

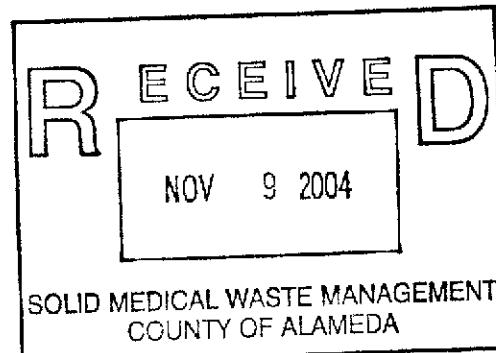


✓ R-402

Alameda-Contra Costa Transit District

November 2, 2004

Ms. eva chu
Alameda County Health Division
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502



Dear Ms. chu:

Subject: Quarterly Groundwater Monitoring Report – August 2004 Sampling
AC Transit, 1177 47th Street, Emeryville

AC Transit hereby submits the enclosed Quarterly Groundwater Monitoring and Technology Screening Reports for the AC Transit facility located at 1177 47th Street in Emeryville. These reports were prepared by our consultant, Cameron-Cole, LLC, and contain the results of the August 2004 sampling event.

The quarterly groundwater monitoring included collecting groundwater samples from eight on-site monitoring wells (MW-1, MW-2, MW-3, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12 and MW-13). A groundwater sample was not collected from MW-13 due to the presence of a 12.72-inch free phase hydrocarbon layer. These samples were analyzed for total petroleum hydrocarbons (TPH) using modified EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) using EPA Method 8021B. No analytes were detected in samples collected from MW-11. TPH as degraded diesel was detected in MW-1 at a concentration of 310 ppb. TPH as degraded gasoline was detected in MW-7, MW-10, MW-12 and W-1 at 200, 240, 430 and 2500 ppb, respectively.

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

Sincerely,

Suzanne Patton

Suzanne Patton, P.E.
Environmental Engineer
enclosures

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

October 2004

Prepared For:
Ms. Suzanne Patton
AC Transit
10626 E. 14th Street
Oakland, California 94603

Prepared By:
Cameron-Cole
101 W. Atlantic Avenue
Building 90
Alameda, California 94501

Project No: 2016



**GROUNDWATER MONITORING
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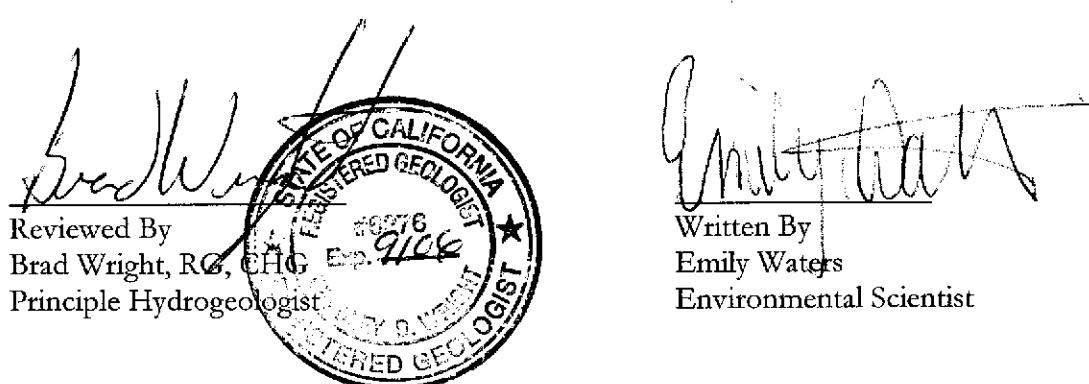


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INTRODUCTION

This report presents the results from the August 2004 sampling event for the AC Transit Facility located at 1177 47th Street, Emeryville, California (Site). Groundwater sampling of monitor wells MW-1, MW-2, MW-3, MW-6, MW-7 MW-9, MW-10, MW-11, MW-12, MW-13 and W-1 was conducted in accordance with directives from Alameda County Health Care Services (ACHCS). In a letter dated August 7, 2001, ACHCS requested quarterly groundwater sampling for monitor wells MW-11, MW-12 and MW-13 and semi-annual groundwater sampling of other Site monitor wells. AC Transit retained Cameron-Cole to perform this work.

GROUNDWATER MONITORING

Work performed during this sampling event included measuring depth to water in all monitor wells and collecting groundwater samples from monitor wells MW-1 thru MW-3, MW-6, MW-7, MW-9 thru MW-12 and W-1. Groundwater samples were analyzed for total extractable petroleum hydrocarbons (TEPH) using Environmental Protection Agency (EPA) Method 8015 Modified and benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by EPA Method 8021B. A groundwater sample was not collected from MW-13 due to the presence of a free phase hydrocarbon layer.

A site map displaying the monitor well locations is presented as Figure 1. Chain-of-custody documents, field data sheets and certified analytical reports are included in Appendix A.

Groundwater Elevations and Flow Direction

On August 30, 2004, all 16 Site monitor wells were inspected and measured for the presence of free phase hydrocarbons and depth to groundwater. Measurements of depths to groundwater are presented on Table 1 and were used to construct the groundwater elevation contours shown in Figure 2. As shown, groundwater flow is to the west at a gradient of 0.022 feet/foot. A free phase hydrocarbon layer measuring 1.06 feet was detected in MW-13.

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 pH, electrical conductivity, dissolved oxygen, oxidation-reduction potential, ferrous iron and temperature were monitored using calibrated field meters.

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 8021B.

Groundwater Analytical Results

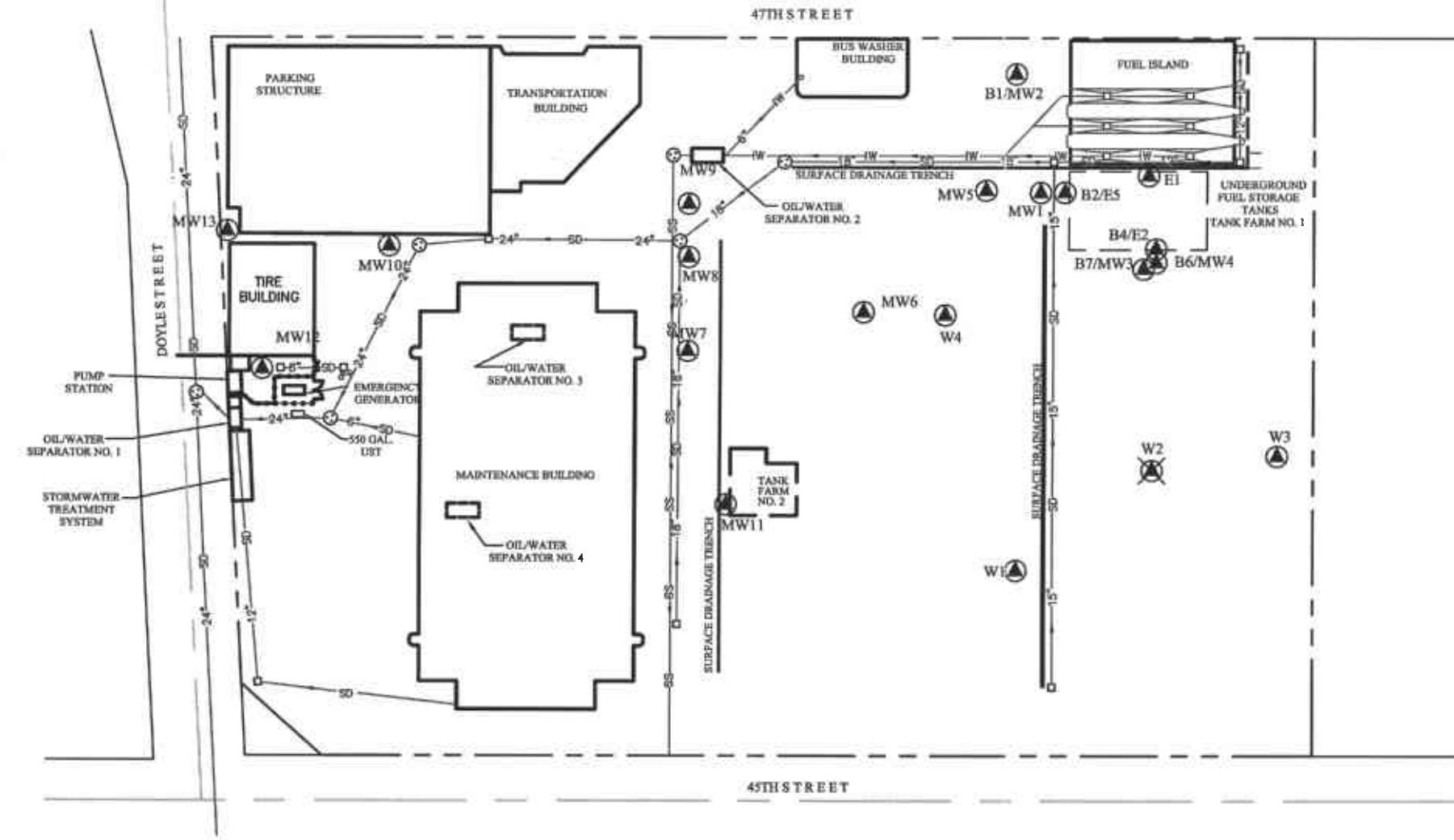
Table 2 presents groundwater analytical results for the August 2004 sampling event. TPH as degraded diesel was detected in monitor well MW-10 at concentrations of 310 parts per billion (ppb). TPH as degraded gasoline was detected in monitor wells MW-10, MW-12 and W-1 at concentrations of 240, 430 and 2500 pbb, respectively. The 8015 TPH gas and diesel data for MW-6 is an anomaly and will be evaluated in subsequent events. Benzene was detected above the State of California maximum contaminant level of 1.0 ppb in MW-6 at a concentration of 86 ppb. 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 0.022 feet/foot.
- TPH as degraded diesel was detected in MW-10 at 310 ppb.
- TPH as degraded gasoline was detected in MW-7, MW-10, MW-12 and W-1 at 200, 240, 430 and 2500 ppb, respectively.
- Benzene above the MCL of 1.0 ppb was detected in monitoring well MW-6 at 86 ppb.

