0.04 gallons/foot for 1-inch well 0.16 gallons/foot for 2-inch well 0.65 gallons/foot for 4-inch well 1.47 gallons/foot for 6-inch well	=	Single Casing Volume (gallons)		Three Casing Volumes (gallons)
17.2	-	11.46	x	0.16	=	0.9	x 3	2.7

Purge Volume (gallons)	Time	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temp (°C)	ORP (mV)	Turbidity	Color	Purged Dry?	Comments
0	10:09	0.75	6.88	-	20.4	-	Clear	none	no	Start purge
1	10:11	0.57	6.88	-	19.8	-	Clear	none	no	
2	10:14	0.54	6.88	-	19.5	-	Clear	none	no	
3	10:17	0.63	6.88	630	19.4	-96.6	Clear	None	no	
										Collect sample

Note observations of odor, sheen, and other signs of contamination under comments. Record turbidity as clear, translucent, opaque, cloudy, or turbid.

ATTACHMENT 2

Laboratory Reports and Chain-of-Custody
Forms

ANALYTICAL REPORT

Job Number: 720-30464-1

Job Description: 2440 East Eleventh Street

For:

Streamborn

900 Santa Fe Avenue

Albany, CA 94706

Attention: Mr. Douglas W Lovell



Approved for release.
Tim Costello
Project Manager I
9/27/2010 10:52 AM

Tim Costello
Project Manager I
tim.costello@testamericainc.com
09/27/2010

CA ELAP Certification # 2496

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

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-30464-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Streamborn

Job Number: 720-30464-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-30464-1	MW1				
Benzene		4.6	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		12	0.50	ug/L	8260B/CA_LUFTMS
Toluene		0.76	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		1.0	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		350	50	ug/L	8260B/CA_LUFTMS
720-30464-2	MW2				
Benzene		1.7	1.0	ug/L	8260B/CA_LUFTMS
Ethylbenzene		160	2.5	ug/L	8260B/CA_LUFTMS
Toluene		2.1	1.0	ug/L	8260B/CA_LUFTMS
Xylenes, Total		10	2.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		3000	100	ug/L	8260B/CA_LUFTMS
720-30464-3	MW3				
Benzene		1.9	0.50	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		640	50	ug/L	8260B/CA_LUFTMS
720-30464-4	MW5				
Benzene		5.7	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		3.6	0.50	ug/L	8260B/CA_LUFTMS
Toluene		0.65	0.50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		2.3	1.0	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		1800	50	ug/L	8260B/CA_LUFTMS

METHOD SUMMARY

Client: Streamborn

Job Number: 720-30464-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Streamborn

Job Number: 720-30464-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-30464-1	MW1	Water	09/10/2010 0922	09/14/2010 1155
720-30464-2	MW2	Water	09/10/2010 1130	09/14/2010 1155
720-30464-3	MW3	Water	09/10/2010 1215	09/14/2010 1155
720-30464-4	MW5	Water	09/10/2010 1017	09/14/2010 1155

Analytical Data

Client: Streamborn

Job Number: 720-30464-1

Client Sample ID: MW1

Lab Sample ID: 720-30464-1

Date Sampled: 09/10/2010 0922

Client Matrix: Water

Date Received: 09/14/2010 1155

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-78132 Instrument ID: HP9
Preparation: 5030B Lab File ID: 09161030.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 09/16/2010 2346 Final Weight/Volume: 10 mL
Date Prepared: 09/16/2010 2346

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	4.6		0.50
Ethylbenzene	12		0.50
Toluene	0.76		0.50
Xylenes, Total	1.0		1.0
Gasoline Range Organics (GRO)-C5-C12	350		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		67 - 130
Toluene-d8 (Surr)	97		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-30464-1

Client Sample ID: MW2

Lab Sample ID: 720-30464-2

Date Sampled: 09/10/2010 1130

Client Matrix: Water

Date Received: 09/14/2010 1155

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-78132 Instrument ID: HP9
Preparation: 5030B Lab File ID: 09161033.D
Dilution: 2.0 Initial Weight/Volume: 10 mL
Date Analyzed: 09/17/2010 0122 Final Weight/Volume: 10 mL
Date Prepared: 09/17/2010 0122

