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Alameda County
Environmental Health

Alameda-Contra Costa Transit District

May 22, 2009

Mr. Stephen Plunkett
Alameda County Health Division
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

Dear Mr. Plunkett:

Subject: Groundwater Monitoring Report – May 2009
AC Transit, 1177 47th Street, Emeryville

AC Transit hereby submits the enclosed groundwater monitoring report for the AC Transit facility located at 1177 47th Street in Emeryville. The report was prepared by our consultant, Cameron-Cole, and contains the results of groundwater monitoring performed on March 24, 2009, from sixteen (16) on-site and three (3) off-site wells. Well MW-13 was measured to have 0.36 feet of free product and was not sampled for chemical analysis.

Sampling results indicated gasoline-range hydrocarbons was present in seven wells at concentrations ranging from 62.9 ppb in well MW-16 to 3,850 ppb in well W-1. Diesel-range hydrocarbons were found in three wells: 2,610 ppb in well MW-6; 948 ppb in well MW-10; and, 637 ppb in well W-1. Benzene was detected above the Maximum Contaminant Level (MCL) of 1.0 ppb in MW-6 (8.9 ppb) and W-1 (10.9 ppb).

The results of the downgradient subsurface investigation conducted in December 2008 through March 2009 by Cameron-Cole is contained in the report, "Downgradient Subsurface Investigation Report for the AC Transit 1177 47th Street Facility," dated May 2009. The next quarterly groundwater monitoring event is scheduled to take place in June 2009.

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.

If you have any questions or comments regarding the enclosed report, please call me at (510) 577-8869.

Sincerely,

Suzanne Chaewsky, P.E.
Environmental Engineer

Enclosure

GROUNDWATER MONITORING REPORT FOR THE AC TRANSIT FACILITY LOCATED AT 1177 47th STREET, EMERYVILLE, CALIFORNIA

May 2009

Prepared For:

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Oakland, California 94603

Prepared By:

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GROUNDWATER MONITORING REPORT FOR THE AC TRANSIT FACILITY LOCATED AT 1177 47th STREET, EMERYVILLE, CALIFORNIA

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Written By
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INTRODUCTION

This report presents the results from the March 2009 first quarter sampling event for the AC Transit Facility located at 1177 47th Street, Emeryville, California (Figure 1, Site Location Map). Cameron-Cole performed groundwater sampling of monitor wells MW-1 through MW-12 and W-1 in accordance with directives from Alameda County Health Care Services (ACHCS). ACHCS requested quarterly groundwater sampling for monitor wells MW-11, MW-12, and MW-13, and semi-annual groundwater sampling of monitor wells MW-1 through MW-13 and W-1. In addition, three new downgradient monitor wells MW-14, MW-15, and MW-16, established in accordance with the "Workplan for Downgradient Subsurface Investigation," September 2006, were also sampled for this event.

GROUNDWATER MONITORING

Work performed during this sampling event included measuring depth to water in all monitoring wells and collecting groundwater samples from monitor wells MW-1 through MW-12, MW-14 through MW-16, and MW-1. A groundwater sample was not collected from MW-13 due to the presence of a free-phase hydrocarbon layer. Groundwater samples were analyzed for total extractable petroleum hydrocarbons (TEPH) using Environmental Protection Agency (EPA) Method 8015 Modified, and for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B.

A site map displaying the monitor well locations is presented as Figure 2. Chain-of-custody documents, field data sheets, and certified analytical reports are included in Appendix A.

Groundwater Elevations and Flow Direction

On March 24, 2009, all 19 (16 on-site and 3 off-site) monitor wells (MW-1 through MW-16, W-1, W-3, and W-4) were inspected and measured for the presence of free-phase hydrocarbons and depth to groundwater. Measurements of depths to groundwater are presented in Table 1 and were used to construct the groundwater elevation contours in Figure 2. As shown, groundwater flow is to the west

at a gradient of 0.028 feet/foot. Monitor well MW-13 was the only well with a free-phase hydrocarbon layer detected. The free-phase hydrocarbon layer in MW-13 measured 0.36 feet.

Groundwater Sampling Activities

The monitor wells were purged a minimum of three casing volumes using a centrifugal pump and samples were collected using disposable polyethylene bailers. During well purging, field parameters for temperature, electrical conductivity, pH, turbidity, dissolved oxygen, oxidation-reduction potential, and ferrous iron were monitored using calibrated field meters. Due to the presence of the hydrocarbon layer measured in monitor well MW-13, a groundwater sample was not collected. However, MW-13 was purged to remove the product layer, an activity that will be repeated monthly as an interim remedial measure.

Groundwater samples were collected in 40-milliliter glass vials preserved with hydrochloric acid and one-liter non-preserved amber glass containers and placed in an ice-filled cooler for shipment under chain-of-custody to a State of California certified laboratory. A trip blank was submitted for analysis by EPA Method 8260B.

Groundwater Analytical Results

Table 2 presents groundwater analytical results for the March 2009 sampling event. TPH as degraded diesel was detected in monitor wells MW-6, MW-10, and W-1. TPH as degraded gasoline was detected in MW-6, MW-7, MW-8, MW-10, MW-12, MW-16, and W-1. Benzene was detected above the State of California maximum contaminant level (MCL) of 1.0 microgram per liter (ug/l) in MW-6 and W-1. MTBE was detected above the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESL) of 5 ug/l in wells MW-14, MW-15, and MW-16, but below the MCL of 13 ug/l in all monitor wells. No analytes were detected in the trip blank or method blank. A lab control spike and lab control spike duplicate passed the EPA's criteria for acceptance.

SUMMARY OF RESULTS

- Groundwater flow is to the west at a gradient of 0.028 feet/foot.
- TPH as degraded diesel was detected in MW-6 (2,610 ug/l), MW-10 (948 ug/l) and W-1 (637 ug/l).
- TPH as degraded gasoline was detected in MW-6 (785 ug/l), MW-7 (529 ug/l), MW-8 (72.8 ug/l), MW-10 (173 ug/l), MW-12 (89.0 ug/l), MW-16 (62.9) and W-1 (3,850 ug/l).
- Benzene was detected above the MCL of 1.0 ug/l in MW-6 (8.9 ug/l) and W-1 (10.9 ug/l).
- MTBE was detected above the ESL of 5 ug/l in MW-14 (5.8 ug/l), MW-15 (5.0 ug/l) and MW-16 (10.3 ug\l).

PROJECTED WORK AND RECOMMENDATIONS

- Monthly over purging of MW-13 is scheduled to remove the free-phase hydrocarbon layer. Quarterly groundwater monitoring of monitor wells MW-11 through MW-16 is scheduled for June 2009. This event will include site-wide depth to groundwater level measurements including inspection of each monitor well for free-phase hydrocarbon.
- The results of the downgradient subsurface investigation conducted in December 2008 through March 2009 are presented in a report to be submitted in May 2009.

FIGURES

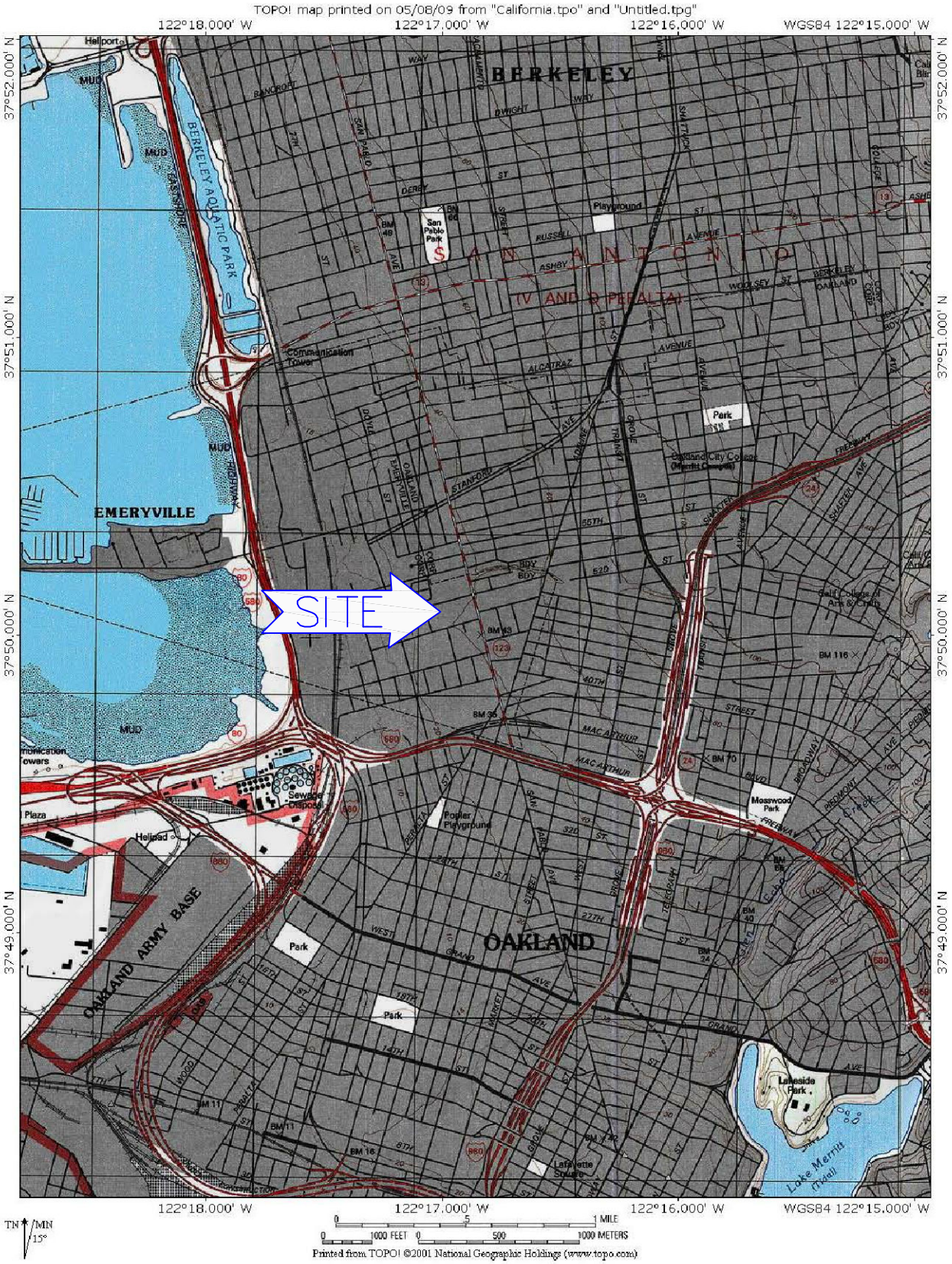

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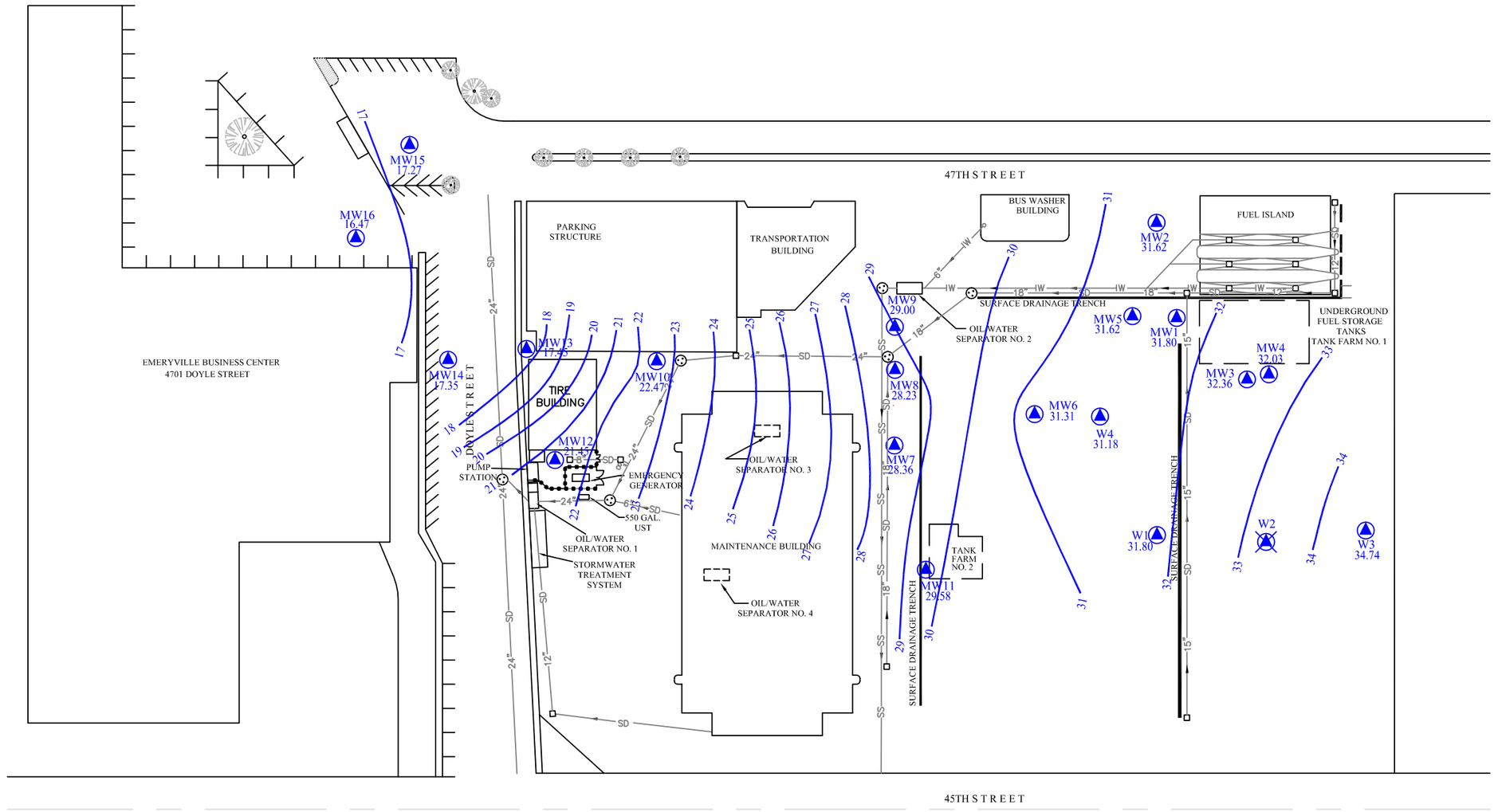
FIGURE 1