PROJECTED WORK AND RECOMMENDATIONS

- Quarterly groundwater monitoring of monitoring wells MW-11, MW-12 and MW-13 including removal of the free product layer in MW-13 is scheduled for November 2004. This event will include site-wide depth to groundwater level measurements, including inspection of each monitor well for free-phase hydrocarbon.



LEGEND

- (•) MANHOLE
- (□) CATCH BASIN
- (▲) MONITORING WELL
- (X) ABANDONED MONITORING WELL
- SD — STORM DRAIN PIPELINE
- SS — SANITARY SEWER PIPELINE
- IW — INDUSTRIAL WASTE PIPELINE
- CHAIN LINK FENCE

BY	DATE
DRAWN WRB	10/25/02
CHECKED	
APPROVED	
APPROVED	
APPROVED	

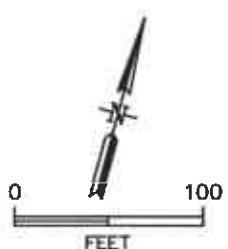


CAMERON-COLE

EMERYVILLE FACILITY - OAKLAND, CALIFORNIA

FIGURE 1
AC TRANSIT - MONITORING WELL LOCATION MAP

SCALE: 1" = 100' DWG. NO.: 2015-01



SAN PABLO AVENUE

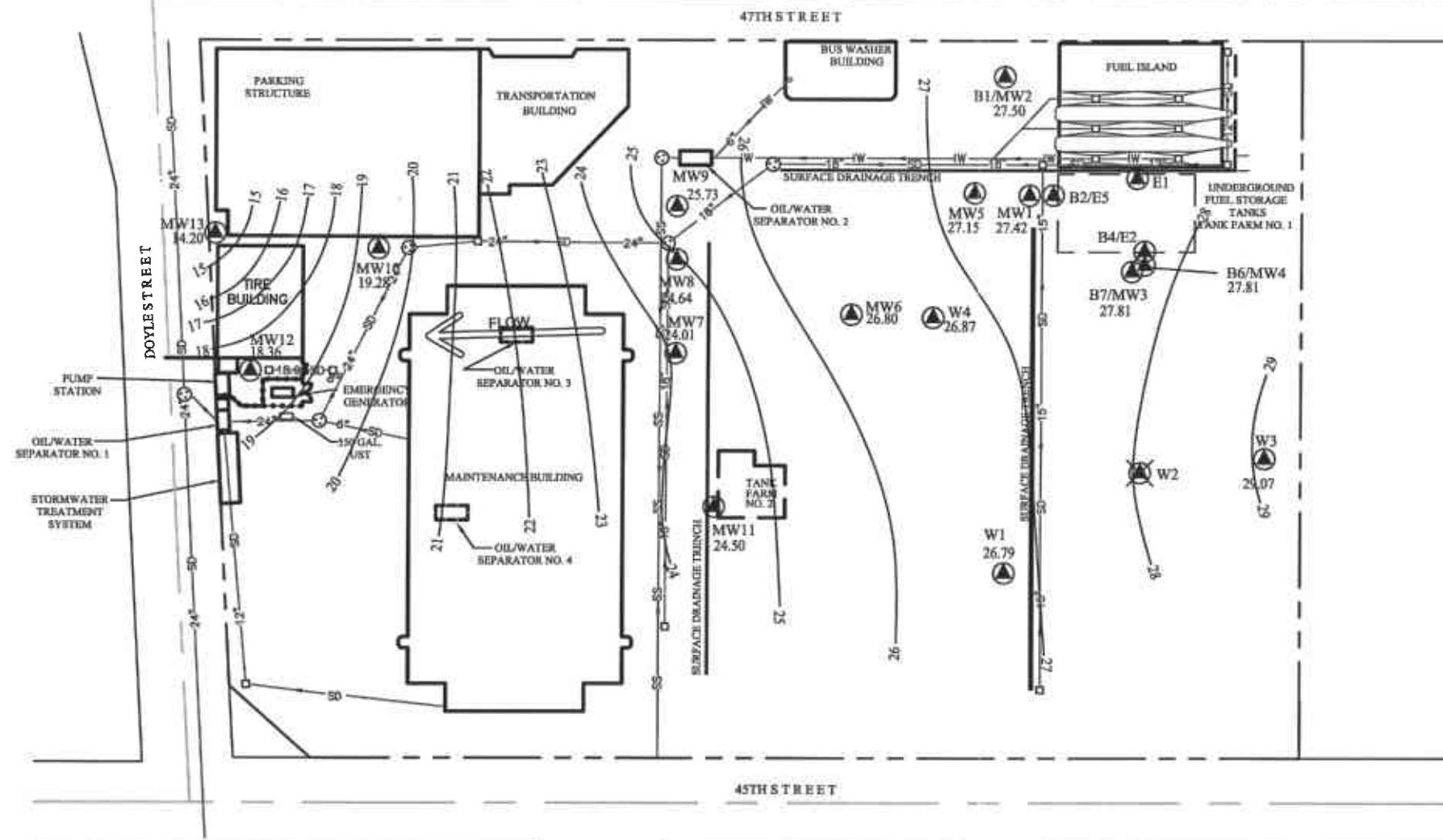


TABLE 1
GROUNDWATER LEVEL MEASUREMENTS
AC TRANSIT
1177 47TH STREET, EMERYVILLE, CALIFORNIA

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
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

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
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

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
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
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

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-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
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
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

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
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
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
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

TABLE I
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
	11/30/2003		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
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

Notes:

* used 0.8 specific gravity of product

ft-msl: feet mean sea level

DTW: Depth to water

NA: not applicable

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 (ppb)	None	None	1.0	150	700	1750
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
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
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

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 (ppb)	None	None	1.0	150	700	1750
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
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
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
	8/31/1999	1,400	NA	<1.0	2.9	2.3	27	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	<4.5