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		1.0
Benzene	1.7		1.0
Toluene	2.1		1.0
Xylenes, Total	10		2.0
Gasoline Range Organics (GRO)-C5-C12	3000		100
TBA	ND		8.0
DIPE	ND		1.0
TAME	ND		1.0
Ethyl t-butyl ether	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		67 - 130
Toluene-d8 (Surr)	96		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-30464-1

Client Sample ID: MW2

Lab Sample ID: 720-30464-2

Date Sampled: 09/10/2010 1130

Client Matrix: Water

Date Received: 09/14/2010 1155

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-78160 Instrument ID: HP4
Preparation: 5030B Lab File ID: 091710021.D
Dilution: 5.0 Initial Weight/Volume: 10 mL
Date Analyzed: 09/17/2010 1914 Final Weight/Volume: 10 mL
Date Prepared: 09/17/2010 1914

Analyte	Result (ug/L)	Qualifier	RL
Ethylbenzene	160		2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	110		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		67 - 130
Toluene-d8 (Surr)	92		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-30464-1

Client Sample ID: MW3

Lab Sample ID: 720-30464-3

Date Sampled: 09/10/2010 1215

Client Matrix: Water

Date Received: 09/14/2010 1155

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-78132 Instrument ID: HP9
Preparation: 5030B Lab File ID: 09161034.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 09/17/2010 0155 Final Weight/Volume: 10 mL
Date Prepared: 09/17/2010 0155

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	1.9		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	640		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		67 - 130
Toluene-d8 (Surr)	97		70 - 130

Analytical Data

Client: Streamborn

Job Number: 720-30464-1

Client Sample ID: MW5

Lab Sample ID: 720-30464-4

Date Sampled: 09/10/2010 1017

Client Matrix: Water

Date Received: 09/14/2010 1155

8260B/CA_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-78132 Instrument ID: HP9
Preparation: 5030B Lab File ID: 09161035.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 09/17/2010 0227 Final Weight/Volume: 10 mL
Date Prepared: 09/17/2010 0227

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	5.7		0.50
Ethylbenzene	3.6		0.50
Toluene	0.65		0.50
Xylenes, Total	2.3		1.0
Gasoline Range Organics (GRO)-C5-C12	1800		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		67 - 130
Toluene-d8 (Surr)	96		70 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
--------------------	------------------	--------------------

Quality Control Results

Client: Streamborn

Job Number: 720-30464-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report			Prep Batch
		Basis	Client Matrix	Method	
GC/MS VOA					
Analysis Batch:720-78132					
LCS 720-78132/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-78132/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-78132/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-78132/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-78132/4	Method Blank	T	Water	8260B/CA_LUFT	
720-30464-1	MW1	T	Water	8260B/CA_LUFT	
720-30464-1MS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-30464-1MSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-30464-2	MW2	T	Water	8260B/CA_LUFT	
720-30464-3	MW3	T	Water	8260B/CA_LUFT	
720-30464-4	MW5	T	Water	8260B/CA_LUFT	
Analysis Batch:720-78160					
LCS 720-78160/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-78160/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-78160/4	Method Blank	T	Water	8260B/CA_LUFT	
720-30464-2	MW2	T	Water	8260B/CA_LUFT	

Report Basis

T = Total

Quality Control Results

Client: Streamborn

Job Number: 720-30464-1

Method Blank - Batch: 720-78132

Lab Sample ID: MB 720-78132/4
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 09/16/2010 2314
 Date Prepared: 09/16/2010 2314

Analysis Batch: 720-78132
 Prep Batch: N/A
 Units: ug/L

**Method: 8260B/CA_LUFTMS
 Preparation: 5030B**

Instrument ID: HP9
 Lab File ID: 09161029.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	91	67 - 130	
1,2-Dichloroethane-d4 (Surr)	95	67 - 130	
Toluene-d8 (Surr)	93	70 - 130	

Quality Control Results

Client: Streamborn

Job Number: 720-30464-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-78132**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-78132/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2010 2105
Date Prepared: 09/16/2010 2105