SITE LOCATION MAP
AC TRANSIT – EMERYVILLE
EMERYVILLE, CALIFORNIA

SCALE:	DATE:
AS NOTED	05–08–09

2036–003A



LEGEND

- MANHOLE
- CATCH BASIN
- MONITOR WELL
- ABANDONED MONITOR WELL
- 17.35 — POTENTIOMETRIC SURFACE ELEVATION
- POTENTIOMETRIC SURFACE CONTOUR
- PROPOSED SOIL BORING
- SD — STORM DRAIN PIPELINE
- SS — SANITARY SEWER PIPELINE
- IW — INDUSTRIAL WASTE PIPELINE
- CHAIN LINK FENCE

0 100
FEET

	BY	DATE
DRAWN	SPS	4/07/09
CHECKED		
APPROVED		
APPROVED		
APPROVED		

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FIGURE 2
POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 24, 2009
AC TRANSIT, EMERYVILLE FACILITY - OAKLAND, CA

SCALE: 1" = 100'

DWG. NO.: 2030-002A

TABLES

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-1	8/31/1999	32.56	None	3.24	29.32	NA
	11/23/1999		None	4.55	28.01	NA
	3/1/2000		None	3.65	28.91	NA
	5/17/2000		None	4.08	28.48	NA
	8/30/2000		None	5.18	27.38	NA
	12/18/2000		None	4.86	27.7	NA
	3/20/2001		None	4.22	28.34	NA
	6/7/2001		None	4.88	27.68	NA
	9/20/2001		None	4.97	27.59	NA
	12/14/2001		None	3.59	28.97	NA
	2/27/2002		None	4.03	28.53	NA
	5/16/2002		None	4.32	28.24	NA
	9/18/2002		None	4.61	27.95	NA
	10/30/2002		None	4.74	27.82	NA
	2/6/2003		None	4.08	28.48	NA
	5/1/2003		None	3.68	28.88	NA
	8/26/2003		None	4.64	27.92	NA
	11/20/2003		None	4.57	27.99	NA
	2/10/2004		None	3.95	28.61	NA
	5/18/2004		None	4.45	28.11	NA
	8/30/2004		None	5.14	27.42	NA
	11/17/2004		None	4.2	28.36	NA
	2/23/2005		None	3.55	29.01	NA
	11/2/2005**		None	5.14	27.42	NA
	5/28/2006**		None	4.05	28.51	NA
	11/12/2006**		None	3.36	29.20	NA
	5/27/2007**		None	4.90	27.66	NA
	11/10/2007**		None	4.65	27.91	NA
	5/25/2008**		None	4.65	27.91	NA
	3/24/2009	**35.66**	**None**	**3.86**	**31.80**	**NA**
MW-2	8/31/1999	32.12	None	5.24	26.88	NA
	11/23/1999		None	4.03	28.09	NA
	3/1/2000		None	3.11	29.01	NA
	5/17/2000		None	3.66	28.46	NA
	8/30/2000		None	4.65	27.47	NA
	12/18/2000		None	4.06	28.06	NA
	3/20/2001		None	3.91	28.21	NA
	6/7/2001		None	4.40	27.72	NA
	9/20/2001		None	4.45	27.67	NA
	12/14/2001		None	3.19	28.93	NA
	2/27/2002		None	3.45	28.67	NA
	5/16/2002		None	3.74	28.38	NA
	9/18/2002		None	4.20	27.92	NA
	10/30/2002		None	4.23	27.89	NA
	2/6/2003		None	3.70	28.42	NA
	5/1/2003		None	3.59	28.53	NA
	8/26/2003		None	4.24	27.88	NA
	11/20/2003		None	4.35	27.77	NA
	2/10/2004		None	3.61	28.51	NA
	5/18/2004		None	3.91	28.21	NA
	8/30/2004		None	4.62	27.50	NA
	11/17/2004		None	3.91	28.21	NA
	2/23/2005		None	3.05	29.07	NA
	11/2/2005**		None	4.65	27.47	NA
	5/28/2006**		None	3.55	28.57	NA
	11/16/2006**		None	3.60	28.52	NA
	5/27/2007**		None	3.73	28.39	NA
	11/10/2007**		None	4.20	27.92	NA
	5/25/2008**		None	4.10	28.02	NA
	3/24/2009	**35.14**	**None**	**3.52**	**31.62**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-3	8/31/1999	34.06	None	6.15	27.91	NA
	11/23/1999		None	5.78	28.28	NA
	3/1/2000		None	4.82	29.24	NA
	5/17/2000		None	5.29	28.77	NA
	8/30/2000		None	6.20	27.86	NA
	12/18/2000		None	5.65	28.41	NA
	3/20/2001		None	5.18	28.88	NA
	6/7/2001		None	6.01	28.05	NA
	9/20/2001		None	5.9	28.16	NA
	12/14/2001		None	4.66	29.40	NA
	2/27/2002		None	5.00	29.06	NA
	5/16/2002		None	5.21	28.85	NA
	9/18/2002		None	5.61	28.45	NA
	10/30/2002		None	5.72	28.34	NA
	2/6/2003		None	4.97	29.09	NA
	5/1/2003		None	4.89	29.17	NA
	8/26/2003		None	5.82	28.24	NA
	11/20/2003		None	5.92	28.14	NA
	2/10/2004		None	4.99	29.07	NA
	5/18/2004		None	5.52	28.54	NA
	8/30/2004		None	6.25	27.81	NA
	11/17/2004		None	5.25	28.81	NA
	2/23/2005		None	4.80	29.26	NA
	11/2/2005**		None	6.21	27.85	NA
	5/28/2006**		None	4.95	29.11	NA
	11/16/2006**		None	5.50	28.56	NA
	5/27/2007**		None	5.28	28.78	NA
	11/10/2007**		None	5.75	28.31	NA
	5/25/2008**		None	5.70	28.36	NA
	3/24/2009	**37.15**	**None**	**4.79**	**32.36**	**NA**
MW-4	8/31/1999	34.11	None	6.22	27.89	NA
	11/23/1999		None	6.01	28.10	NA
	3/1/2000		None	4.74	29.37	NA
	5/17/2000		None	5.33	28.78	NA
	8/30/2000		None	6.26	27.85	NA
	12/18/2000		None	5.66	28.45	NA
	3/20/2001		None	5.46	28.65	NA
	6/7/2001		None	6.02	28.09	NA
	9/20/2001		None	6.06	28.05	NA
	12/14/2001		None	5.39	28.72	NA
	2/27/2002		None	5.28	28.83	NA
	5/16/2002		None	5.39	28.72	NA
	9/18/2002		None	5.61	28.50	NA
	10/30/2002		None	5.70	28.41	NA
	2/6/2003		None	5.39	28.72	NA
	5/1/2003		None	5.25	28.86	NA
	8/26/2003		None	5.88	28.23	NA
	11/20/2003		None	5.84	28.27	NA
	2/10/2004		None	5.10	29.01	NA
	5/18/2004		None	5.58	28.53	NA
	8/30/2004		None	6.30	27.81	NA
	11/17/2004		None	5.34	28.77	NA
	2/23/2005		None	4.75	29.36	NA
	11/2/2005**		None	6.30	27.81	NA
	5/28/2006**		None	5.15	28.96	NA
	11/16/2006**		None	5.40	28.71	NA
	5/27/2007**		None	5.61	28.50	NA
	11/10/2007**		None	5.85	28.26	NA
	5/25/2008**		None	5.80	28.31	NA
	3/24/2009	**37.15**	**None**	**5.12**	**32.03**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-5	8/31/1999	31.70	None	4.51	27.19	NA
	11/23/1999		None	4.00	27.70	NA
	3/1/2000		None	3.31	28.39	NA
	5/17/2000		None	3.59	28.11	NA
	8/30/2000		None	4.53	27.17	NA
	12/18/2000		None	3.97	27.73	NA
	3/20/2001		None	3.68	28.02	NA
	6/7/2001		None	4.37	27.33	NA
	9/20/2001		None	4.46	27.24	NA
	12/14/2001		None	3.23	28.47	NA
	2/27/2002		None	3.44	28.26	NA
	5/16/2002		None	3.68	28.02	NA
	9/18/2002		None	4.04	27.66	NA
	10/30/2002		None	4.21	27.49	NA
	2/6/2003		None	3.61	28.09	NA
	5/1/2003		None	3.15	28.55	NA
	8/26/2003		None	4.00	27.70	NA
	11/20/2003		None	4.20	27.50	NA
	2/10/2004		None	3.38	28.32	NA
	5/18/2004		None	3.75	27.95	NA
	8/30/2004		None	4.55	27.15	NA
	11/17/2004		None	3.62	28.08	NA
	2/23/2005		None	2.98	28.72	NA
	11/2/2005**		None	4.55	27.15	NA
	5/28/2006**		None	3.62	28.08	NA
	11/12/2006**		None	2.50	29.20	NA
	5/27/2007**		None	3.64	28.06	NA
	11/10/2007**		None	4.10	27.60	NA
	5/25/2008**		None	4.05	27.65	NA
	3/24/2009	**34.84**	**None**	**3.22**	**31.62**	**NA**
MW-6	8/31/1999	31.02	None	4.40	26.62	NA
	11/23/1999		None	3.81	27.21	NA
	3/1/2000		None	2.88	28.14	NA
	5/17/2000		None	3.44	27.58	NA
	8/30/2000		None	4.40	26.62	NA
	12/18/2000		None	3.61	27.41	NA
	3/20/2001		None	3.16	27.86	NA
	6/7/2001		None	4.18	26.84	NA
	9/20/2001		Sheen	4.22	26.80	NA
	12/14/2001		None	3.62	27.40	NA
	2/27/2002		None	2.94	28.08	NA
	5/16/2002		None	3.53	27.49	NA
	9/18/2002		None	3.97	27.05	NA
	10/30/2002		None	3.96	27.06	NA
	2/6/2003		None	2.97	28.05	NA
	5/1/2003		None	3.98	27.04	NA
	8/26/2003		None	3.82	27.20	NA
	11/20/2003		None	3.78	27.24	NA
	2/10/2004		None	2.94	28.08	NA
	5/18/2004		None	3.47	27.55	NA
	8/30/2004		None	4.22	26.80	NA
	11/17/2004		None	3.19	27.83	NA
	2/23/2005		None	2.32	28.70	NA
	11/2/2005**		None	4.21	26.81	NA
	5/28/2006**		None	3.00	28.02	NA
	11/16/2006**		None	3.30	27.72	NA
	5/27/2007**		None	3.20	27.82	NA
	11/10/2007**		None	3.65	27.37	NA
	5/25/2008**		None	3.70	27.32	NA
	3/24/2007	**34.09**	**None**	**2.78**	**31.31**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-7	8/31/1999	29.62	None	5.47	24.15	NA
	11/23/1999		None	4.93	24.69	NA
	3/1/2000		None	4.06	25.56	NA
	5/17/2000		None	4.69	24.93	NA
	8/30/2000		None	5.50	24.12	NA
	12/18/2000		None	5.78	23.84	NA
	3/20/2001		None	4.83	24.79	NA
	6/7/2001		None	4.80	24.82	NA
	9/20/2001		None	5.19	24.43	NA
	12/14/2001		None	4.68	24.94	NA
	2/27/2002		None	4.53	25.09	NA
	5/16/2002		None	4.34	25.28	NA
	9/18/2002		None	5.28	24.34	NA
	10/30/2002		None	5.51	24.11	NA
	2/6/2003		None	4.36	25.26	NA
	5/1/2003		None	4.76	24.86	NA
	8/26/2003		None	5.25	24.37	NA
	11/20/2003		None	5.26	24.36	NA
	2/10/2004		None	4.31	25.31	NA
	5/18/2004		None	4.46	25.16	NA
	8/30/2004		None	5.61	24.01	NA
	11/17/2004		None	4.82	24.80	NA
	2/23/2005		None	4.14	25.48	NA
	11/2/2005**		None	5.50	24.12	NA
	5/28/2006**		None	4.25	25.37	NA
	11/16/2006**		None	5.70	23.92	NA
	5/27/2007**		None	4.54	25.08	NA
	11/10/2007**		None	5.15	24.47	NA
	5/25/2008**		None	5.40	24.22	NA
	3/24/2009	**32.67**	**None**	**4.31**	**28.36**	**NA**
MW-8	8/31/1999	29.43	None	5.35	24.08	NA
	11/23/1999		None	4.75	24.68	NA
	3/1/2000		None	4.48	24.95	NA
	5/17/2000		None	4.78	24.65	NA
	8/30/2000		None	5.02	24.41	NA
	12/18/2000		None	5.23	24.20	NA
	3/20/2001		None	4.70	24.73	NA
	6/7/2001		None	5.13	24.30	NA
	9/20/2001		None	5.68	23.75	NA
	12/14/2001		None	4.26	25.17	NA
	2/27/2002		None	4.18	25.25	NA
	5/16/2002		None	4.58	24.85	NA
	9/18/2002		None	4.96	24.47	NA
	10/30/2002		None	4.99	24.44	NA
	2/6/2003		None	4.41	25.02	NA
	5/1/2003		None	4.29	25.14	NA
	8/26/2003		None	4.58	24.85	NA
	11/20/2003		None	4.69	24.74	NA
	2/10/2004		None	4.22	25.21	NA
	5/18/2004		None	4.52	24.91	NA
	8/30/2004		None	4.79	24.64	NA
	11/17/2004		None	4.56	24.87	NA
	2/23/2005		None	4.08	25.35	NA
	11/2/2005**		None	5.05	24.38	NA
	5/28/2006**		None	4.95	24.48	NA
	11/12/2006**		None	4.70	24.73	NA
	5/27/2007**		None	4.08	25.35	NA
	11/10/2007**		None	4.70	24.73	NA
	5/25/2008**		None	4.70	24.73	NA
	3/24/2009	**32.44**	**None**	**4.21**	**28.23**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-9	8/31/1999	29.18	None	4.15	25.03	NA
	11/23/1999		None	3.93	25.25	NA
	3/1/2000		None	3.69	25.49	NA
	5/17/2000		None	3.56	25.62	NA
	8/30/2000		None	4.64	24.54	NA
	12/18/2000		None	4.02	25.16	NA
	3/20/2001		None	3.92	25.26	NA
	6/7/2001		None	4.28	24.90	NA
	9/20/2001		None	5.12	24.06	NA
	12/14/2001		None	3.87	25.31	NA
	2/27/2002		None	4.48	24.70	NA
	5/16/2002		None	5.13	24.05	NA
	9/18/2002		None	4.48	24.70	NA
	10/30/2002		None	3.90	25.28	NA
	2/6/2003		None	3.65	25.53	NA
	5/1/2003		None	4.50	24.68	NA
	8/26/2003		None	4.33	24.85	NA
	11/20/2003		None	3.83	25.35	NA
	2/10/2004		None	3.17	26.01	NA
	5/18/2004		None	3.42	25.76	NA
	8/30/2004		None	3.45	25.73	NA
	11/17/2004		None	3.44	25.74	NA
	2/23/2005		None	3.28	25.90	NA
	11/2/2005**		None	4.26	24.92	NA
	5/28/2006**		None	3.70	25.48	NA
	11/12/2006**		None	3.50	25.68	NA
	5/27/2007**		None	3.43	25.75	NA
	11/10/2007**		None	3.75	25.43	NA
	5/25/2008**		None	2.80	26.38	NA
	3/24/2009	**32.31**	**None**	**3.31**	**29.00**	**NA**
MW-10	8/31/1999	29.13	None	9.59	19.54	NA
	11/23/1999		None	9.44	19.69	NA
	3/1/2000		None	9.06	20.07	NA
	5/17/2000		None	9.31	19.82	NA
	8/30/2000		None	9.68	19.45	NA
	12/18/2000		None	9.41	19.72	NA
	3/20/2001		None	9.23	19.90	NA
	6/7/2001		None	9.60	19.53	NA
	9/20/2001		None	9.70	19.43	NA
	12/14/2001		None	8.83	20.30	NA
	2/27/2002		None	9.15	19.98	NA
	5/16/2002		None	9.45	19.68	NA
	9/18/2002		None	9.65	19.48	NA
	10/30/2002		None	9.73	19.40	NA
	2/6/2003		None	9.34	19.79	NA
	5/1/2003		None	9.14	19.99	NA
	8/26/2003		None	9.69	19.44	NA
	11/20/2003		None	9.62	19.51	NA
	2/10/2004		None	9.20	19.93	NA
	5/18/2004		None	9.58	19.55	NA
	8/30/2004		None	9.85	19.28	NA
	11/17/2004		None	9.26	19.87	NA
	2/23/2005		None	8.60	20.53	NA
	11/2/2005**		None	9.81	19.32	NA
	5/28/2006**		None	9.55	19.58	NA
	11/16/2006**		**Well not accessible.**			
	2/24/2007**		None	9.00	20.13	NA
	5/27/2007**		None	9.45	19.68	NA
	11/10/2007**		None	9.70	19.43	NA
	5/25/2008**		None	10.15	18.98	NA
	3/24/2009	**31.92**	**None**	**9.45**	**22.47**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-11	9/20/2001	28.93	None	4.41	24.52	NA
	12/14/2001		None	1.82	27.11	NA
	2/27/2002		None	2.39	26.54	NA
	5/16/2002		None	2.98	25.95	NA
	9/18/2002		None	4.00	24.93	NA
	10/30/2002		None	4.14	24.79	NA
	2/6/2003		None	2.59	26.34	NA
	5/1/2003		None	2.26	26.67	NA
	8/26/2003		None	3.79	25.14	NA
	11/20/2003		None	3.66	25.27	NA
	2/10/2004		None	2.40	26.53	NA
	5/18/2004		None	3.20	25.73	NA
	8/30/2004		None	4.43	24.50	NA
	11/17/2004		None	2.36	26.57	NA
	2/23/2005		None	2.05	26.88	NA
	11/2/2005**		None	4.30	24.63	NA
	2/22/2006**		None	2.50	26.43	NA
	5/28/2006**		None	2.85	26.08	NA
	8/27/2006**		None	3.00	25.93	NA
	11/12/2006**		None	3.02	25.91	NA
	2/24/2007**		None	2.15	26.78	NA
	5/27/2007**		None	2.78	26.15	NA
	9/2/2007**		None	4.20	24.73	NA
	11/10/2007**		None	3.30	25.63	NA
	2/28/2008**		None	2.31	26.62	NA
	5/25/2008**		None	3.70	25.23	NA
	11/2/2008**		None	2.98	25.95	NA
	3/24/2009	**31.95**	**None**	**2.37**	**29.58**	**NA**
MW-12	9/20/2001	28.68	None	10.41	18.27	NA
	12/14/2001		None	9.62	19.06	NA
	2/27/2002		None	10.09	18.59	NA
	5/16/2002		None	10.04	18.64	NA
	9/18/2002		None	10.66	18.02	NA
	10/30/2002		None	10.62	18.06	NA
	2/6/2003		None	9.97	18.71	NA
	5/1/2003		None	9.78	18.90	NA
	8/26/2003		None	10.70	17.98	NA
	11/20/2003		None	10.53	18.15	NA
	2/10/2004		None	9.80	18.88	NA
	5/18/2004		None	10.13	18.55	NA
	8/30/2004		None	10.32	18.36	NA
	11/17/2004		None	9.91	18.77	NA
	2/23/2005		None	9.29	19.39	NA
	11/2/2005**		None	10.76	17.92	NA
	2/22/2006**		None	10.50	18.18	NA
	5/28/2006**		None	10.82	17.86	NA
	8/27/2006**		None	10.50	18.18	NA
	11/16/2006**		None	10.80	17.88	NA
	2/24/2007**		None	10.30	18.38	NA
	5/27/2007**		None	10.88	17.80	NA
	9/2/2007**		None	10.70	17.98	NA
	11/10/2007**		None	10.90	17.78	NA
	2/28/2008**		None	11.35	17.33	NA
	5/25/2008**		None	11.80	16.88	NA
	11/2/2008**		None	10.50	18.18	NA
	3/24/2009	**31.76**	**None**	**10.31**	**21.45**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
MW-13	9/20/2001	22.715	None	8.83	13.89	NA
	12/14/2001		None	7.95	14.77	NA
	2/27/2002		None	7.64	15.08	NA
	5/16/2002		None	8.43	14.29	NA
	9/18/2002		6.86	15.09	7.63	13.11
	10/30/2002		6.04	14.29	8.43	13.26
	2/6/2003		0.09	8.25	14.47	14.54
	5/1/2003		0.24	7.29	15.43	15.62
	8/26/2003		0.39	9.70	13.02	13.33
	11/20/2003		0.85	9.85	12.87	13.55
	2/10/2004		0.88	10.59	12.13	12.83
	5/18/2004		0.92	10.70	12.02	12.75
	8/30/2004		1.06	9.36	13.36	14.20
	11/17/2004		0.25	9.74	12.98	13.18
	2/23/2005		0.07	6.49	16.23	16.28
	11/2/2005**		0.063	9.10	13.62	13.67
	2/22/2006**		0.167	NM	NM	NM
	5/28/2006**		NM	NM	NM	NM
	11/16/2006**		0.017	NM	NM	NM
	5/27/2007**		0.045	9.45	13.27	13.30
	9/2/2007**		1.1	10.30	12.42	13.30
	11/10/2007**		1.22	10.62	12.10	13.07
	2/28/2008**		0.7	9.90	12.82	13.38
	5/25/2008**		1.1	10.50	12.22	13.10
	11/2/2008**		1.1	10.40	12.32	13.20
	3/24/2009	**26.70**	**0.36**	**9.25**	**17.45**	**17.74**
MW-14	**3/24/2009**	**25.98**	**None**	**8.63**	**17.35**	**NA**
MW-15	**3/24/2009**	**24.22**	**None**	**6.95**	**17.27**	**NA**
MW-16	**3/24/2009**	**22.90**	**None**	**6.43**	**16.47**	**NA**
W-1	3/2/2000	33.43	None	4.08	29.35	NA
	5/17/2000		None	5.41	28.02	NA
	8/30/2000		None	6.71	26.72	NA
	12/18/2000		None	5.73	27.70	NA
	3/20/2001		None	5.16	28.27	NA
	6/7/2001		None	6.10	27.33	NA
	9/20/2001		None	6.58	26.85	NA
	12/14/2001		None	4.69	28.74	NA
	2/27/2002		None	4.94	28.49	NA
	5/16/2002		None	5.54	27.89	NA
	9/18/2002		None	6.08	27.35	NA
	10/30/2002		None	6.24	27.19	NA
	2/6/2003		None	5.17	28.26	NA
	5/1/2003		None	4.71	28.72	NA
	8/26/2003		None	6.14	27.29	NA
	11/20/2003		None	6.19	27.24	NA
	2/10/2004		None	4.95	28.48	NA
	5/18/2004		None	5.70	27.73	NA
	8/30/2004		None	6.64	26.79	NA
	11/17/2004		None	5.36	28.07	NA
	2/23/2005		None	4.26	29.17	NA
	11/2/2005**		None	6.59	26.84	NA
	5/28/2006**		None	5.15	28.28	NA
	11/16/2006**		None	5.50	27.93	NA
	5/27/2007**		None	5.80	27.63	NA
	11/10/2007**		None	5.95	27.48	NA
	5/25/2008**		None	5.95	27.48	NA
	3/24/2009	**36.57**	**None**	**4.77**	**31.80**	**NA**

TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	Top of Casing Elevation (ft-msl)	Product Thickness (feet)	DTW (feet)	Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected from Product Thickness* (ft-msl)
W-2	5/17/2000	34.21	None	5.60	28.61	NA
	8/30/2000		None	7.37	26.84	NA
	12/18/2000		None	6.44	27.77	NA
	1/23/2001					**abandoned**
W-3	5/17/2000	37.46	None	6.38	31.08	NA
	8/30/2000		None	8.16	29.30	NA
	12/18/2000		None	7.19	30.27	NA
	3/20/2001		None	5.70	31.76	NA
	6/7/2001		None	7.51	29.95	NA
	9/20/2001		None	7.83	29.63	NA
	12/14/2001		None	4.76	32.70	NA
	2/27/2002		None	5.32	32.14	NA
	5/16/2002		None	6.45	31.01	NA
	9/18/2002		None	7.10	30.36	NA
	10/30/2002		None	7.30	30.16	NA
	2/6/2003		None	5.69	31.77	NA
	5/1/2003		None	4.97	32.49	NA
	8/26/2003		None	7.52	29.94	NA
	11/20/2003		None	7.58	29.88	NA
	2/10/2004		None	5.63	31.83	NA
	5/18/2004		None	6.20	31.26	NA
	8/30/2004		None	8.39	29.07	NA
	11/17/2004		None	6.57	30.89	NA
	2/23/2005		None	4.24	33.22	NA
	11/2/2005**		None	8.24	29.22	NA
	5/28/2006**		None	6.32	31.14	NA
	11/16/2006**		None	6.80	30.66	NA
	5/27/2007**		None	6.73	30.73	NA
	11/10/2007**		None	7.55	29.91	NA
	5/25/2008**		None	7.50	29.96	NA
	3/24/2009	**40.41**	**None**	**5.67**	**34.74**	**NA**
W-4	3/2/2000	31.72	None	3.34	28.38	NA
	5/17/2000		None	3.86	27.86	NA
	8/30/2000		None	4.99	26.73	NA
	12/18/2000		None	4.20	27.52	NA
	3/20/2001		None	3.75	27.97	NA
	6/7/2001		None	4.67	27.05	NA
	9/20/2001		None	4.80	26.92	NA
	12/14/2001		None	3.22	28.50	NA
	2/27/2002		None	3.58	28.14	NA
	5/16/2002		None	3.89	27.83	NA
	9/18/2002		None	4.24	27.48	NA
	10/30/2002		None	4.56	27.16	NA
	2/6/2003		None	3.67	28.05	NA
	5/1/2003		None	2.61	29.11	NA
	8/26/2003		None	4.47	27.25	NA
	11/20/2003		None	4.42	27.30	NA
	2/10/2004		None	3.54	28.18	NA
	5/18/2004		None	4.11	27.61	NA
	8/30/2004		None	4.85	26.87	NA
	11/17/2004		None	3.81	27.91	NA
	2/23/2005		None	2.97	28.75	NA
	11/2/2005**		None	4.70	27.02	NA
	5/28/2006**		None	4.50	27.22	NA
	11/16/2006**		None	3.90	27.82	NA
	5/27/2007**		None	3.82	27.90	NA
	11/10/2007**		None	4.30	27.42	NA
	5/25/2008**		None	4.40	27.32	NA
	3/24/2009	**34.81**	**None**	**3.63**	**31.18**	**NA**

Notes:
* used 0.8 specific gravity of product
ft-msl:feet mean sea level
DTW: Depth to water
NA: not applicable

** Essel Technology Services, Inc. data.

TABLE 2
ANALYTICAL RESULTS GROUNDWATER SAMPLES
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	TPH-8015 (diesel)	TPH-8015 (gas)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MCL (ug/l)		**None**	**None**	**1.0**	**150**	**300**	**1750**	**13**
ESL (ug/l)		**100**	**100**	**1.0**	**40**	**30**	**20**	**5**
MW-1	8/31/1999	310	NA	<1.0	2.4	1	1.6	NA
	11/23/1999	250	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	310	62	<1.0	<1.0	<1.0	<2.0	687
	5/17/2000	390	63	<1.0	<1.0	<1.0	<2.0	74
	8/31/2000	180	<50	<1.0	<1.0	<1.0	<2.0	49
	12/18/2000	310	<50	<1.0	<1.0	<1.0	<2.0	44
	3/21/2001	240	<50	<1.0	<1.0	<1.0	<2.0	17
	6/7/2001	540	<50	<1.0	<1.0	<1.0	<2.0	32
	9/20/2001	290	<50	<1.0	<1.0	<1.0	<2.0	29
	2/27/2002	<250	<50	<1.0	<1.0	<1.0	<2.0	14
	9/18/2002	230	<50	<1.0	<1.0	<1.0	<2.0	30
	2/6/2003	82	<50	<0.5	<0.5	<0.5	<1.0	17
	8/26/2003	200	<50	<0.5	<0.5	<0.5	<1.0	9.8
	2/10/2004	4,800	<50	<0.5	<0.5	<0.5	<1.0	6.6
	8/30/2004	<56	<50	<0.5	<0.5	<0.5	<1.5	4.2
	2/23/2005	<50	<50	<0.5	<0.5	<0.5	<1.0	6.1
	11/3/2005*	70	<50	<0.5	<0.5	<0.5	<0.5	4.5
	5/29/2006*	89	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/12/2006*	65	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	65	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	59	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	60	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/24/2009	**<100**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**1.1**
MW-2	8/31/1999	180	NA	<1.0	<1.0	<1.0	1.2	NA
	11/23/1999	120	NA	<1.0	<1.0	<1.0	<5.0	NA
	3/1/2000	510	<50	<1.0	<1.0	<1.0	<2.0	81
	5/17/2000	1,100	<50	<1.0	<1.0	<1.0	<2.0	87
	8/31/2000	620	<50	<1.0	<1.0	<1.0	<2.0	65
	12/19/2000	830	<50	<1.0	<1.0	<1.0	<2.0	70
	3/21/2001	900	<50	<2.0	<2.0	<2.0	<4.0	33
	6/7/2001	810	<50	<1.0	<1.0	<1.0	<2.0	43
	9/20/2001	1,200	<50	<1.0	<1.0	<1.0	<2.0	35
	2/27/2002	<250	<50	<1.0	<1.0	<1.0	<2.0	19
	9/18/2002	180	<50	<1.0	<1.0	<1.0	<2.0	17
	2/6/2003	58	<50	<0.5	<0.5	<0.5	<1.0	18
	8/26/2003	150	<50	<0.5	<0.5	<0.5	<1.0	15
	2/11/2004	<50	<50	<0.5	<0.5	<0.5	<1.0	5.2
	8/30/2004	<56	<50	<0.5	<0.5	<0.5	<1.5	6.3
	2/23/2005	<50	<50	<0.5	<0.5	<0.5	<1.0	8.4
	11/3/2005*	110	<50	<0.5	<0.5	<0.5	<0.5	4.9
	5/29/2006*	70	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/16/2006*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	75	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	62	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/24/2009	**<97**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**2.9**
MW-3	8/31/1999	2,700	NA	<1.0	<1.0	<1.0	<1.0	NA
	11/23/1999	640	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	5/17/2000	620	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	8/31/2000	1,800	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	12/18/2000	NA	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	3/21/2001	1,700	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	6/7/2001	770	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	9/21/2001	260	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	2/27/2002	560	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	9/18/2002	340	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	2/6/2003	<50	<50	<0.5	<0.5	<0.5	<1.0	3.9
	8/26/2003	5,800	<50	<0.5	<0.5	<0.5	<1.0	4.9
	2/11/2004	<50	<50	<0.5	<0.5	<0.5	<1.0	3.4
	8/30/2004	<56	<50	<0.5	<0.5	<0.5	1.5	4
	2/23/2005	<50	<50	<0.5	<0.5	<0.5	<1.0	5.4
	11/3/2005*	180	<50	<0.5	<0.5	<0.5	<0.5	3.2
	5/29/2006*	180	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/16/2006*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	730	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	910	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/25/2009	**<110**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<1.0**