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 (ppb)	None	None	1.0	150	700	1750
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
	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
MW-9	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	<0.5	<0.5	<0.5	<0.5	<1.5	3.6
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
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

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 (ppb)	None	None	1.0	150	700	1750
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
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
W-1	5/16/2002	520	150	<1.0	<1.0	<1.0	<2.0	8.7
	3/2/2000	1,800	3400	20.0	5.3	30	23.8	<5.0
	5/17/2000	1,100	7300	35.0	11	59	45	<1.0
	8/31/2000	2,200	6200	20.0	7.9	36	38.2	<10
	12/19/2000	1,700	5600	20.0	8.4	30	35.6	<5.0
	3/20/2001	2,100	7200	32.0	13	56	40	<10
	6/7/2001	2,100	7300	26.0	18	42	38.3	<10
	9/21/2001	1,800	7100	27	<10	48	40	<10
	2/27/2002	1,800	7100	24	9	52	34	<25
	2/6/2003	990	5300	11	4.7	27	24	<1.0
	8/26/2003	1,700	5800	7.5	5.4	24	25	<10
	2/10/2004	940	6000	16.0	4.9	20	21	<1.0
	8/30/2004	<56	2500	8.6	3.6	11	18	<1.30
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
W-4	3/20/2001	630	<50	<1.0	<1.0	<1.0	<2.0	<5.0
	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

Notes:

ppb: parts per billion

TPH: Total Petroleum Hydrocarbons

MTBE: methyl tert butylether

MCL: Maximum Contaminant Level

NA: not analyzed

APPENDIX A

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

Entech Analytical Labs, Inc.

RECEIVED OCT 15 2004

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Emily Waters
Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501

Certificate ID: 40222 - 10/8/2004 1:20:03 PM

Order: 40222
Project Name: ACTransit Emeryville
Project Number: 2016

Date Collected: 8/30/2004
Date Received: 8/30/2004
P.O. Number: 2016

Certificate of Analysis - Revision

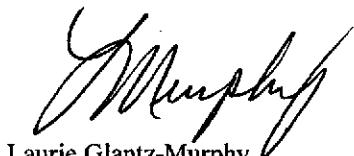
Note: This is a revision of the original 9/8/2004 issue to remove EPA 8260B and Nitrate analyses per client request.

On August 30, 2004, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>	<u>Comments</u>
Liquid	Sulfate by IC	EPA 300.0	
	TPH as Gasoline	EPA 8015 MOD. (Purgeable)	
	TPH-Extractable	EPA 8015 MOD. (Extractable)	Report Diesel ONLY

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

• Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-002 Sample ID: MW-6

Matrix: Liquid Sample Date: 8/30/2004 10:15 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	35		5	2.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: JZaininger
o-Terphenyl	70.0		22	- 133					Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: mruan
4-Bromofluorobenzene	108		65	- 135					Reviewed by: MTU

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab # : 40222-003 Sample ID: W-1 Matrix: Liquid Sample Date: 8/30/2004 10:45 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	3.0	1		0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: EQueja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND	1		56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A

Note: 1200ppb of lower boiling compounds(C8-C14). No Diesel pattern present.

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: JZaininger
o-Terphenyl	85.0	22 - 133		Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	2500	20		1000	µg/L	N/A	N/A	08/31/2004	WGC4040831

Note: Atypical pattern

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: mruan
4-Bromofluorobenzene	120	65 - 135		Reviewed by: MTU

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Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-004 Sample ID: MW-11 Matrix: Liquid Sample Date: 8/30/2004 11:15 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	30		1	0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: JZaininger
o-Terphenyl	71.0		22	- 133					Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: mruan
4-Bromofluorobenzene	102		65	- 135					Reviewed by: MTU

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-005 Sample ID: MW-3

Matrix: Liquid Sample Date: 8/30/2004 10:15 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	60		2	1	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Liq-Liq, Sep Funnel, MeCl

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: JZaininger
o-Terphenyl	84.0		22	- 133					Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: mruan
4-Bromofluorobenzene	95.3		65	- 135					Reviewed by: MTU

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Phone: (408) 588-0200

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Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-006 Sample ID: MW-2

Matrix: Liquid Sample Date: 8/30/2004 10:50 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	50		1	0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: JZaininger
o-Terphenyl	71.0		22	- 133					Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: mruan
4-Bromofluorobenzene	95.1		65	- 135					Reviewed by: MTU

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-007 Sample ID: MW-1 Matrix: Liquid Sample Date: 8/30/2004 11:15 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	50		1	0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Liq-Liq, Sep Funnel, MeCL

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: JZaininger
o-Terphenyl	78.0		22	- 133					Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831
Surrogate	Surrogate Recovery			Control Limits (%)					Analyzed by: mruan
4-Bromofluorobenzene	102		65	- 135					Reviewed by: MTU

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Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab # : 40222-008 Sample ID: MW-10

Matrix: Liquid Sample Date: 8/30/2004 11:55 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	ND		1	0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	310		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A

Note: Final result elevated due to the presence of possible gasoline compounds.

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
o-Terphenyl	77.0	22 - 133	JZaininger

Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	240		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831

Note: Atypical pattern

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	171***	65 - 135	mruan

Reviewed by: MTU

*** High surrogate recovery for BFB due to matrix interference.

• Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-009 Sample ID: MW-12

Matrix: Liquid Sample Date: 8/30/2004 12:30 PM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	4.1		1	0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	56	µg/L	08/30/2004	DW4799A	08/31/2004	DW4799A
Surrogate	Surrogate Recovery			Control Limits (%)					
o-Terphenyl	70.0		22	- 133					

Analyzed by: JZaininger

Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	430		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831
Note: Atypical pattern									
Surrogate Surrogate Recovery Control Limits (%)									

Analyzed by: mruan

Reviewed by: MTU

*** High surrogate recovery for BFB due to matrix interference.

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-010 Sample ID: MW-7

Matrix: Liquid Sample Date: 8/30/2004 11:55 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	2.0	1		0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Liq-Liq, Sep Funnel, MeCL

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND	1		56	µg/L	08/30/2004	DW4799A	09/01/2004	DW4799A

Note: 120ppb of lower boiling compounds (C14-C26). No Diesel pattern present.

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: JZaininger
o-Terphenyl	58.0	22 - 133		Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	200	1		50	µg/L	N/A	N/A	08/31/2004	WGC4040831

Note: Atypical pattern

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: mruan
4-Bromofluorobenzene	163***	65 - 135		Reviewed by: MTU

*** High surrogate recovery for BFB due to matrix interference.

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3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 8/30/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40222-011 Sample ID: MW-9

Matrix: Liquid Sample Date: 8/30/2004 12:30 PM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Sulfate	12		1	0.5	mg/L	N/A	N/A	09/07/2004	WIC040830B

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Liq-Liq, Sep Funnel, MeCl

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	50	µg/L	08/30/2004	DW4799A	09/02/2004	DW4799A

Note: 460 ppb unidentified Hydrocarbons(C13-C4). No Diesel pattern present.