Analysis Batch: 720-78132
Prep Batch: N/A
Units: ug/L

Instrument ID: HP9
Lab File ID: 09161025.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-78132/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2010 2137
Date Prepared: 09/16/2010 2137

Analysis Batch: 720-78132
Prep Batch: N/A
Units: ug/L

Instrument ID: HP9
Lab File ID: 09161026.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	102	103	62 - 130	0.7	20		
Benzene	105	104	82 - 127	0.5	20		
Ethylbenzene	102	102	86 - 135	0.05	20		
Toluene	104	104	83 - 129	0.1	20		
TBA	92	91	82 - 116	0.9	20		
DIPE	105	105	74 - 155	0.4	20		
TAME	109	110	79 - 129	0.02	20		
Ethyl t-butyl ether	98	99	70 - 130	0.6	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	95		97		67 - 130		
1,2-Dichloroethane-d4 (Surr)	92		89		67 - 130		
Toluene-d8 (Surr)	95		95		70 - 130		

Quality Control Results

Client: Streamborn

Job Number: 720-30464-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-78132**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-78132/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2010 2210
Date Prepared: 09/16/2010 2210

Analysis Batch: 720-78132
Prep Batch: N/A
Units: ug/L

Instrument ID: HP9
Lab File ID: 09161027.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-78132/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2010 2242
Date Prepared: 09/16/2010 2242

Analysis Batch: 720-78132
Prep Batch: N/A
Units: ug/L

Instrument ID: HP9
Lab File ID: 09161028.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	92	90	59 - 111	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	97		96		67 - 130		
1,2-Dichloroethane-d4 (Surr)	96		94		67 - 130		
Toluene-d8 (Surr)	95		96		70 - 130		

Quality Control Results

Client: Streamborn

Job Number: 720-30464-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-78132**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

MS Lab Sample ID: 720-30464-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2010 0018
Date Prepared: 09/17/2010 0018

Analysis Batch: 720-78132
Prep Batch: N/A

Instrument ID: HP9
Lab File ID: 09161031.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30464-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2010 0051
Date Prepared: 09/17/2010 0051

Analysis Batch: 720-78132
Prep Batch: N/A

Instrument ID: HP9
Lab File ID: 09161032.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methyl tert-butyl ether	110	106	60 - 138	4	20		
Benzene	111	103	60 - 140	7	20		
Ethylbenzene	103	93	60 - 140	7	20		
Toluene	105	100	60 - 140	5	20		
TBA	92	94	60 - 140	2	20		
DIPE	115	109	60 - 140	5	20		
TAME	112	109	60 - 140	2	20		
Ethyl t-butyl ether	104	100	60 - 140	4	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	96		94		67 - 130		
1,2-Dichloroethane-d4 (Surr)	97		96		67 - 130		
Toluene-d8 (Surr)	96		97		70 - 130		

Quality Control Results

Client: Streamborn

Job Number: 720-30464-1

Method Blank - Batch: 720-78160

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

Lab Sample ID: MB 720-78160/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2010 0942
Date Prepared: 09/17/2010 0942

Analysis Batch: 720-78160
Prep Batch: N/A
Units: ug/L

Instrument ID: HP4
Lab File ID: 091710004.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Ethylbenzene	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	87	67 - 130	
1,2-Dichloroethane-d4 (Surr)	102	67 - 130	
Toluene-d8 (Surr)	79	70 - 130	

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-78160**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-78160/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2010 1028
Date Prepared: 09/17/2010 1028

Analysis Batch: 720-78160
Prep Batch: N/A
Units: ug/L

Instrument ID: HP4
Lab File ID: 091710005.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-78160/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2010 1100
Date Prepared: 09/17/2010 1100

Analysis Batch: 720-78160
Prep Batch: N/A
Units: ug/L

Instrument ID: HP4
Lab File ID: 091710006.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	102	103	86 - 135	0.6	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	109		104		67 - 130		
1,2-Dichloroethane-d4 (Surr)	96		91		67 - 130		
Toluene-d8 (Surr)	88		88		70 - 130		

Login Sample Receipt Check List

Client: Streamborn

Job Number: 720-30464-1

Login Number: 30464

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	