TABLE 2
ANALYTICAL RESULTS GROUNDWATER SAMPLES
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	TPH-8015 (diesel)	TPH-8015 (gas)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MCL (ug/l)		**None**	**None**	**1.0**	**150**	**300**	**1750**	**13**
ESL (ug/l)		**100**	**100**	**1.0**	**40**	**30**	**20**	**5**
MW-4	8/31/1999	<50	NA	<1.0	<1.0	<1.0	1.6	NA
	11/23/1999	<50	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	5/17/2000	80	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	8/31/2000	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	12/18/2000	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	3/20/2001	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	6/7/2001	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	11/3/2005*	<50	<50	<0.5	<0.5	<0.5	<0.5	4.1
	5/29/2006*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/16/2006*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/25/2009	**<95**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**1.0**
MW-5	8/31/1999	250	NA	<1.0	<1.0	<1.0	1	NA
	11/23/1999	300	NA	<1.0	<1.0	<1.0	<5.0	NA
	3/1/2000	340	<50	<1.0	<1.0	<1.0	<2.0	100
	5/17/2000	230	<50	<1.0	<1.0	<1.0	<2.0	86
	8/31/2000	220	<50	<1.0	<1.0	<1.0	<2.0	59
	12/18/2000	360	<50	<1.0	<1.0	<1.0	<2.0	57
	3/20/2001	250	<50	<5.0	<5.0	<5.0	<10	87
	6/7/2001	600	<50	<1.0	<1.0	<1.0	<2.0	74
	11/3/2005*	1,500	<50	<0.5	<0.5	<0.5	<0.5	5.7
	5/29/2006*	200	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/12/2006*	130	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	180	140	<0.5	<0.5	<0.5	<0.5	<10
	11/10/2007*	110	170	<0.5	<0.5	0.59	1.3	<10
	5/25/2008*	200	82	<0.5	<0.5	<0.5	<0.5	<5.0
	3/25/2009	**<95**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**1.1**
MW-6	8/31/1999	140,000	NA	77	18	31	49	NA
	11/23/1999	6,100	NA	45	14	6.9	48	NA
	3/1/2000	22,000	2800	6.8	<2.0	<2.0	<10	<5.0
	5/17/2000	1,800	6200	77	16	39	37	<5.0
	8/31/2000	76,000	5300	60	13	43	45.7	<5.0
	12/19/2000	6,300	1300	26.0	4.9	8.4	11.5	<5.0
	3/21/2001	5,100	1900	49.0	9.5	13	12	<10
	6/7/2001	14,000	2600	47.0	10	13	19	<10
	9/21/2001	15,000	4000	180	14	24	40	<50
	2/27/2002	43,000	5000	68	16	52	41.8	<25
	9/18/2002	320,000	2000	74	7.3	22	25	<5.0
	2/6/2003	4,300	2600	63	8.2	18	15	<1.0
	8/26/2003	68,000	6500	110	16	44	42	<10
	2/10/2004	19,000	3500	37	4.9	24	15	<5
	8/30/2004	<56	<50	86	7.8	15	27	<5
	2/23/2005	4,930	687	7.9	2	0.9	4.3	<0.5
	11/3/2005*	2,000	750	13	1.9	2.9	4.6	1.4
	5/29/2006*	12,000	2700	55	5.7	16	26	<15
	11/16/2006*	2,100	530	12	0.82	0.58	2.8	<5.0
	5/27/2007*	2,500	5200	110	5.1	23	17	<60
	11/10/2007*	9,300	2100	30	<1.7	3.9	4	<17
	5/25/2008*	20,000	5000	88	<2.5	31	14	<25
	3/25/2009	**2,610**	**785**	**8.9**	**<2.0**	**2.9**	**<4.0**	**<2.0**
MW-7	8/31/1999	1,400	NA	<1.0	2.9	2.3	2.7	NA
	11/23/1999	530	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	640	860	<1.0	<1.0	<1.0	<2.0	<20
	5/17/2000	430	410	<1.0	<1.0	<1.0	<2.0	9.5
	8/31/2000	950	1100	<1.0	<1.0	<1.0	<2.0	<5.0
	12/18/2000	1,100	820	<1.0	<1.0	<1.0	<2.0	<5.0
	3/20/2001	770	1000	<1.0	1.4	<1.0	<2.0	<5.0
	6/7/2001	1,400	870	<1.0	<1.0	<1.0	<2.0	<5.0
	9/21/2001	940	1000	<1.0	<1.0	<2.0	<5.0	<5.0
	2/27/2002	430	930	<1.0	<1.0	<1.0	<2.0	<5.0
	9/18/2002	440	870	<1.0	<1.0	<1.0	<2.0	<5.0
	2/6/2003	230	890	<0.5	<0.5	<0.5	<1.0	1.6
	8/26/2003	470	590	<0.5	<0.5	<0.5	<1.0	1.5
	2/11/2004	140	690	<0.5	1.9	0.57	1.0	1.1
	8/30/2004	<56	200	<0.5	<0.5	<0.5	<1.5	1.5
	2/23/2005	290	283	<0.5	<0.5	<0.5	<1.0	1.1
	11/3/2005*	140	310	<0.5	<0.5	<0.5	<0.5	2.3
	5/29/2006*	120	260	<0.5	<0.5	<0.5	<0.5	<5.0
	11/12/2006*	96	120	<0.5	<0.5	<0.5	0.76	<5.0
	5/27/2007*	220	700	<0.5	<0.5	1.0	2.0	<5.0
	11/10/2007*	150	220	<0.5	<0.5	<0.5	1.0	<5.0
	5/25/2008*	270	620	0.81	<0.5	0.85	1.8	<10
	3/25/2009	**<99**	**529**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<1.0**

TABLE 2
ANALYTICAL RESULTS GROUNDWATER SAMPLES
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	TPH-8015 (diesel)	TPH-8015 (gas)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MCL (ug/l)		**None**	**None**	**1.0**	**150**	**300**	**1750**	**13**
ESL (ug/l)		**100**	**100**	**1.0**	**40**	**30**	**20**	**5**
MW-8	8/31/1999	230	NA	<1.0	<1.0	1.2	<1.0	NA
	11/23/1999	220	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	260	150	<1.0	<1.0	<1.0	<2.0	<5.0
	5/17/2000	660	310	<1.0	<1.0	<1.0	<2.0	<5.0
	8/31/2000	460	300	<1.0	<1.0	<1.0	1.4	<5.0
	12/18/2000	370	230	<1.0	<1.0	<1.0	<2.0	<5.0
	3/20/2001	1,700	64	<1.0	<1.0	<1.0	<2.0	<5.0
	6/7/2001	1,300	180	<1.0	<1.0	<1.0	<2.0	<5.0
	11/3/2005*	280	150	<0.5	<0.5	<0.5	<0.5	0.69
	5/29/2006*	150	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/12/2006*	<50	95	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	140	140	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	160	240	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	160	230	<0.5	<0.5	<0.5	0.61	<5.0
	3/25/2009	**<95**	**72.8**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**1.2**
MW-9	8/31/1999	2,800	NA	<1.0	<1.0	<1.0	1.1	NA
	11/23/1999	1,300	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	510	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	5/17/2000	990	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	8/31/2000	1,100	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	12/18/2000	1,900	<50	<1.0	<1.0	<1.0	<2.0	5.9
	3/20/2001	1,500	<50	<1.0	<1.0	<1.0	<2.0	5.5
	6/7/2001	590	<50	<1.0	<1.0	<1.0	<2.0	8.1
	9/20/2001	790	<50	<1.0	<1.0	<1.0	<2.0	8.5
	2/27/2002	650	<50	<1.0	<1.0	<1.0	<2.0	9.5
	9/18/2002	480	<50	<1.0	<1.0	<1.0	<2.0	6.2
	2/6/2003	54	<50	<0.5	<0.5	<0.5	<1.0	5.5
	8/26/2003	1,300	<50	<0.5	<0.5	<0.5	<1.0	6.6
	2/10/2004	6,200	250	<0.5	<0.5	<0.5	<1.0	4.4
	8/30/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	3.6
	2/23/2005	<0.5	<50	<0.5	<0.5	<0.5	<1.0	6.0
	11/3/2005*	470	<50	<0.5	<0.5	<0.5	<0.5	4.8
	5/29/2006*	190	<50	<0.5	<0.5	<0.5	<0.5	5.2
	11/12/2006*	65	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	1,000	<50	<0.5	0.92	<0.5	<0.5	<5.0
	11/10/2007*	930	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	740	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/25/2009	**<390**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**3.5**
MW-10	8/31/1999	1,100	NA	<1.0	1.2	2.0	<1.0	NA
	11/23/1999	1,200	NA	<1.0	<1.0	<1.0	<1.0	NA
	3/1/2000	1,300	540	<1.0	<1.0	<1.0	<2.0	NA
	5/17/2000	990	460	<1.0	<1.0	<1.0	<2.0	6.9
	8/31/2000	840	320	<1.0	<1.0	<1.0	<2.0	25
	12/18/2000	900	290	<1.0	<1.0	<1.0	<2.0	<9.0
	3/21/2001	620	220	<1.0	<1.0	<1.0	<2.0	<5.0
	6/7/2001	1,300	360	<1.0	<1.0	<1.0	<2.0	15
	9/20/2001	1,000	350	<1.0	<1.0	<1.0	<2.0	44
	2/27/2002	610	150	<1.0	<1.0	<1.0	<2.0	<5.0
	9/18/2002	850	240	<1.0	1.2	<1.0	<2.0	20
	2/6/2003	510	200	<0.5	<0.5	<0.5	<1.0	2.8
	8/26/2003	1,100	250	<0.5	<0.5	<0.5	<1.0	14
	2/10/2004	260	190	<0.5	<0.5	<0.5	<1.0	1.6
	8/30/2004	310	240	<0.5	<0.5	<0.5	<1.5	6.7
	2/23/2005	310	207	<0.5	0.7	1.4	1.3	<0.5
	11/3/2005*	600	300	<0.5	<0.5	<0.5	<0.5	4.1
	5/29/2006*	540	140	<0.5	<0.5	<0.5	<0.5	<5.0
	11/16/2006*			Well Not Accessible				
	2/24/2007*	970	190	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	850	330	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	1,200	420	<0.5	<0.5	<0.5	<0.5	<5.0
	5/28/2008*	930	330	<0.5	<0.5	0.92	1.1	<5.0
	3/25/2009	**948**	**173**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<1.0**