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: JZaininger
o-Terphenyl	60.0	22 - 133		Reviewed by: MTU

Method: EPA 8015 MOD. (Purgeable) / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	08/31/2004	WGC4040831

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: muan
4-Bromofluorobenzene	102	65 - 135		Reviewed by: MTU

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Quality Control - Method Blank

Liquid

Validated by: MTU - 09/07/04

OC Batch ID: WGC4040831

Analysis Date: 8/31/2004

Method Blank		Method: EPA 8015 MOD. (Purgeable)			
Parameter		Result	DF	PQLR	Units
TPH as Gasoline		ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits			
4-Bromofluorobenzene	96.8	65 - 135			

Quality Control - Laboratory Control Spike / Duplicate Results

Liquid

Reviewed by: MTU - 09/07/04

QC Batch ID: WGC4040831

Analysis Date: 8/31/2004

Quality Control - Matrix Spike / Duplicate Results

Liquid

Reviewed by: MTU - 09/07/04

QC Batch ID: WGC4040831

Analysis Date: 8/31/2004

Method EPA 8015 MOD. (Purgeable)								Conc. Units: µg/L		
Parameter		Sample Result	Spike Amount	Spike Result	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
MS	SampleNumber:	40222-011								
TPH as Gasoline		ND	250	250	MS	8/31/2004	100			65 - 135
Surrogate	% Recovery	Control Limits								
4-Bromofluorobenzene	104	65	-	135						
MSD	SampleNumber:	40222-011								
TPH as Gasoline		ND	250	276	MSD	8/31/2004	110	9.7	25	65 - 135
Surrogate	% Recovery	Control Limits								
4-Bromofluorobenzene	98.2	65	-	135						

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Quality Control - Method Blank

Liquid

Prep Batch ID: DW4799A

QC Batch ID: DW4799A

Prep Date: 8/30/2004

Analysis Date: 8/31/2004

Method Blank		Method: EPA 8015 MOD. (Extractable)			
Parameter		Result	DF	PQLR	Units
TPH as Diesel		ND	1	56	µg/L
Surrogate for Blank	% Recovery	Control Limits			
o-Terphenyl	63.0	22	-	133	

Quality Control - Laboratory Control Spike / Duplicate Results

Liquid

Prep Batch ID: DW4799A

QC Batch ID: DW4799A

Prep Date: 8/30/2004

Analysis Date: 8/31/2004

LCSD	Method: EPA 8015 MOD. (Extractable)						Conc. Units: µg/L		
Parameter	Blank	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	720	LCSD	8/31/2004	72.0	10.2	25	35 - 109
<hr/>									
Surrogate	% Recovery	Control Limits							
o-Terphenyl	67	22	-	133					

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Quality Control - Method Blank

Liquid

Validated by: DQUEJA - 09/08/04

QC Batch ID: WIC040830B

Analysis Date: 9/7/2004

Method Blank

Method: EPA 300.0

Parameter

Sulfate

Result

ND

DF

1

PQLR

0.5

Units

mg/L

Quality Control - Laboratory Control Spike / Duplicate Results

Liquid

Reviewed by: DQUEJA - 09/08/04

QC Batch ID: WIC040830B

Analysis Date: 9/7/2004

LCS Method: EPA 300.0

Conc. Units: mg/L

Parameter

Blank Spike Amt SpikeResult QC Type Analysis Date % Recovery RPD RPD Limits Recovery Limits

Sulfate

<0.5

15.0

15.0

LCS

9/7/2004

100

80 - 120

LCSD Method: EPA 300.0

Conc. Units: mg/L

Parameter

Blank Spike Amt SpikeResult QC Type Analysis Date % Recovery RPD RPD Limits Recovery Limits

Sulfate

<0.5

15.0

15.0

LCSD

9/7/2004

100

0.0

25

80 - 120

Quality Control - Matrix Spike / Duplicate Results

Liquid

Reviewed by: DQUEJA - 09/08/04

QC Batch ID: WIC040830B

Analysis Date: 9/7/2004

Method EPA 300.0

Conc. Units: mg/L

Parameter

SampleNumber Sample Result Spike Amount Spike Result QC Type Analysis Date % Recovery RPD RPD Limits Recovery Limits

MS Sulfate

40222-003

3.00

20

22.0

MS

9/7/2004

95.0

80 - 120

MSD Sulfate

40222-003

3.00

20

22.0

MSD

9/7/2004

95.0

0.0

25

80 - 120

Entech Analytical Labs, Inc.

3334 Victor Court
Santa Clara, CA 95054

(408) 588-0200
(408) 588-0201 - Fax

Chain of Custody / Analysis Request

Attention to: <i>Emily Waters</i>		Phone No.: 510-769-3570	Purchase Order No.:		Invoice to: (If Different)		Phone:	
Company Name: <i>CAMERON-COLE</i>		Fax No.: 510-337-3194	Project No.: 2016		Company:		Quote No.:	
Mailing Address: <i>101 W. ATLANTIC AVE BLDG 40</i>		Email Address:	Project Name: <i>ROT ACTRAZIT</i>		Billing Address: (If Different)			
City: <i>ALAMEDA</i>		State: <i>CA</i>	Zip Code: <i>94501</i>	Project Location: <i>BELLEVILLE</i>	City:		State: <i>CA</i>	Zip: <i>94501</i>
Sampler: <i>ME</i>	Field Org. Code:	Turn Around Time		GC/MS Methods		GC Methods	General Chemistry	
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day					
		<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day					
		<input type="checkbox"/> 4 Day	<input type="checkbox"/> 5 Day					
		<input type="checkbox"/> 10 Day						
Global ID:		Sample		Matrix	No. of Containers	EPA-8260B BTEX Q MTEQ Q TPH Gas 2 by 8260B 5 Oxygenates (MTBE TBA ETBA DPE TAME) Q Lead Scavengers (MTBE TBA DCA) Q Base/Neutral Acid Q 8270C Q PAH-8270CSIM Q Pesticides-8081 Q THP Extractable Diesel Q w/ Si-Gel Cleanup Q PCBs-8082 Q TPH as Gas Q MTBE Q by 8015W/8020 Methanol by 8015M <i>JUL 24/04 1500/12</i>		
Order ID:		Date	Time					
Client ID / Field Point	Lab. No.	Date	Time	Matrix	No. of Containers	Remarks		
TD-01 <i>WW-6</i>	40222-001 <i>002</i>	8/30/04	1010	W	3 X	<i>-012 RR of -002 (WW-6)</i>		
W-1	003		1015		3 X			
WW-11	004		1045		2	<i>X</i>		
					1			
					3 X	<i>X</i>		
					3			
					2	<i>X</i>		
					1			
					3 X	<i>X</i>		
					3			
					2	<i>X</i>		
					1			
					3 X	<i>X</i>		
					3			
					2	<i>X</i>		
					1			
					3 X	<i>X</i>		
					3			
					2	<i>X</i>		
					1			
Relinquished by:		Received by:	Date:	Time:	Special Instructions or Comments			
<i>[Signature]</i>		<i>[Signature]</i>	8/30/04	1447	<input type="checkbox"/> EDD Report <input type="checkbox"/> EDF Report			
Relinquished by:		Received by:	Date:	Time:	<input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17			
<i>[Signature]</i>		<i>[Signature]</i>	8/30/04	1550				
Relinquished by:		Received by:	Date:	Time:	Metals:			
<i>[Signature]</i>		<i>[Signature]</i>			Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, Zn, V, W, Zr			

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Chain of Custody / Analysis Request

Attention to: <i>Emily Waters</i>	Phone No.: <i>510 969-3570</i>	Purchase Order No.:	Invoice to: (If Different)	Phone:
Company Name: <i>Camden Cole</i>	Fax No.: <i>510 337-3994</i>	Project No.: <i>8016</i>	Company:	Quote No.:
Mailing Address: <i>101 W. Atlantic Ave Brdg 90</i>	Email Address:	Project Name: <i>AC 1003 - Emeryville</i>	Billing Address: (If Different)	
City: <i>Alameda</i>	State: <i>CA</i>	Zip Code: <i>94501</i>	Project Location: <i>Emeryville, CA</i>	City: State: Zip:

Sampler: <i>E. Waters</i>	Field Org. Code:	Turn Around Time				GC/MS Methods	GC Methods	General Chemistry
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day	<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day			
Global ID:		Order ID:				Sample		
Client ID / Field Point	Lab. No.	Date	Time	Matrix	No. of Containers			
MW-3	H0222-005	8/30/04	1015	W	3	X		
MW-2	006		1050	W	2			
MW-1	007		1115	W	3	X		
					1			
					3			
					2			
					1			

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: <i>8/30/04</i>	Time: <i>1447</i>
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: <i>8/30/04</i>	Time: <i>1550</i>
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: <i></i>	Time: <i></i>

Special Instructions or Comments

Metals:

Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, Zn, V, W, Zr

- EDD Report
- EDF Report
- Plating
- LUFT-5
- RCRA-8
- PPM-13
- CAM-17

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Santa Clara, CA 9**

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Santa Clara, CA 95054

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Chain of Custody / Analysis Request

Attention to: Tim Waters		Phone No.: 510-769-3540		Purchase Order No.:		Invoice to: (If Different)		Phone:	
Company Name: Camion-Tech		Fax No.: 510 331-3990		Project No.: 2016		Company:			
Mailing Address: 107 W. ATLANTIC AVE BLDG 40		Email Address:		Project Name: ACI INS ENCINVILLE		Billing Address: (If Different)			
City: Alameda		State: CA	Zip Code: 94501	Project Location: ENCINVILLE, CA		City:		State: Zip:	
Sampler: P. WILHELS		Field Org. Code:		Turn Around Time					
				<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day				
				<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day				
				<input type="checkbox"/> 4 Day	<input checked="" type="checkbox"/> 5 Day				
				<input type="checkbox"/> 6-10 Day (std)					
Order ID:		Sample		Matrix	Composite	Containers	Preservative		
Client ID / Field Point		Lab. No.	Date	Time			Volatile Organics by GC/MS 624 □ Oxygenates by GC/MS 801.0 □ M/TBE by GC/MS TPH as Gasoline TPH as Gas/B/E/T/M/TBE Diesel Motor Oil Fuel Scan Extractable Base/Neutral/Acid Organics pesticides 8081 □ 8270 □ 8270-314 □	PCBs - 8082 □ PAHs PCBs - 8082 □ TSP/H □ Oil & Grease □ pH □ TSS □ SC □ TOC □ CN □ Phenols □ Pesticides 8081 □ Metals - Circle Below NO ₂ □ SO ₂ □ NO _x □ Dissolved O ₂ □ Total O ₂ □ STLC □ TO-14 □ TO-15 □	
MW-10		H0322-008	8/30/04	1155	W	3 HCl	X	X	
						↓			
						2 NA	X		
						↓			
						1	X		
MW-12		-009		1230	W	3 HCl	X		
						↓			
						2 NA	X		
						↓			
						1	X		
Relinquished by: 		Received by: 	Date: 8/30/04	Time: 1447	Special Instructions or Comments				<input type="checkbox"/> EDD Report <input type="checkbox"/> PDF Report
Relinquished by: 		Received by: 	Date: 8/30/04	Time: 1530					<input type="checkbox"/> EDF Report
Relinquished by: 		Received by: 	Date: 8/30/04	Time: 1530					<input type="checkbox"/> NPDES Detection Limits
Semi-Conductor Metals: Bi, Ce, Cs, Ga, Ge, In, Li, P, S, Ta, Te, Zr Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, Zn, V, W									
<input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17									
Remarks									

COC July, 2003

Entech Analytical Labs, Inc.

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(408) 588-020

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Chain of Custody / Analysis Request

Relinquished by:

ived by:

1

104

Date:	8/3/04	Time:	1447
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Balkanized by:

176

1

8

Date: 8/30/04 Time: 1557

Special Instructions or Comments

- EDD Report
 - EDF Report
 - Plating
 - LUFT-5
 - RCRA-8
 - PPM-13
 - CAM-17

Metals

Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn,
Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, Zn, V, W, Zr

Entech Analytical Labs, Inc.

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Emily Waters
Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501

Certificate ID: 40510 - 9/28/2004 4:51:26 PM

Order: 40510
Project Name: ACTransit Emeryville
Project Number: 2016

Date Collected: 9/21/2004
Date Received: 9/21/2004
P.O. Number: 2016

Certificate of Analysis - Final Report

On September 21, 2004, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>	<u>Comments</u>
Liquid	EPA 8260B	EPA 8260B	
	Nitrate as N	EPA 300.0	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

• Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-001 Sample ID: Trip Blank

Matrix: Liquid Sample Date: 9/21/2004 9:20 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/22/2004	WMS1040922
Toluene	0.61		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/22/2004	WMS1040922

Surrogate	Surrogate Recovery	Control Limits (%)		
4-Bromofluorobenzene	90.9	64	-	125
Dibromofluoromethane	94.4	23	-	172
Toluene-d8	99.4	70	-	134

Analyzed by: Xbian

Reviewed by: BDHABALIA

• Entech Analytical Labs, Inc.

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-002 Sample ID: MW-2

Matrix: Liquid Sample Date: 9/21/2004 9:50 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	0.24		1	0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Methyl-t-butyl Ether	6.3		1	1	µg/L	N/A	N/A	09/23/2004	WMS1040923
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/23/2004	WMS1040923

Surrogate	Surrogate Recovery	Control Limits (%)		
4-Bromofluorobenzene	92.8	64	-	125
Dibromofluoromethane	99.6	23	-	172
Toluene-d8	97.9	70	-	134

Analyzed by: Xbian

Reviewed by: BDHABALIA

• Entech Analytical Labs, Inc.

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-003 Sample ID: MW-1

Matrix: Liquid Sample Date: 9/21/2004 10:10 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND		1	0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: EQueja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Methyl-t-butyl Ether	4.2		1	1	µg/L	N/A	N/A	09/22/2004	WMS1040922
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/22/2004	WMS1040922

Surrogate Surrogate Recovery Control Limits (%)

Analyzed by: Xbian

4-Bromofluorobenzene	92.1	64	-	125
Dibromofluoromethane	98.3	23	-	172
Toluene-d8	97.0	70	-	134

Reviewed by: BDHABALIA

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-004 Sample ID: MW-3

Matrix: Liquid Sample Date: 9/21/2004 10:25 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	3.5	1		0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Methyl-t-butyl Ether	4.0		1	1	µg/L	N/A	N/A	09/23/2004	WMS1040923
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/23/2004	WMS1040923

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene	93.3	64	-	125	Analyzed by: Xbian
Dibromofluoromethane	98.5	23	-	172	Reviewed by: BDHABALIA
Toluene-d8	100	70	-	134	

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Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-005 Sample ID: W-1 Matrix: Liquid Sample Date: 9/21/2004 10:40 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND	I		0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	8.6	I		0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Ethyl Benzene	11	I		0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Methyl-t-butyl Ether	ND	I		1	µg/L	N/A	N/A	09/23/2004	WMS1040923
Toluene	3.6	I		0.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Xylenes, Total	18	I		1.5	µg/L	N/A	N/A	09/23/2004	WMS1040923

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: Xbian
4-Bromofluorobenzene	97.7	64	-	125	Reviewed by: BDHABALIA
Dibromofluoromethane	98.1	23	-	172	
Toluene-d8	102	70	-	134	

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-006 Sample ID: MW-6 Matrix: Liquid Sample Date: 9/21/2004 10:55 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND		1	0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	86		5	2.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Ethyl Benzene	15		5	2.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Methyl-t-butyl Ether	ND		5	5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Toluene	7.8		5	2.5	µg/L	N/A	N/A	09/23/2004	WMS1040923
Xylenes, Total	27		5	7.5	µg/L	N/A	N/A	09/23/2004	WMS1040923

Note: Sample diluted due to high concentration of non-target compounds (heavy hydrocarbons).

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: Xbian			
4-Bromofluorobenzene	95.2	64	-	125				Reviewed by: BDHABALIA
Dibromofluoromethane	97.1	23	-	172				
Toluene-d8	102	70	-	134				

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-007 Sample ID: MW-11

Matrix: Liquid Sample Date: 9/21/2004 11:30 AM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND	1		0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1		0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Ethyl Benzene	ND	1		0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Methyl-t-butyl Ether	ND	1		1	µg/L	N/A	N/A	09/22/2004	WMS1040922
Toluene	ND	1		0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922
Xylenes, Total	ND	1		1.5	µg/L	N/A	N/A	09/22/2004	WMS1040922

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene	90.1	64 - 125
Dibromofluoromethane	99.5	23 - 172
Toluene-d8	97.2	70 - 134

Analyzed by: Xbian

Reviewed by: BDHABALIA

• Entech Analytical Labs, Inc.