TABLE 2
ANALYTICAL RESULTS GROUNDWATER SAMPLES
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	TPH-8015 (diesel)	TPH-8015 (gas)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MCL (ug/l)		**None**	**None**	**1.0**	**150**	**300**	**1750**	**13**
ESL (ug/l)		**100**	**100**	**1.0**	**40**	**30**	**20**	**5**
MW-11	9/20/2001	460	88	<1.0	<1.0	<1.0	<2.0	<5.0
	12/14/2002	320	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	2/27/2002	<50	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	5/16/2002	380	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	9/18/2002	250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	10/30/2002	260	<50	<0.5	<0.5	<0.5	<1.5	<2.5
	2/6/2003	250	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	5/1/2003	220	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	8/26/2003	300	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	11/20/2003	77	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	5/18/2004	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	8/30/2004	<56	<50	<0.5	<0.5	<0.5	<1.5	<1.0
	11/17/2004	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	2/23/2005	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	11/3/2005*	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	2/22/2006*	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	5/29/2006*	250	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/27/2006*	57	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/12/2006*	56	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/2007*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	61	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/2/2007*	67	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	55	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/28/2008*	71	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/28/2008*	110	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/2/2008*	200	<50	2.1	<0.5	0.51	0.70	<5.0
	3/25/2009	**<99**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<1.0**
MW-12	9/20/2001	540	960	<1.0	<1.0	<2.0	<5.0	11
	12/14/2002	170	670	<1.0	<1.0	<1.0	<2.0	9.4
	2/27/2002	350	950	<1.0	<1.0	<1.0	<2.0	11
	5/16/2002	500	1100	<1.0	<1.0	<1.0	<2.0	6.7
	9/18/2002	1,600	570	<1.0	<1.0	<1.0	<3.0	7.1
	10/30/2002	440	420	<0.5	<0.5	<0.5	<1.5	<2.5
	2/6/2003	190	340	<0.5	<0.5	<0.5	<1.0	6.8
	5/1/2003	580	950	<2.5	<2.5	3.7	9.0	8.8
	8/26/2003	110	260	<0.5	<0.5	<0.5	<1.0	11
	11/20/2003	100	160	<0.5	<0.5	<0.5	<1.0	8.9
	2/10/2004	210	490	<0.5	0.6	<0.5	<1.0	6.7
	5/18/2004	190	620	<0.5	<0.5	0.8	<1.0	5.6
	8/30/2004	<56	430	<0.5	<0.5	<0.5	<1.5	5.6
	11/17/2004	320	186	<0.5	0.5	0.5	<1.0	10.8
	2/23/2005	340	790	3.0	6.9	1.4	4.2	6.2
	11/3/2005*	120	440	<0.5	<0.5	<0.5	<0.5	6.6
	2/22/2006*	140	400	<0.5	<0.5	<0.5	<0.5	7.8
	5/29/2006*	140	310	<0.5	<0.5	<0.5	<0.5	5.7
	8/27/2006*	120	530	<0.5	<0.5	<0.5	<0.5	6.6
	11/16/2006*	200	740	<0.5	2.1	<0.5	6.3	<10
	2/24/2007*	87	200	<0.5	<0.5	<0.5	<0.5	<10
	5/27/2007*	140	340	<0.5	<0.5	1.4	1.8	<10
	9/2/2007*	130	430	<0.5	<0.5	<0.5	0.77	8.3
	11/10/2007*	94	360	<0.5	<0.5	<0.5	<0.5	<10
	2/28/2008*	160	55	<0.5	<0.5	<0.5	<0.5	10
	5/28/2008*	850	120	<0.5	<0.5	<0.5	<0.5	8.9
	11/2/2008*	200	320	0.64	<0.5	<0.5	<0.5	<5.0
	3/25/2009	**<96**	**89.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**4.3**
MW-13	9/21/2001	<250	<50	<1.0	<1.0	<1.0	<2.0	7.4
	12/14/2002	160	<50	<1.0	<1.0	<1.0	<2.0	11
	2/27/2002	1,100	450	<1.0	<5.0	<1.0	<2.0	9.9
	11/3/2005*		Not sampled - free-phase product in well					
	2/22/2006*		Not sampled - free-phase product in well					
	5/29/2006*		Not sampled - free-phase product in well					
	11/16/2006*		Not sampled - free-phase product in well					
	5/27/2007*		Not sampled - free-phase product in well					
	9/2/2007*		Not sampled - free-phase product in well					
	11/10/2007*		Not sampled - free-phase product in well					
	2/28/2008*		Not sampled - free-phase product in well					
	5/25/2008*		Not sampled - free-phase product in well					
	3/24/2009		**Not sampled - free-phase product in well**					
MW-14	**3/25/2009**	**<95**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**5.8**
MW-15	**3/24/2009**	**<95**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**5.0**
MW-16	**3/24/2009**	**<96**	**62.9**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**10.3**

TABLE 2
ANALYTICAL RESULTS GROUNDWATER SAMPLES
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

Well	Date	TPH-8015 (diesel)	TPH-8015 (gas)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MCL (ug/l)		**None**	**None**	**1.0**	**150**	**300**	**1750**	**13**
ESL (ug/l)		**100**	**100**	**1.0**	**40**	**30**	**20**	**5**
W-1	5/16/2002	520	150	<1.0	<1.0	<1.0	<2.0	8.7
	3/2/2000	1,800	3,400	20.0	5.3	30	23.8	<5.0
	5/17/2000	1,100	7,300	35.0	11	59	45	<1.0
	8/31/2000	2,200	6,200	20.0	7.9	36	38.2	<10
	12/19/2000	1,700	5,600	20.0	8.4	30	35.6	<5.0
	3/20/2001	2,100	7,200	32.0	13	56	40	<10
	6/7/2001	2,100	7,300	26.0	18	42	38.3	<10
	9/21/2001	1,800	7,100	27	<10	48	40	<10
	2/27/2002	1,800	7,100	24	9	52	34	<25
	2/6/2003	990	5,300	11	4.7	27	24	<1.0
	8/26/2003	1,700	5,800	7.5	5.4	24	25	<10
	2/10/2004	940	6,000	16.0	4.9	20	21	<1.0
	8/30/2004	<56	2,500	8.6	3.6	11	18	<1.30
	2/23/2005	1,910	3,900	74.1	12.2	64.4	48.2	<0.5
	11/3/2005*	2,400	6,200	7.2	3.6	5.7	20	0.73
	5/29/2006*	1,700	4,600	18.0	4.4	17	32	<17
	11/16/2006*	760	2,600	18.0	3.7	10	19	<10
	5/27/2007*	1,200	4,200	20.0	34	12	17	<45
	11/10/2007*	1,200	6,100	32.0	<2.5	9.4	14	<25
	5/25/2008*	1,300	5,700	18.0	1.8	11	13	<17
	3/24/2009	**637**	**3,850**	**10.9**	**<10**	**<10**	**<20**	**<10**
W-2	9/18/2002	1,000	5900	11	<22	23	22	<5.0
	5/17/2000	19,000	870	<2.0	<1.0	<2.0	<4.0	<5.0
	8/31/2000	7,400	2200	4.6	2.5	3.8	11	<5.0
W-3	12/19/2000	10,000	290	8.8	3.4	8.6	17.4	<5.0
	5/17/2000	<50	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	8/31/2000	<50	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	12/18/2000	<250	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	3/20/2001	630	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	11/3/2005*	<50	<50	<0.5	<0.5	<0.5	<0.5	1.2
	5/29/2006*	<50	240	<0.5	<0.5	<0.5	<0.5	<5.0
	11/16/2006*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
W-4	6/7/2001	1,200	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	3/2/2000	190	<50	1.1	<1.0	<1.0	<2.0	<5.0
	5/17/2000	230	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	8/31/2000	240	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	12/19/2000	320	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	3/21/2001	220	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	6/7/2001	430	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	11/3/2005*	66	<50	<0.5	<0.5	<0.5	<0.5	2.0
	5/29/2006*	110	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/16/2006*	72	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/27/2007*	180	99	0.89	<0.5	<0.5	<0.5	<5.0
	11/10/2007*	83	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/2008*	71	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Notes:
ug/l: micrograms per liter
TPH: Total Petroleum Hydrocarbons
MTBE: methyl tert butylether
MCL: Maximum Contaminant Level
NA: not analyzed

* Essel Technology Services, Inc.

APPENDIX A

CHAIN-OF-CUSTODY DOCUMENTATION
FIELD DATA SHEETS
CERTIFIED ANALYTICAL REPORTS

Northern California
ACCUTEST Laboratories

CHAIN OF CUSTODY

3334 Victor Court, Santa Clara, CA 95054
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest NC Job #: C

Client / Reporting Information

Company Name: Cameron-Cole	Project Name: AC Emeryville
Address: 101 W. Atlantic Ave #90	Street: 45th St
City: Alameda State: CA Zip: 94501	City: Emeryville State: CA
Project Contact: Shaun Surani	Project #: 7036-001
Phone #: 510 769 3574	EMAIL: ssurani@cameron-cole.com
Samplers's Name	Client Purchase Order #

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260 Full List ☐ 624 ☐ with/TPH as Gasoline ☐	8260Petro (Includes BTEX / MtBE / TBA / EtBE / DIPE / TAME / 1,2-DCA / EDB ☐ TPH as Gas ☐	8270 ☐ PAHs only ☐ 625 ☐ +TICs ☐	TPH-Extractable - Diesel - Motor Oil - Other ☐ With Silica Gel Cleanup ☐	METALS: CAM-17☐ LUFT-5☐ RCRA-8☐ PPM-13☐	Pesticides-8081 ☐ PCBs-8082 ☐ 608 ☐	BTEX-MtBE-TPH as Gasoline by GC/PID-FID ☐	Cox, BTEX, MTBE 8260	diesel/motor oil 8015M			LAB USE ONLY
	TB-01	3-24-04	1330	BC	GW	3	3															X				
	W-1	↓	1410	↓	↓	5	3				2											↓	X			
	MW-1		1500			↓	↓				↓												↓			
	MW-2		1525																							
	MW-3	3-25-04	0945																							
	MW-4	↓	1040																							
	MW-5		1120																							
	MW-6		1215																							
	MW-7		1305																							
	MW-8	↓	1355	↓	↓	↓	↓				↓											↓	↓			

Matrix Codes
WW- Water
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ 10 Day (~~Workload dependent~~) Standard
- ☐ 5 Day (Workload dependent)
- ☐ 3 Day (125% markup)
- ☐ 2 Day (150% markup)
- ☐ 1 Day *(200% markup)*
- ☐ Same Day (300% markup)

Approved By:/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A"
- ☒ Commercial "B"
- ☐
- ☐
- ☑ EDF for Geotracker
- ☑ EDD Format
- Provide EDF Global ID: T0600118672
- Provide EDF Logcode:

Comments / Remarks

No 8015M for TB-01,

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		3/27/04 0845	1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #		
			5			

Appropriate Bottle / Pres. Y / N Headspace Y / N On Ice Y / N Cooler Temp. ____ oC
Labels match Coc? Y / N Separate Receipt Log Y / N

Northern California
ACCUTEST Laboratories

CHAIN OF CUSTODY

3334 Victor Court, Santa Clara, CA 95054
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest NC Job #: C

Client / Reporting Information

Company Name: Cameron-Cole
Address: 101 W. Atlantic Ave #90
City: Alameda State: CA Zip: 94501
Project Contact: Shaun Suran
Phone #: 510 769 3579
Samplers's Name:

Project Information

Project Name: AC Emeryville
Street: 45th St.
City: Emeryville State: CA
Project #: 2036-001
EMAIL: SSuran@cameron-cole.com
Client Purchase Order #:

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	Requested Analysis: 8260 Full List ☐ 624 ☐ with/TPH as Gasoline	8260Petro (Includes BTEX / MtBE / TBA / EtBE / DIPE / TAME / 1,2-DCA / EDB ☐ TPH as Gas	8270 ☐ PAHs only ☐ 625 ☐ +TICs ☐	TPH-Extractable - Diesel - Motor Oil - Other ☐ With Silica Gel Cleanup ☐	METALS: CAM-17☐ LUFT-5☐ RCRA-8☐ PPM-13☐	Pesticides-8081 ☐ PCBs-8082 ☐ 608 ☐	BTEX-MtBE-TPH as Gasoline by GC/PID-FID ☐	Gas, BTEX, mtbe 8260	diesel/motor oil 8015m
	MW-15	3-24-09	1335	DB	GW	5	3				Z											X	X
	MW-16	↓	1510																				
	MW-14	3-25-09	0850																				
	MW-12		1050																				
	MW-11		1210																				
	MW-10		1300																				
	MW-9	↓	1400	↓	↓	↓	↓				↓											↓	↓

Matrix Codes
WW- Water
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

LAB USE ONLY

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ ~~10 Day (Workload dependent)~~ standard
- ☐ 5 Day (Workload dependent)
- ☐ 3 Day (125% markup)
- ☐ 2 Day (150% markup)
- ☐ 1 Day *(200% markup)*
- ☐ Same Day (300% markup)

Approved By:/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A"
- ☒ Commercial "B"
- ☐
- ☐
- ☒ EDF for Geotracker ☒ EDD Format
- Provide EDF Global ID T0600118672
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		3/27/09 0845	1	2		2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N Labels match Coc? Y / N	Headspace Y / N Separate Receipt Log Y / N

On Ice Y / N
Cooler Temp. _____ oC

DATE: 3/24/09

AC Transit Emeryville | EVENT Quarterly | TECHNICIAN DC, DB

WELL OR LOCATION	DATE	TIME	MEASUREMENT	CODE	COMMENTS
MW-1	3-24-09	1147	3.86	SWL	
MW-2		1145	3.52		
MW-3		1150	4.78		
MW-4		1155	5.12		
MW-5		1140	3.22		
MW-6		1135	2.78		
MW-7		1158	4.31		
MW-8		1200	4.21		
MW-9		1205	3.31		
MW-10		1215	9.45		
MW-11		1210	2.37		
MW-12		1215	10.31		
MW-13		1230	8.84	OIL	Oil/water Interface used
MW-13			9.25	OWI	" " "
W-1		1125	4.77	SWL	
W-3		1115	5.67		TD = 28.70
W-4		1130	3.63		TD = 16.91

SWL - Static Water Level

OIL - Oil Level

OWI - Oil/Water Interface

MTD - Measured Total Depth

CAMERON-COLE

SAMPLING EVENT DATA SHEET

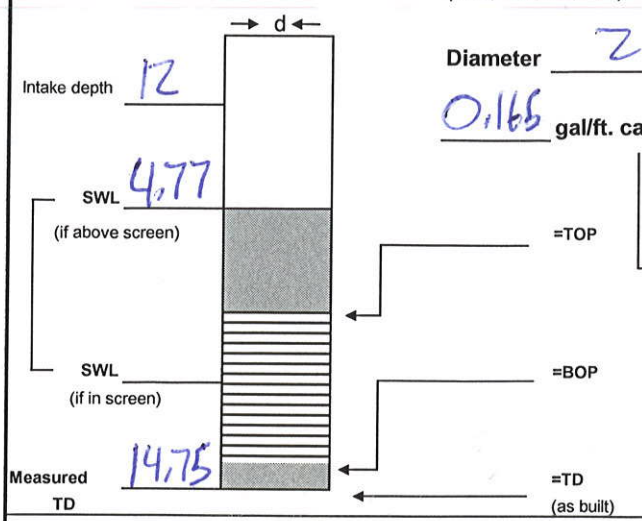
WELL OR LOCATION W-1

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER [illegible] | DATE 3-24-09

Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1349	0.38	
	1350	↓	5.56
	1355		5.31
	1400		5.31
Stop	1402		5.31
Sampled	1410		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 9.98 ft. (SWL to TD) = 1.65 gals. (one volume) X 3 = 4.9 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

- Cent pump to purge
- Disp. bailer to sample

Actual gallons purged: 5.0

Actual volumes purged: 3.03

Well Yield ⊕: HY

COC # _____

Additional Comments:

TB-01 collected @ 1330

Sample I.D.	Analysis	Lab
W-1	8260	Accutest
↓	8015M	↓
TB-01	8260	Accutest

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1. ~~1~~ 1.5	22.2	847	6.81	32.46	DO - 2.12	
2. 3	22.2	848	6.86	20.66	ORP - -98 mV	
3. 4	22.0	842	6.86	7.33	Fe - 3.17 mg/L	
4.						
5.						

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

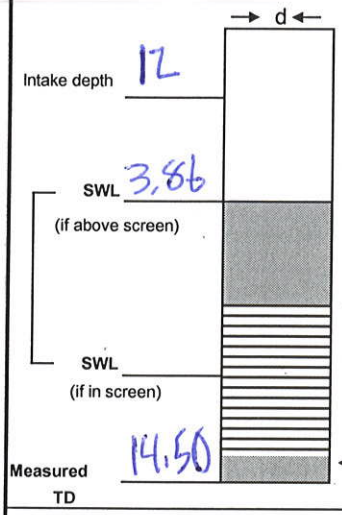
WELL OR LOCATION MW-1

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DC | DATE 3-24-09

Well type (MW, EW, PZ, etc.): MW

Diameter: 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1431	0.29	
	1435		4.79
	1440		5.51
	1445		5.65
Stop	1448		5.58
Sampled	1500		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 10.64 ft. (SWL to TD) = 1.75 gals. (one volume) X 3 = 5.27 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp. bailer to sample

Actual gallons purged: 5.5

Actual volumes purged: 3.14

Well Yield ⊕: HY

COC #

Sample I.D.	Analysis	Lab
MW-1	8260	Accutest
MW-1	8015m	↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. 1.5	21.9	610	7.25	46.71	DO - 2.20 mg/L
2. 3	21.7	636	7.22	18.31	ORP - 136 mV
3. 4.5	21.5	643	7.20	8.50	Fe - 1.10 mg/L
4.					
5.					

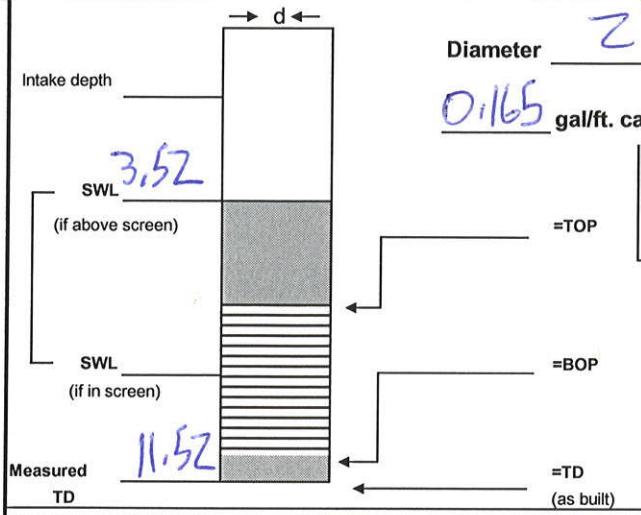
*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

WELL OR LOCATION MW-2

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DC | DATE 3-24-09



Well type (MW, EW, PZ, etc.) MW

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1505	0.33	
	1508		5.09
	1510		5.10
	1515		5.23
Stop	1517		
Sampled	1525		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 8.0 ft. (SWL to TD) = 1.32 gals. (one volume) X 3 = 3.96 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp bailer to sample

Actual gallons purged: 4.0

Actual volumes purged: 3.03

Well Yield ⊕: HY

COC #

Sample I.D.	Analysis	Lab
MW2	8260	Accutest
↓	8015M	↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. 1.0	22.1	639	7.31	7.85	DO - 2.21 mg/L
2. 2.0	21.4	641	7.28	11.05	ORP - 93 mV
3. 3.0	21.3	638	7.22	5.50	Fe - 0.15 mg/L
4.					
5.					

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

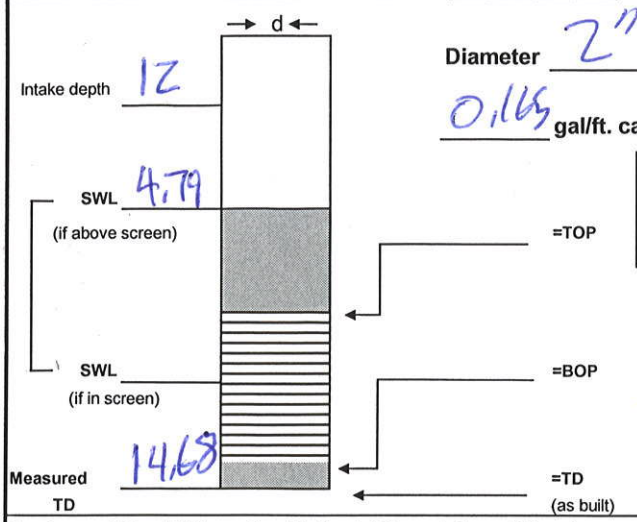
WELL OR LOCATION MW-3

PROJECT AC Transit Emeryville **EVENT** 1Q2009 **SAMPLER** [illegible] **DATE** 3-25-09

Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	0922	0.22	
	0925		6.25
	0930		7.51
Stop	0938		7.67
Sampled	0945		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 9.89 ft. (SWL to TD) = 1.63 gals. (one volume) X 3 = 4.89 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp Bailer to sample

Actual gallons purged 5.0

Actual volumes purged 3.07

Well Yield ⊕ HY

COC # [illegible]

Sample I.D.	Analysis	Lab
MW-3	8260	[illegible] accutest
MW-3	8015M	↓

Additional Comments:

	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1.	1.5	21.5	761	6.79	7.94	DO- 2.65	
2.	3.0	21.5	749	6.82	4.01	ORP- 166 mV	
3.	4.0	21.7	748	6.86	4.04	Fe- 0.05 mg/L	
4.							
5.							

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

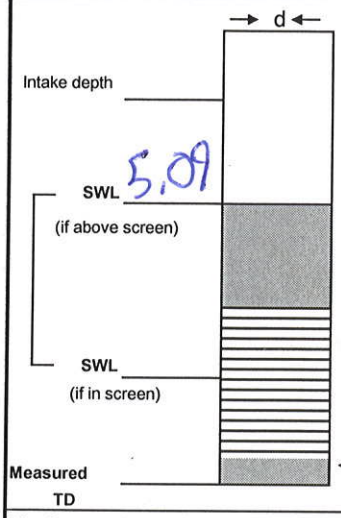
WELL OR LOCATION MW-4

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER [illegible] DATE 3-25-09

Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1015	0.36	
	1020		7.31
	1025		8.51
Stop	1029		8.59
Sampled	1040		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 9.91 ft. (SWL to TD) = 1.64 gals. (one volume) X 3 = 4.91 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp bailer to sample

Actual gallons purged 5.0

Actual volumes purged 3.05

Well Yield ⊕ HY

COC #

Sample I.D.	Analysis	Lab
MW-4	8260	Accutest
MW-4	8015M	↓

Additional Comments:

	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1.	1.3	21.4	750	6.88	3.14	DO- 1.62 mg/L
2.	~~2.0~~	21.4	745	6.89	3.56	ORP- 141 mV
3.	4.0	21.6	744	6.91	1.61	Fe- 0.08 mg/L
4.						
5.						

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

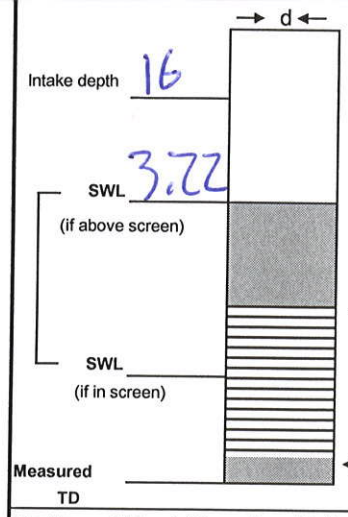
WELL OR LOCATION MW-5

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER DC DATE 3-25-09

Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1057	0.53	
	1100	↑	4.27
	1105		4.41
	1110		4.47
		↓	
Stop	1114		4.57
Sampled	1120		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 16.78 ft. (SWL to TD) = 2.77 gals. (one volume) X 3 = 8.31 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent Pump to purge
Disp Bailer to sample

Actual gallons purged 9.0

Actual volumes purged 3.25

Well Yield ⊕ HY

COC #

Additional Comments:

Sample I.D.	Analysis	Lab
MW-5	8260	Accutest
↓	6015M	↓

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1. 2.0	21.6	671	7.10	9.78	DO- 1.86 mg/L	
2. 5.0	21.6	674	7.11	5.35	ORP- 95 mV	
3. 7.0	21.6	674	7.10	4.26	Fe- 0.16 mg/L	
4.						
5.						

*Take measurement at approximately each casing volume purged. ⊕

HY-Minimal W.L. drop

MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump

LY - Able to purge 3 volumes by returning later or next day.

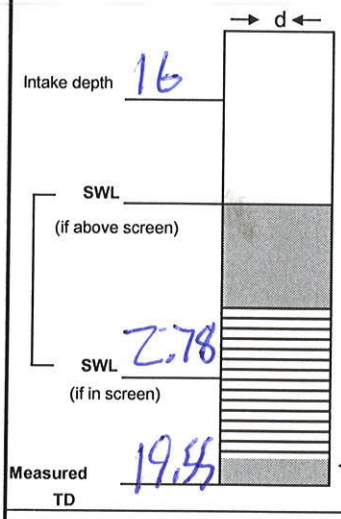
VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

WELL OR LOCATION MW-6

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER DC DATE 3-25-09



Well type (MW, EW, PZ, etc.) MW

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1146	0.5	
	1150		3.37
	1155		3.28
	1200		3.29
Stop	1204		3.32
Sampled	1215		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 16.77 ft. (SWL to TD) = 2.77 gals. (one volume) X 3 = 8.30 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp bailer to sample

Actual gallons purged 9.0

Actual volumes purged 3.25

Well Yield ⊕ HY

COC #

Sample I.D.	Analysis	Lab
MW-6	8260	Accutest
↓	8015M	↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. 2.0	22.2	951	6.94	31.45	DO - 2.74 mg/L
2. 5.0	22.0	949	6.93	16.62	ORP - -104 mV
3. 7.0	22.1	951	6.95	9.07	Fe - 3.30 mg/L
4.					
5.					

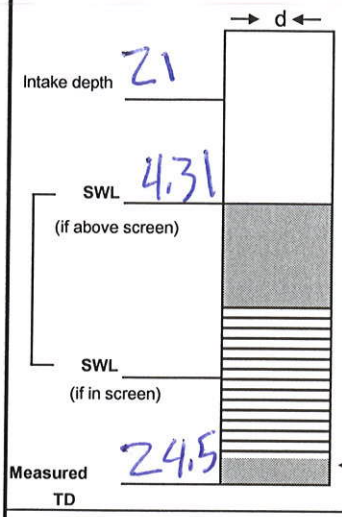
*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

WELL OR LOCATION MW-7

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DC | DATE 3-25-09



Well type (MW, EW, PZ, etc.) MW

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1232	0.38	
	1235		11.23
	1240		12.47
	1245		13.39
	1250		13.12
Stop	1258		13.02
Sampled	1305		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 20.19 ft. = 3.33 gals. X 3 = 9.99 gals.

(SWL to TD; one volume; purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp Bailer to sample

Actual gallons purged 10

Actual volumes purged 3.05

Well Yield ⊕ ~~HY~~ MY

COC #

Sample I.D.	Analysis	Lab
MW-7	8260	Accutest
↓	8015m	↓

Additional Comments:

	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1.	2.0	22.15	788	6.68	14.89	DO - 2.08	mg/L
2.	5.0	22.7	842	6.69	8.55	ORP - 30	mV
3.	8.0	22.9	840	6.72	3.73	Fe - 0.48	mg/L
4.							
5.							

*Take measurement at approximately each casing volume purged. ⊕

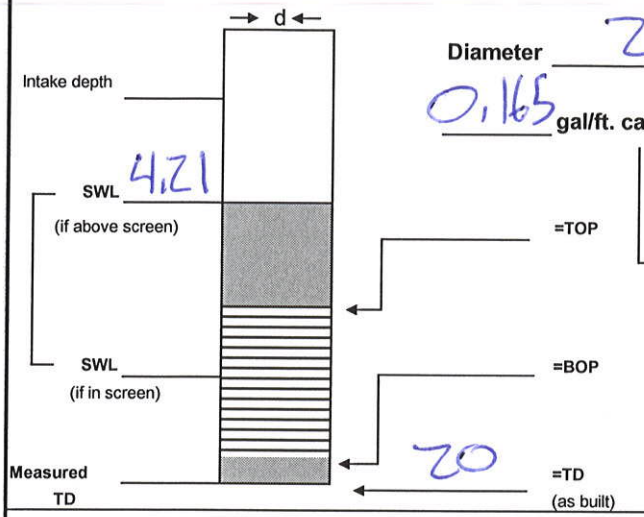
HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

WELL OR LOCATION MW-8

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DC | DATE 3-25-09



Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	1329	0.5	
	1330		7.29
	1335		7.46
	1340		8.52
Stop	1345		8.29
Sampled	1355		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 15.79 ft. (SWL to TD) = 2.61 gals. (one volume) X 3 = 7.82 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent pump to purge
Disp Bailer to sample

Actual gallons purged 8.0

Actual volumes purged 3.07

Well Yield ⊕ HY

COC #

Additional Comments:

out of gas @ 1338
restart purge @ 1339

Sample I.D.	Analysis	Lab
MW-8	8260	Accutest
↓	8015M	↓

	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1.	2.0	22.9	1034	6.89	2.99	DO- 1.89 mg/L
2.	3.0	22.5	1019	6.93	2.66	ORP- -5mV
3.	5.0	22.1	1030	6.94	1.56	Fe- 0.44 mg/L
4.						
5.						

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

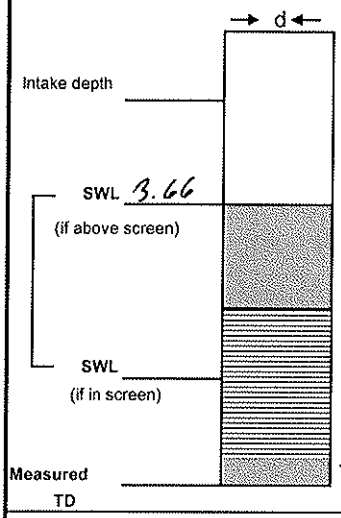
WELL OR LOCATION MW-9

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DB | DATE 3/25/09

Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	13:35	1.6	3.66
Stop	13:55		
Sampled	14:00		
Final IWL			6.75

PURGE CALCULATION

0.165 gal/ft. * 16.34 ft. (SWL to TD) = 2.69 gals. (one volume) X 3 = 8.09 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent. pump used to purge; disp. bailer used to sample.

Actual gallons purged: 9

Actual volumes purged: 3.35

Well Yield ⊕: HY

COC #

Sample I.D.	Analysis	Lab
MW-9	8260	Accutest
↓	8015m	↓

Additional Comments:

Pumped dry twice; recovered quickly. (slowed rate)

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1. 2	23.3	1002	7.16	114.9	DO: 5.29	mg/L
2. 4	22.9	1008	7.14	62.5	ORP: 132	mV
3. 6	22.7	1020	7.12	42.4	Fe: 0.76	mg/L
4.						
5.						