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Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-008 Sample ID: MW-7 Matrix: Liquid Sample Date: 9/21/2004 12:15 PM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND	1		0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1		0.5	µg/L	N/A	N/A	09/23/2004	WMS1040922B
Ethyl Benzene	ND	1		0.5	µg/L	N/A	N/A	09/23/2004	WMS1040922B
Methyl-t-butyl Ether	1.5	1		1	µg/L	N/A	N/A	09/23/2004	WMS1040922B
Toluene	ND	1		0.5	µg/L	N/A	N/A	09/23/2004	WMS1040922B
Xylenes, Total	ND	1		1.5	µg/L	N/A	N/A	09/23/2004	WMS1040922B

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene	90.8	64	-	125	Analyzed by: Xbian
Dibromofluoromethane	93.0	23	-	172	Reviewed by: BDHABALIA
Toluene-d8	99.4	70	-	134	

• Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-009 Sample ID: MW-9 Matrix: Liquid Sample Date: 9/21/2004 12:45 PM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND		1	0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Methyl-t-butyl Ether	3.6		1	1	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: Xbian			
4-Bromofluorobenzene	89.9	64	-	125				
Dibromofluoromethane	102	23	-	172				
Toluene-d8	98.3	70	-	134				

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Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-010 Sample ID: MW-10

Matrix: Liquid Sample Date: 9/21/2004 1:10 PM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND		1	0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Methyl-t-butyl Ether	6.7		1	1	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B

Surrogate	Surrogate Recovery	Control Limits (%)		
4-Bromofluorobenzene	92.7	64	-	125
Dibromofluoromethane	99.9	23	-	172
Toluene-d8	99.7	70	-	134

Analyzed by: Xbian

Reviewed by: BDHABALIA

• Entech Analytical Labs, Inc.

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Cameron-Cole
101 W. Atlantic Ave., Bldg#90
Alameda, CA 94501
Attn: Emily Waters

Project Number: 2016
Project Name: ACTransit Emeryville
Date Received: 9/21/2004
P.O. Number: 2016
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40510-011 Sample ID: MW-12

Matrix: Liquid Sample Date: 9/21/2004 1:35 PM

Method: EPA 300.0

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Nitrate as N	ND		1	0.2	mg/L	N/A	N/A	09/23/2004	WIC040923

Analyzed by: Equeja

Reviewed by: DQUEJA

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Methyl-t-butyl Ether	5.6		1	1	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B
Xylenes, Total	ND		1	1.5	µg/L	N/A	N/A	09/22/2004	WMS1040922B

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene	104	64 - 125	Analyzed by: Xbian
Dibromofluoromethane	96.0	23 - 172	Reviewed by: BDHABALIA
Toluene-d8	96.4	70 - 134	

Entech Analytical Labs, Inc.

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

Chain of Custody / Analysis Request

Attention to:	Phone No.:	Purchase Order No.:	Invoice to: (If Different)	Phone:
Rainy Waters	(510) 761-3570	2016		
Company Name:	Fax No.:	Project No.:	Company:	
Cameron-Cole	(510) 337-3994			
Mailing Address:	Email Address:	Project Name:	Billing Address: (If Different)	
10 W. Atlantic Ave Bldg #10				
City: Alameda	State: CA	Zip Code: 94501	City: ACTransit - Emery	State: Zip:
Sampler: PWME	Field Org. Code:	Turn Around Time		
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day	
		<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day	
		<input type="checkbox"/> 4 Day	<input checked="" type="checkbox"/> 5 Day	
		<input type="checkbox"/> 6-10 Day (std)		
Global ID:				
Order ID:		Sample		
Client ID / Field Point	Lab. No.	Date	Time	Matrix
HW-BLANK		9/21/04	0120	W
MW-2			0050	
MW-1			1010	
MW-3			1025	
W-1			1040	
MW-C			1055	
MW-11			1130	
Relinquished by:	Received by:	Date:	Time:	Special Instructions or Comments
		9/21/04	1527	Resample - AC Transit Emeryville
Relinquished by:	Received by:	Date:	Time:	Semi-Conductor Metals: Bi, Ce, Cs, Ga, Ge, In, Li, P, S, Ta, Te, Zr
	Shadwell	9/21/04	1640	EDD Report <input type="checkbox"/> PDF Report <input type="checkbox"/> EDF Report <input type="checkbox"/>
Relinquished by:	Received by:	Date:	Time:	Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, Zn, V, W
				NPDES Detection Limits <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17 <input type="checkbox"/>
Preservative				
<input type="checkbox"/> Volatile Organics by GC/MS <input type="checkbox"/> 624 <input type="checkbox"/> Oxigenates by GC/MS <input type="checkbox"/> 8010 <input type="checkbox"/> MTBE by GC/MS <input type="checkbox"/> TPH as Gas/TEX <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Fuel Scan <input type="checkbox"/> w. Si-gel Standard Cleanup <input type="checkbox"/> Extractable <input type="checkbox"/> Base/Neutral/Acid Organics <input type="checkbox"/> 8270-SIM <input type="checkbox"/> Pesticides-8081 <input type="checkbox"/> 8270 <input type="checkbox"/> w. Si-gel Column Cleanup <input type="checkbox"/> Purgeable <input type="checkbox"/> 8270-SIM <input type="checkbox"/> Pesticides-8081 <input type="checkbox"/> 8270 <input type="checkbox"/> PH <input type="checkbox"/> TSS <input type="checkbox"/> TRPH <input type="checkbox"/> CN <input type="checkbox"/> Phenols <input type="checkbox"/> Aromatics <input type="checkbox"/> NO ₂ <input type="checkbox"/> Perchlorate <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TO-14 <input type="checkbox"/> TO-15				
Remarks				
40510-001 002				
003				
004				
005				
006				
007				

Entech Analytical Labs, Inc.

3334 Victor Court
Santa Clara, CA 95054

(408) 588-0200

(408) 588-0201 - Fax

Chain of Custody / Analysis Request

Attention to: Emily Waters		Phone No.: (50) 769-3570		Purchase Order No.:		Invoice to: (If Different)		Phone:			
Company Name: Unicon - Oil		Fax No.: (50) 334-3994		Project No.: 2016		Company:					
Mailing Address: 101 W. Alameda Ave Bldg 90 Alameda		Email Address:		Project Name: AC Transit - Emeryville		Billing Address: (If Different)					
City: Alameda		State: CA	Zip Code: 94501	Project Location: EMERYVILLE, CA		City:		State: CA	Zip: 94501		
Sampler: EW/MC	Field Org. Code:	Turn Around Time									
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day	<input type="checkbox"/>	<input type="checkbox"/> 3 Day	<input checked="" type="checkbox"/> 5 Day	<input type="checkbox"/> 6-10 Day (std)				
Global ID:											
Order ID:		Sample		Matrix	Composite	Grab	Containers	Preservative			
Client ID / Field Point	Lab. No.	Date	Time					Volatile Organics by GC/MS: 624 <input checked="" type="checkbox"/> Oxygenates by 8260: 8260B <input checked="" type="checkbox"/> TPH by 8260B: 8260B <input checked="" type="checkbox"/> TPH as Gas/BTEX: 8260B <input checked="" type="checkbox"/> Diesel: Motor Oil: 4W SAE 5W-30 <input checked="" type="checkbox"/> Fuel Scan: w/ SAE Standard Cleanup <input checked="" type="checkbox"/> Extractable: Purgeable: <input checked="" type="checkbox"/> Base Neutral/Acid Organics: 8270: 8270 <input checked="" type="checkbox"/> Pesticides: 8081: 8081 <input checked="" type="checkbox"/> pH: 8082 <input checked="" type="checkbox"/> TPH: 8082 <input checked="" type="checkbox"/> TSS: 8082 <input checked="" type="checkbox"/> SC: 8082 <input checked="" type="checkbox"/> TOC: 8082 <input checked="" type="checkbox"/> PAH: 8082 <input checked="" type="checkbox"/> PCB: 8082 <input checked="" type="checkbox"/> MTBE: 8082 <input checked="" type="checkbox"/> Oil & Grease: 8082 <input checked="" type="checkbox"/> CN: 8082 <input checked="" type="checkbox"/> Phenols: 8082 <input checked="" type="checkbox"/> NO2: 8082 <input checked="" type="checkbox"/> PO4: 8082 <input checked="" type="checkbox"/> SO4: 8082 <input checked="" type="checkbox"/> NO3: 8082 <input checked="" type="checkbox"/> Perchlorate: 8082 <input checked="" type="checkbox"/> Metals: Total: 8082 <input checked="" type="checkbox"/> Circle Below Dissolved: 8082 <input checked="" type="checkbox"/> STLC: 8082 <input checked="" type="checkbox"/> TCLP: 8082 <input checked="" type="checkbox"/> TO-14: 8082 <input checked="" type="checkbox"/> TO-15: 8082 <input checked="" type="checkbox"/>			
Remarks											
MW-11 9/2/04 1130 W 3 HCl NA X 3 not received any sample J/ 9/2/04 MW-7 1215 I NA X MW-9 1245 I NA X 40510-008 009 MW-10 1310 I NA X 010 MW-12 1335 I NA X 011											
Relinquished by: 		Received by: 	Date: 9/2/04	Time: 1526	Special Instructions or Comments Emeryville Resample						
Relinquished by: 		Received by: 	Date: 9/2/04	Time: 1640	Semi-Conductor Metals: Bi, Ce, Cs, Ga, Ge, In, Li, P, S, Ta, Te, Zr Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Ti, Sn, Ti, Zn, V, W						
Relinquished by: 		Received by: 	Date:	Time:	<input type="checkbox"/> EDD Report <input type="checkbox"/> PDF Report <input type="checkbox"/> EDF Report <input type="checkbox"/> NPDES Detection Limits <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17						