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

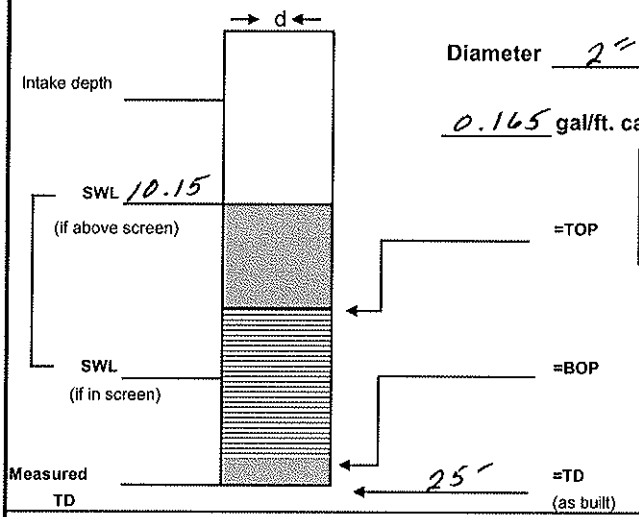
WELL OR LOCATION mw-10

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DB | DATE 3/25/09

Well type mw (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	12:45	0.8	10.15
Stop	12:55		
Sampled	13:00		
Final IWL			10.42

PURGE CALCULATION

0.165 gal/ft. * 14.85 ft. (SWL to TD) = 2.45 gals. (one volume) X 3 = 7.35 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent. pump used to purge; disp. bailer used to sample.

Actual gallons purged: 8

Actual volumes purged: 3.27

Well Yield ⊕: HY

COC #

Sample I.D.	Analysis	Lab
mw-10	8260	Accutest
↓	8015m	↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1. 2	22.1	704	7.36	49.87	DO: 1.78	mg/L
2. 4	22.3	716	7.32	24.2	ORP: -40	mV
3. 6	22.3	722	7.31	8.71	Fe: 1.19	mg/L
4.						
5.						

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

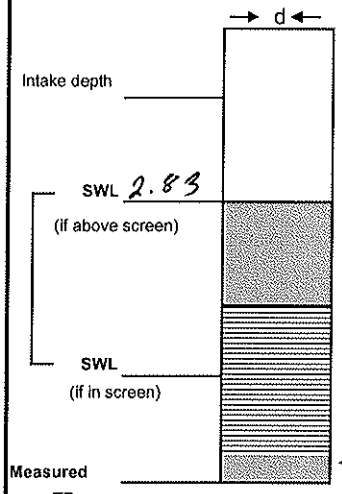
WELL OR LOCATION MW-11

PROJECT AC Transit Emeryville | EVENT 1Q2009 | SAMPLER DB | DATE

Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing



ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	11:55	0.46	2.83
Stop	12:10		
Sampled	12:10		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 13.17 ft. (SWL to TD) = 2.17 gals. (one volume) X 3 = 6.5 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent. pump used to purge; disp. bailer used to sample.

Actual gallons purged: 7

Actual volumes purged: 3.23

Well Yield ⊕: HY

COC #

Sample I.D.	Analysis	Lab
MW-11	8260	Accutest
↓	8015M	↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1. 2	22.6	648	7.45	38.67	DO: 1.79	mg/L
2. 4	22.7	652	7.42	12.24	ORP: 89	mV
3. 6	22.6	655	7.42	8.71	Fe: 0.99	mg/L
4.						
5.						

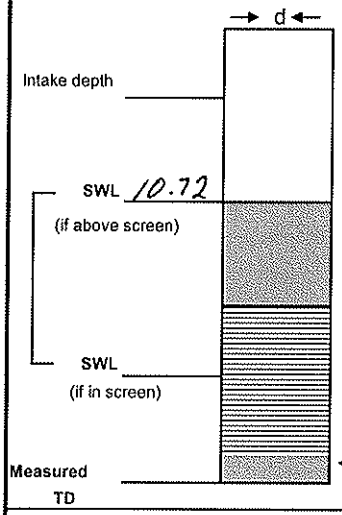
*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

SAMPLING EVENT DATA SHEET

WELL OR LOCATION mw - 12

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER DB DATE



Well type mw (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	10:35	1.0	10.72
Stop	10:45		
Sampled	10:50		
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 19.28 ft. (SWL to TD) = 3.18 gals. (one volume) X 3 = 9.54 gals. (purge volume - 3 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent. pump used to purge; disp bailer used to sample.

Actual gallons purged 10

Actual volumes purged 3.14

Well Yield ⊕ HY

COC #

Sample I.D.	Analysis	Lab
mw-12	8260	Accutest
↓	8015m	↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1. 3	22.2	795	7.13	1100+	DO: 2.24	mg/L
2. 6	22.1	810	7.10	370.0	ORP: 66	mV
3. 8	22.1	808	7.10	42.1	Fe: 2.73	mg/L
4.						
5.						

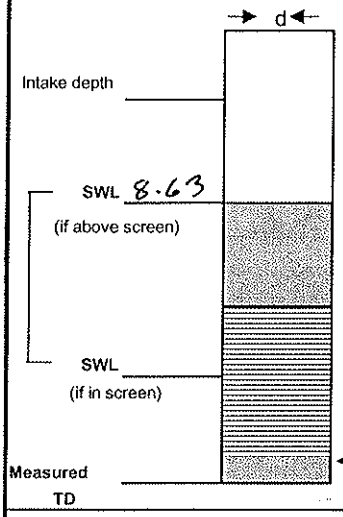
*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

WELL DEVELOPMENT DATA SHEET

WELL OR LOCATION MW-14

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER DB DATE 3/25/09



Well type MW (MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	09:00	0.55	8.63
Stop	09:45		
Sampled	09:50		
Final IWL			10.60

PURGE CALCULATION

0.165 gal/ft. * 14.37 ft. (SWL to TD) = 2.37 gals. (one volume) X 10 23.71 gals. (purge volume - 10 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent. pump used to purge.

Actual gallons purged 25

Actual volumes purged 10.54

Well Yield ⊕ HY

Well Casing	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1	17	18.64	996	6.12	34.1	00: 3.06 mg/L
2	20	18.72	1016	6.10	20.7	ORP: 139 mV
3	22	18.74	1010	6.11	20.2	Fe: 0.68 mg/L
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

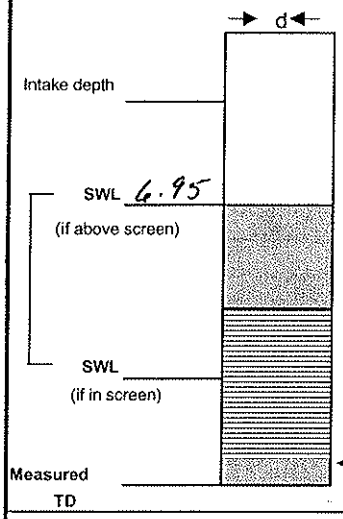
*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returing later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

WELL DEVELOPMENT DATA SHEET

WELL OR LOCATION MW-15

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER DB DATE 3/24/09



Well type MW
(MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	10:44	0.42	
Stop	13:30		19.60
Sampled	13:35		18.40
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 18.05 ft. (SWL to TD) = 2.98 gals. (one volume) X 10 29.78 gals. (purge volume - 10 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Cent. pump used to purge.

Actual gallons purged 75

Actual volumes purged 25.17

Well Yield ⊕ MY

Well Casing	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1	25	19.27	1220	6.71	978.0	DO: 2.66 mg/L
2	50	19.32	1240	6.76	628.0	ORP: 47 mV
3	60	19.36	1240	6.78	42.3	Fe: 2.08 mg/L
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

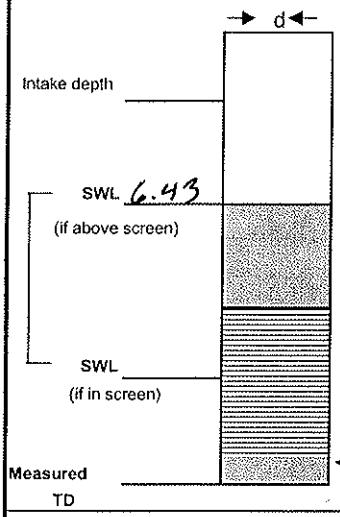
*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returing later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE

WELL DEVELOPMENT DATA SHEET

WELL OR LOCATION MW-16

PROJECT AC Transit Emeryville EVENT 1Q2009 SAMPLER DB DATE 3/24/09



Well type MW
(MW, EW, PZ, etc.)

Diameter 2"

0.165 gal/ft. casing

ACTION	TIME	PUMP RATE (gpm)	DTW
Start Pump / Begin	14:25	0.67	
Stop	15:10		
Sampled			
Final IWL			

PURGE CALCULATION

0.165 gal/ft. * 17.57 ft. = 2.90 gals. X 10 = 28.99 gals.

(SWL to TD; one volume; purge volume - 10 casings)

2" = 0.165 gal/ft. 4" = 0.65 gal/ft. 6" = 1.47 gal/ft.

Equipment Used / Sampling Method / Description of Event:

Actual gallons purged 30

Actual volumes purged 10.34

Well Yield ⊕ MY

Well Casing	Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1	22	18.61	1280	6.77	349.0	DO: 4.18 mg/L
2	25	18.65	1270	6.79	110.1	ORP: 40 mV
3	27	18.69	1270	6.77	43.7	Fe: 3.30 mg/L
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

*Take measurement at approximately each casing volume purged. ⊕ HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump LY - Able to purge 3 volumes by returing later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

Northern California ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/29/09

Technical Report for

Cameron-Cole

T0600118672-AC Transit, Emeryville, CA

2036-001

Accutest Job Number: C4945

Sampling Dates: 03/24/09 - 03/25/09

Report to:

Cameron-Cole

dbaker@cameron-cole.com

ATTN: Dennis Baker

Total number of pages in report: **43**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

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.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Diane Theesen 408-588-0200

Certifications: CA (08258CA)

Sections: 1 2 3 4

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Sample Summary

Cameron-Cole

Job No: C4945

T0600118672-AC Transit, Emeryville, CA
Project No: 2036-001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C4945-1	03/24/09	13:30	SS	03/27/09	AQ	Trip Blank Water	TB-01
C4945-2	03/24/09	14:10	SS	03/27/09	AQ	Ground Water	W-1
C4945-3	03/24/09	15:00	SS	03/27/09	AQ	Ground Water	MW-1
C4945-4	03/24/09	15:25	SS	03/27/09	AQ	Ground Water	MW-2
C4945-5	03/25/09	09:45	SS	03/27/09	AQ	Ground Water	MW-3
C4945-6	03/25/09	10:40	SS	03/27/09	AQ	Ground Water	MW-4
C4945-7	03/25/09	11:20	SS	03/27/09	AQ	Ground Water	MW-5
C4945-8	03/25/09	12:15	SS	03/27/09	AQ	Ground Water	MW-6
C4945-9	03/25/09	13:05	SS	03/27/09	AQ	Ground Water	MW-7
C4945-10	03/25/09	13:55	SS	03/27/09	AQ	Ground Water	MW-8
C4945-11	03/24/09	13:35	SS	03/27/09	AQ	Ground Water	MW-15
C4945-12	03/24/09	15:10	SS	03/27/09	AQ	Ground Water	MW-16
C4945-13	03/25/09	09:50	SS	03/27/09	AQ	Ground Water	MW-14

Sample Summary
(continued)

Cameron-Cole

Job No: C4945

T0600118672-AC Transit, Emeryville, CA
Project No: 2036-001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C4945-14	03/25/09	10:50	SS	03/27/09	AQ	Ground Water	MW-12
C4945-15	03/25/09	12:10	SS	03/27/09	AQ	Ground Water	MW-11
C4945-16	03/25/09	13:00	SS	03/27/09	AQ	Ground Water	MW-10
C4945-17	03/25/09	14:00	SS	03/27/09	AQ	Ground Water	MW-9

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Cameron-Cole **Job No** C4945

Site: T0600118672-AC Transit, Emeryville, CA **Report Date** 4/10/2009 10:21:28 AM

16 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 03/24/2009 and 03/25/2009 and were received at Accutest on 03/27/2009 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of C4945. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VW178

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) C4945-7MS, C4945-7MSD were used as the QC samples indicated.

Matrix AQ **Batch ID:** VW179

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) C4945-15MS, C4945-15MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015B M

Matrix AQ **Batch ID:** OP829

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix AQ **Batch ID:** OP832

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-01		
Lab Sample ID:	C4945-1	**Date Sampled:**	03/24/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5250.D	1	04/02/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		60-130%
2037-26-5	Toluene-D8	102%		60-130%
460-00-4	4-Bromofluorobenzene	94%		60-130%

ND = Not detected
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

Client Sample ID:	W-1		
Lab Sample ID:	C4945-2	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5277.D	10	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	10.9	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
1330-20-7	Xylene (total)	ND	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
	TPH-GRO (C6-C10)	3850	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	97%		60-130%

ND = Not detected
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

Client Sample ID:	W-1		
Lab Sample ID:	C4945-2	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4662.D	1	03/30/09	JH	03/30/09	OP829	GGG179
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28) [a]	0.637	0.096	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	76%		45-140%

(a) Not a typical Diesel pattern. Higher boiling gasoline compounds in Diesel range (C10-C16).

ND = Not detected
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

Client Sample ID:	MW-1		
Lab Sample ID:	C4945-3	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5257.D	1	04/02/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	94%		60-130%

ND = Not detected
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

Client Sample ID:	MW-1		
Lab Sample ID:	C4945-3	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4663.D	1	03/30/09	JH	03/30/09	OP829	GGG179
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.10	mg/l	
	TPH (> C28-C40)	ND	0.20	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	69%		45-140%

ND = Not detected
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

Client Sample ID:	MW-2		
Lab Sample ID:	C4945-4	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5258.D	1	04/02/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		60-130%
2037-26-5	Toluene-D8	102%		60-130%
460-00-4	4-Bromofluorobenzene	97%		60-130%

ND = Not detected
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

Client Sample ID:	MW-2		
Lab Sample ID:	C4945-4	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4664.D	1	03/30/09	JH	03/30/09	OP829	GGG179
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.097	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	81%		45-140%

ND = Not detected
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

Client Sample ID:	MW-3		
Lab Sample ID:	C4945-5	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5259.D	1	04/02/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		60-130%
2037-26-5	Toluene-D8	100%		60-130%
460-00-4	4-Bromofluorobenzene	93%		60-130%

ND = Not detected
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

Client Sample ID:	MW-3		
Lab Sample ID:	C4945-5	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4711.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.11	mg/l	
	TPH (> C28-C40) [a]	0.654	0.21	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	85%		45-140%

(a) Petroleum hydrocarbon pattern elutes primarily between C14 and C36.