DATE: 8/30/04

<u>AC Transit Emeryville</u>	<u>EVENT Quarterly</u>			<u>TECHNICIAN</u>	<u>EN/ME</u>
WELL OR LOCATION	DATE	TIME	MEASUREMENT	CODE	COMMENTS
MW-1	8/30/04	0925	5.14	SWL	
MW-2		0927	4.62		
MW-3		0931	6.25		
MW-4		0929	6.30		
MW-5		0922	4.55		
MW-6		0911	4.22		oil sheen
MW-7		0915	5.61		
MW-8		0917	4.79		
MW-9		0920	3.45		
MW-10		0940	9.85		
MW-11		4:13	0938		SWL/WTI line / D/W
MW-12		0942	10.32	↓	
MW-13		0858	9.30	oil	off by 1 foot
MW-13		↓	10.36	SWL	↓
W-1		0934	6.65	↓	
W-3		0932	8.39	↓	
W-4	↓	0908	4.85	↓	

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 EMERYVILLE

EVENT

QUARTERLY SAMPLER EW, ME

DATE

8/30/04

Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW
	Start Pump / Begin	1030	0.4	
Intake depth <u>12'</u>		1033		7.72
SWL <u>6.65</u> (if above screen)		1036		7.74
SWL (if in screen)		1043		7.89
Measured TD <u>14.76</u>	Stop	1045		
	Sampled	1046		7.75
	Final IWL			
	<u>PURGE CALCULATION</u>			
	<u>0.165</u> gal/ft. * <u>9.78</u> ft. = <u>1.61</u> gals. x 3		<u>4.8</u> gals.	
	SWL to TD	one volume	purge volume - 3 casings	
	<u>2" = 0.165 gal/ft.</u>	<u>4" = 0.65 gal/ft.</u>	<u>6" = 1.47 gal/ft.</u>	

Equipment Used / Sampling Method / Description of Event:

CENT PUMP USED TO PURGE
DISPOSABLE BAGS USED TO SAMPLE
WATER / RINSED
SOUNDER / METERS

Actual gallons purged 5

Actual volumes purged 3+

Well Yield \oplus 47

COC #

NA

Sample I.D.	Analysis	Lab
<u>w-1</u>	<u>876003 AEROMATIC CANTER</u>	
	<u>TPH-O</u>	
	<u>TPH-C</u>	
	<u>NITRATE/6000</u>	

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1.	22.2	1067	7.70	-	Fe 7.3.30
2.	22.3	1066	7.71	-	DO 4.45
3.	22.1	1069	7.72	-	OR -60
4.					
5.					

*Take measurement at
approximately each casing \oplus

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 W-1

PROJECT <u>AFCMENVILLE</u>	EVENT <u>Antereny</u>	SAMPLER <u>DN/MF</u>	DATE <u>9/21/04</u>																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Well type (MW, EW, PZ, etc.)</td> <td style="width: 25%;">ACTION</td> <td style="width: 25%;">TIME</td> <td style="width: 25%;">PUMP RATE (gpm)</td> </tr> <tr> <td><u>MW</u></td> <td><u>Start Pump / Begin</u></td> <td><u>1028</u></td> <td><u>0.5</u></td> </tr> <tr> <td><u>Diameter 211</u></td> <td><u>Stop</u></td> <td><u>1038</u></td> <td></td> </tr> <tr> <td><u>Intake depth 10</u></td> <td><u>Sampled</u></td> <td><u>1040</u></td> <td></td> </tr> <tr> <td><u>SWL 6.46 (if above screen)</u></td> <td><u>Final IWL</u></td> <td></td> <td></td> </tr> <tr> <td><u>SWL _____ (if in screen)</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>Measured TD 14.76</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center; padding-top: 10px;"> PURGE CALCULATION </td> </tr> <tr> <td colspan="4"> $0.165 \text{ gal/ft.} \times 8.3 \text{ ft.} = 1.37 \text{ gals.} \times 3 = 4.11 \text{ gals.}$ <p style="text-align: center;">SWL to TD one volume purge volume - 3 casings</p> <p style="text-align: center;">$2^* = 0.165 \text{ gal/ft.}$ $4^* = 0.65 \text{ gal/ft.}$ $6^* = 1.47 \text{ gal/ft.}$</p> </td> </tr> </table>				Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	<u>MW</u>	<u>Start Pump / Begin</u>	<u>1028</u>	<u>0.5</u>	<u>Diameter 211</u>	<u>Stop</u>	<u>1038</u>		<u>Intake depth 10</u>	<u>Sampled</u>	<u>1040</u>		<u>SWL 6.46 (if above screen)</u>	<u>Final IWL</u>			<u>SWL _____ (if in screen)</u>				<u>Measured TD 14.76</u>				PURGE CALCULATION				$0.165 \text{ gal/ft.} \times 8.3 \text{ ft.} = 1.37 \text{ gals.} \times 3 = 4.11 \text{ gals.}$ <p style="text-align: center;">SWL to TD one volume purge volume - 3 casings</p> <p style="text-align: center;">$2^* = 0.165 \text{ gal/ft.}$ $4^* = 0.65 \text{ gal/ft.}$ $6^* = 1.47 \text{ gal/ft.}$</p>			
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Equipment Used / Sampling Method / Description of Event: <u>cent pump used to purge</u> <u>disposable baller used to sample</u>																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Actual gallons purged</td> <td style="width: 50%;"><u>5</u></td> </tr> <tr> <td>Actual volumes purged</td> <td><u>3.65</u></td> </tr> <tr> <td>Well Yield \oplus</td> <td><u>HY</u></td> </tr> <tr> <td colspan="2" style="text-align: center;">COC #</td> </tr> <tr> <td>Sample I.D.</td> <td>Analysis</td> <td>Lab</td> </tr> <tr> <td><u>W-1</u></td> <td><u>8260</u></td> <td><u>Entech</u></td> </tr> <tr> <td><u>W-1</u></td> <td><u>Entech</u></td> <td><u>Nitrate</u></td> </tr> <tr> <td></td> <td></td> <td><u>Entech</u></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>				Actual gallons purged	<u>5</u>	Actual volumes purged	<u>3.65</u>	Well Yield \oplus	<u>HY</u>	COC #		Sample I.D.	Analysis	Lab	<u>W-1</u>	<u>8260</u>	<u>Entech</u>	<u>W-1</u>	<u>Entech</u>	<u>Nitrate</u>			<u>Entech</u>																
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		<u>Entech</u>																																					
Additional Comments:																																							
Gallons Purged *	Temp °C	EC (µs/cm)	pH																																				
1. <u>1</u>	<u>23.5</u>	<u>650</u>	<u>7.30</u>																																				
2. <u>2</u>	<u>23.7</u>	<u>640</u>	<u>7.25</u>																																				
3. <u>3</u>	<u>23.6</u>	<u>650</u>	<u>7.26</u>																																				
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