ND = Not detected
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

Client Sample ID:	MW-4		
Lab Sample ID:	C4945-6	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5260.D	1	04/02/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	93%		60-130%

ND = Not detected
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

Client Sample ID:	MW-4		
Lab Sample ID:	C4945-6	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4714.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.095	mg/l	
	TPH (> C28-C40) [a]	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	81%		45-140%

(a) Petroleum hydrocarbon pattern elutes primarily between C14 and C36.

ND = Not detected
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

Client Sample ID:	MW-5		
Lab Sample ID:	C4945-7	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5261.D	1	04/02/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	93%		60-130%

ND = Not detected
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

Client Sample ID:	MW-5		
Lab Sample ID:	C4945-7	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4715.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.095	mg/l	
	TPH (> C28-C40) [a]	0.252	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	69%		45-140%

(a) Petroleum hydrocarbon pattern elutes primarily between C14 and C36.

ND = Not detected
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

Client Sample ID:	MW-6		
Lab Sample ID:	C4945-8	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5279.D	2	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	8.9	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	2.9	2.0	ug/l	
1330-20-7	Xylene (total)	ND	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	785	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		60-130%
2037-26-5	Toluene-D8	106%		60-130%
460-00-4	4-Bromofluorobenzene	96%		60-130%

ND = Not detected
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

Client Sample ID:	MW-6		
Lab Sample ID:	C4945-8	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH2598.D	3	04/01/09	JH	03/31/09	OP832	GHH129
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	2.61	0.29	mg/l	
	TPH (> C28-C40)	ND	0.57	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	62%		45-140%

ND = Not detected
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

Client Sample ID:	MW-7		
Lab Sample ID:	C4945-9	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5263.D	1	04/03/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
	TPH-GRO (C6-C10)	529	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	97%		60-130%

ND = Not detected
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

Client Sample ID:	MW-7		
Lab Sample ID:	C4945-9	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4717.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.099	mg/l	
	TPH (> C28-C40) [a]	0.326	0.20	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	76%		45-140%

(a) Petroleum hydrocarbon pattern elutes primarily between C14 and C36.

ND = Not detected
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

Client Sample ID:	MW-8		
Lab Sample ID:	C4945-10	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5280.D	1	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	ug/l	
	TPH-GRO (C6-C10)	72.8	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		60-130%
2037-26-5	Toluene-D8	105%		60-130%
460-00-4	4-Bromofluorobenzene	99%		60-130%

ND = Not detected
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

Client Sample ID:	MW-8		
Lab Sample ID:	C4945-10	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4718.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.095	mg/l	
	TPH (> C28-C40) [a]	0.265	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	82%		45-140%

(a) Petroleum hydrocarbon pattern elutes primarily between C14 and C36.

ND = Not detected
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

Client Sample ID:	MW-15		
Lab Sample ID:	C4945-11	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5265.D	1	04/03/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.0	1.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	92%		60-130%

ND = Not detected
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

Client Sample ID:	MW-15		
Lab Sample ID:	C4945-11	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4665.D	1	03/30/09	JH	03/30/09	OP829	GGG179
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.095	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	75%		45-140%

ND = Not detected
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

Client Sample ID:	MW-16		
Lab Sample ID:	C4945-12	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5266.D	1	04/03/09	BD	n/a	n/a	VW178
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.3	1.0	ug/l	
	TPH-GRO (C6-C10)	62.9	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	95%		60-130%

ND = Not detected
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

Client Sample ID:	MW-16		
Lab Sample ID:	C4945-12	**Date Sampled:**	03/24/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4666.D	1	03/30/09	JH	03/30/09	OP829	GGG179
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.096	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	79%		45-140%

ND = Not detected
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

Client Sample ID:	MW-14		
Lab Sample ID:	C4945-13	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5286.D	1	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.8	1.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		60-130%
2037-26-5	Toluene-D8	105%		60-130%
460-00-4	4-Bromofluorobenzene	90%		60-130%

ND = Not detected
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

Client Sample ID:	MW-14		
Lab Sample ID:	C4945-13	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4719.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.095	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	86%		45-140%

ND = Not detected
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

Client Sample ID:	MW-12		
Lab Sample ID:	C4945-14	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5287.D	1	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.3	1.0	ug/l	
	TPH-GRO (C6-C10)	89.0	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		60-130%
2037-26-5	Toluene-D8	105%		60-130%
460-00-4	4-Bromofluorobenzene	91%		60-130%

ND = Not detected
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

Client Sample ID:	MW-12		
Lab Sample ID:	C4945-14	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4720.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.096	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	88%		45-140%

ND = Not detected
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

Client Sample ID:	MW-11		
Lab Sample ID:	C4945-15	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5288.D	1	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	90%		60-130%

ND = Not detected
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

Client Sample ID:	MW-11		
Lab Sample ID:	C4945-15	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4721.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.099	mg/l	
	TPH (> C28-C40)	ND	0.20	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	86%		45-140%

ND = Not detected
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

Client Sample ID:	MW-10		
Lab Sample ID:	C4945-16	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5289.D	1	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
	TPH-GRO (C6-C10)	173	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		60-130%
2037-26-5	Toluene-D8	106%		60-130%
460-00-4	4-Bromofluorobenzene	92%		60-130%

ND = Not detected
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

Client Sample ID:	MW-10		
Lab Sample ID:	C4945-16	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4722.D	1	03/31/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	0.948	0.097	mg/l	
	TPH (> C28-C40)	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	91%		45-140%

ND = Not detected
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

Client Sample ID:	MW-9		
Lab Sample ID:	C4945-17	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W5290.D	1	04/03/09	BD	n/a	n/a	VW179
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	91%		60-130%

ND = Not detected
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

Client Sample ID:	MW-9		
Lab Sample ID:	C4945-17	**Date Sampled:**	03/25/09
Matrix:	AQ - Ground Water	**Date Received:**	03/27/09
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	T0600118672-AC Transit, Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG4738.D	4	04/01/09	JH	03/31/09	OP832	GGG180
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	0.39	mg/l	
	TPH (> C28-C40)	4.80	0.78	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	94%		45-140%

ND = Not detected
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

Northern California
ACCUTEST Laboratories

CHAIN OF CUSTODY

3334 Victor Court, Santa Clara, CA 95054
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #: CCCAA1635
Accutest NC Job #: C4945

Client / Reporting Information

Company Name: Cameron-Cole
Address: 101 W. Atlantic Ave #90
City: Alameda State: CA Zip: 94501
Project Contact: Shawn Suzuki
Phone #: 510 769 3574
Samplers's Name:

Project Information

Project Name: AC Emeryville
Street: 45th St
City: Emeryville State: CA
Project #: 20316-001
EMAIL: ssuzuki@cameron-cole.com
Client Purchase Order #:

Requested Analysis: 8260 Full List ☐ 624 ☐ with/TPH as Gasoline; 8260Petro (includes BTEX / MtBE / TBA / EtBE / DIPE / TAME / 1,2-DCA / EDB ☐ TPH as Gas ☐); 8270 ☐ PAHs only ☐ 625 ☐ +TICs ☐; TPH-Extractable - Diesel - Motor Oil - Other ☐ With Silica Gel Cleanup ☐; METALS: CAM-17☐ LUFT-5☐ RCRA-8☐ PPM-13☐; Pesticides-8081 ☐ PCBs-8082 ☐ 608 ☐; BTEX-MtBE-TPH as Gasoline by GC/PID-FID ☐; Gas, BTEX, MTBE 8260; diesel/motor oil 8015M; W/SGCU per Shawn

Matrix Codes: WW- Water; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	Gas, BTEX, MTBE 8260	diesel/motor oil 8015M	LAB USE ONLY
-1	TB-01	3-24-09	1330	DL	GW	3	3								X	[crossed out]	
-2	W-1	↓	1410	↓	↓	5	3				2				↓	X	
-3	MW-1	↓	1500	↓	↓	↓	↓				↓				↓	↓	
-4	MW-2	↓	1525	↓	↓	↓	↓				↓				↓	↓	
-5	MW-3	3-25-09	0945	↓	↓	↓	↓				↓				↓	↓	
-6	MW-4	↓	1040	↓	↓	↓	↓				↓				↓	↓	
-7	MW-5	↓	1120	↓	↓	↓	↓				↓				↓	↓	
-8	MW-6	↓	1215	↓	↓	↓	↓				↓				↓	↓	
-9	MW-7	↓	1305	↓	↓	↓	↓				↓				↓	↓	
-10	MW-8	↓	1355	↓	↓	↓	↓				↓				↓	↓	

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☒ 10 Day (~~Workload dependent~~) Standard
- ☐ 5 Day (Workload dependent)
- ☐ 3 Day (125% markup)
- ☐ 2 Day (150% markup)
- ☐ 1 Day (200% markup)
- ☐ Same Day (300% markup)

Approved By:/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A"
- ☒ Commercial "B"
- ☒ EDF for Geotracker
- ☒ EDD Format

Provide EDF Global ID: T0600118672
Provide EDF Logcode:

Comments / Remarks

No 8015M for TB-01,
3vials each (10/HCL)
2Lit Ambers each N/P
cooler # 1 → 2.8°C
2 → 3.2°C
3 → 1.6°C

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	3/27/09 0850	1 [signature]	2 [signature]	3/27/09 11:24	2 [signature]
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

Appropriate Bottle / Pres (Y) N; Headspace Y (N); On Ice (Y) N; Cooler Temp. 3 coolers °C
Labels match Coc (Y) N; Separate Receipt Log Y (N)

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C4945: Chain of Custody
Page 1 of 3

Northern California ACCUTEST Laboratories

CHAIN OF CUSTODY

3334 Victor Court, Santa Clara, CA 95054
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C4945

Client / Reporting Information

Company Name: Cameron-Cole
Address: 101 W. Atlantic Ave #40
City: Alameda State: CA Zip: 94501
Project Contact: Shaun Sureni
Phone #: 510 769 3579
Samplers's Name:

Project Information

Project Name: AC Emeryville
Street: 45th St,
City: Emeryville State: CA
Project #: 2036-001
EMAIL: SSureni@cameron-cole.com
Client Purchase Order #:

Requested Analysis

8260 Full List ☐ 624 ☐ with/TPH as Gasoline
8260Petro (Includes BTEX / MBE / TBA / EtBE / DIPE / TAME / 1,2-DCA / EDB ☐ TPH as Gas ☐
8270 ☐ PAHs only ☐ 625 ☐ +TICs ☐
TPH-Extractable - Diesel - Motor Oil - Other ☐ With Silica Gel Cleanup ☐
METALS: CAM-17☐ LUFT-5☐ RCRA-8☐ PPM-13☐
Pesticides-8081 ☐ PCBs-8082 ☐ 608 ☐
BTEX-MtBE-TPH as Gasoline by GC/PID-FID ☐
gas, BTEX, mtbe 8260
diesel/motor oil 8015M
SEQU

Matrix Codes

WW- Water
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

LAB USE ONLY

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE
-11	MW-15	3-24-09	1335	DB	GW	5	3				2			
-12	MW-16	1	1510											
-13	MW-14	3-25-09	0950											
-14	MW-12		1050											
-15	MW-11		1210											
-16	MW-10		1300											
-17	MW-9		1400											

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ 10 Day ~~(Workload dependent)~~ standard
- ☐ 5 Day (Workload dependent)
- ☐ 3 Day (125% markup)
- ☐ 2 Day (150% markup)
- ☐ 1 Day *(200% markup)*
- ☐ Same Day (300% markup)

Approved By:/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A"
- ☒ Commercial "B"
- ☐
- ☐
- ☑ EDF for Geotracker
- EDD Format
- Provide EDF Global ID: T0600118672
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		3/27/09 0845	1	2	3/27/09 11:24	2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; Separate Receipt Log Y / N; On Ice Y / N; Cooler Temp. ____oC

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C4945: Chain of Custody
Page 2 of 3

Accutest Laboratories Northern California
STANDARD OPERATING PROCEDURE

Sample Receiving Checklist

Job # C4945
Sample Control Initial EK

Review Chain of Custody The Chain of Custody is to be completely and legibly filled out by Client.

- ☑ Are these regulatory (NPDES) samples? Yes / (No) circle one
- ☐ Is pH requested? Yes / (No) circle one ☐ Was Client informed that hold time is 15 min? Yes / No circle one
  If yes, did Client consent to continue? ____
- ☑ Are sample within hold time? (Yes) / No circle one Are sample in danger of exceeding its hold-time within 6-48 hours?
- ☑ Report to info is complete and legible, including;
  ☑ Type of deliverable needed ☑ Name ☑ Address ☑ phone ☑ e-mail
- ☐ Bill to info is complete and legible, including; ☐ PO# ☐ Credit card ☐ Contact ☐ address ☐ phone ☐ e-mail
- ☑ Contact and/or Project Manager identified, including; ☑ phone ☑ e-mail
- ☑ Project name / number ☐ Special requirements? (Yes) / No circle one
- ☑ Sample IDs / date & time of collection provided? (Yes) / No circle one
- ☑ Is Matrix listed and correct? (Yes) / No circle one
- ☑ Analyses listed are those we do or client has authorized a subcontract? (Yes) / No circle one
- ☑ Chain is signed and dated by both client and sample custodian? (Yes) / No circle one
- ☑ TAT requested available? Approved by EK

Review Coolers: Cooler # 1 : 2.8°C ; Cooler #2 : 3.2 , # 3 - 1.6°C

- ☑ Were Coolers temperatures measured at ≤6°C? Cooler # 1-3 Temp ____ °C
  - If cooler is outside the ≤6°C; note down below the affected bottles in that cooler
  - Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)
- ☑ Shipment Method AC
- ☐ Custody Seals: Present : Yes / (No) circle one Unbroken: (Yes) / No circle one

Review of Sample Bottles: If you answer no, explain below

- ☐ Sample ID / bottle number / Date / Time of bottle labels match the COC? (Yes) / No circle one
- ☐ Sample bottle intact? (Yes) / No circle one
- ☐ Is there enough samples for requested analyses? If so, were samples placed in proper containers? (Yes) / No circle one
- ☐ Proper Preservatives? Check pH on preserved samples except 1664, 625, 8270 and (VOAs) and list below
- ☐ Are VOAs received without headspace? Size of bubble **(not greater than 6mm in diameter)** (Yes) / No circle one

List sample ID and affected container

Lab #	Client Sample ID	pH Check	Other Comments/Issues

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

\\Anc-srv-file1\Entech-Data\Laboratory\Sample_Control\Form_Sample Receipt Checklist_Rev0.doc

C4945: Chain of Custody
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