110

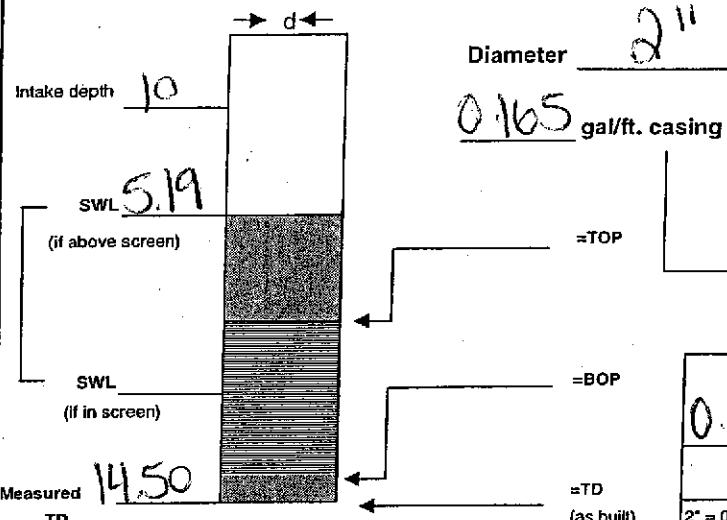
PROJECT EMERYVILLE

EVENT

EVENT QUARTERLY SAMPLER EW, ME

DATE

8/30/04



<u>ACTION</u>	<u>TIME</u>	<u>PUMP RATE</u> (gpm)	<u>DTW</u>
Start Pump / Begin	1101	0.5	
	1107		6.77
	1110		6.88
Stop	1111		
Sampled	1115		
Final IWL			
<u>PURGE CALCULATION</u>			
gal/ft. * <u>9.31</u> ft. = <u>1.54</u> gals. X 3		<u>4.62</u> gals.	
SWL to TD	one volume		purge volume - 3 casings
4" = 0.65 gal/ft		6" = 1.47 gal/ft	

Equipment Used / Sampling Method / Description of Event:

CENT PUMP USED TO PURGE
DISPOSABLE BALES USED TO STERILIZE
WASHED / RINSED
SOUNDER / METERS

Actual gallons purged

Actual volumes purged

Well Yield

SOC #

WA

50

3.25

44

Additional Comments:

Sample I.D.	Analysis	Lab
MW-1	\$200 nitrate/sulfide TPH-gas TPH-diesel	

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. 1.5	26.6	485	7.22	—	TC - 0.00 mg/L
2. 3.0	24.2	469	6.93	—	DO - 4.62 mg/L
3. 4.5	24.7	479	6.92	—	ORP - 75 mV
4.					
5.					

*Take measurement at approximately each casing volume purged.

HY-Minimal WI-drops

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 Evernile Resample EVENT gathering SAMPLER ME/EW DATE 9/21/04

Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW
			Start Pump / Begin	
Intake depth <u>10</u>	Diameter <u>2"</u>	Stop	1005	
SWL <u>4.90</u> (if above screen)	<u>0.165</u> gal/ft. casing	Sampled	1010	
SWL <u>4.50</u> (if in screen)	=TOP	Final IWL		
Measured TD <u>14.50</u>	=BOP	PURGE CALCULATION		
	=TD (as built)	<u>9.60</u> gal/ft. * <u>0.165</u> ft. = <u>1.58</u> gals. X 3	<u>4.75</u> gals.	purge volume - 3 casings
		SWL to TD	one volume	
		<u>2" = 0.165 gal/ft.</u>	<u>4" = 0.65 gal/ft.</u>	<u>6" = 1.47 gal/ft.</u>

Equipment Used / Sampling Method / Description of Event:

cent pump used to purge
disposable vials used to sample

Actual gallons purged 5.0

Actual volumes purged 3.2

Well Yield \oplus 44

COC #

Sample I.D.	Analysis	Lab
<u>MW-1</u>	<u>82.00</u>	<u>Enten</u>
	<u>Nitrate</u>	

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. <u>1.5</u>	<u>26.4</u>	<u>474</u>	<u>7.50</u>	-	Fe. 0.00 mg/L
2. <u>3.0</u>	<u>27.0</u>	<u>474</u>	<u>7.45</u>	-	DO 5.0 mg/L
3. <u>4.5</u>	<u>27.0</u>	<u>476</u>	<u>7.49</u>	-	CRP - 63.4 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 EMERYVILLE

EVENT

QUARTERLY SAMPLER

DATE

8/30/04

Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW
Intake depth <u>10</u>	Start Pump / Begin	<u>1031</u>	<u>0.3</u>	
Diameter <u>2"</u>		<u>1038</u>	<u>5.30</u>	
SWL <u>4600</u> (if above screen)		<u>1043</u>	<u>5.31</u>	
SWL <u>453</u> (if in screen)		<u>1045</u>		
Measured TD <u>1153</u>	Sampled	<u>1050</u>		
	Final IWL			
PURGE CALCULATION				
<u>0.165</u> gal/ft. <u>6.85</u> ft.		<u>1.13</u> gals. x 3	<u>3.39</u> 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.	

The diagram shows a vertical well bore. At the top, an arrow labeled 'd' points to the intake depth of 10'. Below this is a section of casing. The screen is located at a height of 4600' from the bottom. The bottom section is labeled 'as built' and has a diameter of 2". The total measured depth is 1153'.

Equipment Used / Sampling Method / Description of Event:

CENT PUMP USED TO PURGE
DISPOSABLE BAGS USED TO SAMPLE
WASTED / RINSED
SOUNDER / METERS

Actual gallons purged 4.0

Actual volumes purged 3.5

Well Yield \oplus 44

COC # NA

Sample I.D.	Analysis	Lab
MW-2	8260	Entech
	nitrate/nitrite	
	TPH-gas	
	TPH-diesel	

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1	25.8	432	6.94	-	Fe 0.00
2	26.0	459	6.89	-	DO - 2.24
3	25.3	441	6.90	-	CRP - 78.1m
4.					
5.					

*Take measurement at \oplus
approximately each casing
volume purged.

HY-Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting 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 <u>AC CEMENT WLLC</u>	EVENT <u>RESAMPLE</u>	SAMPLER <u>MW/PN</u>	DATE <u>7/21/04</u>																					
		<table border="1"> <thead> <tr> <th>ACTION</th> <th>TIME</th> <th>PUMP RATE (gpm)</th> <th>DTW</th> </tr> </thead> <tbody> <tr> <td>Start Pump / Begin</td> <td>0937</td> <td>0.4</td> <td></td> </tr> <tr> <td>Stop</td> <td>0947</td> <td></td> <td></td> </tr> <tr> <td>Sampled</td> <td>0950</td> <td></td> <td></td> </tr> <tr> <td>Final IWL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ACTION	TIME	PUMP RATE (gpm)	DTW	Start Pump / Begin	0937	0.4		Stop	0947			Sampled	0950			Final IWL					
ACTION	TIME	PUMP RATE (gpm)	DTW																					
Start Pump / Begin	0937	0.4																						
Stop	0947																							
Sampled	0950																							
Final IWL																								
PURGE CALCULATION $0.165 \text{ gal/ft.} * 7.18 \text{ ft.} = 1.18 \text{ gals. X 3 casings}$ $2^* = 0.165 \text{ gal/ft.}, 4^* = 0.65 \text{ gal/ft.}, 6^* = 1.47 \text{ gal/ft.}$																								
Equipment Used / Sampling Method / Description of Event: <i>cent pump used to purge disposable baffle used to sample</i>		Actual gallons purged <u>4</u> Actual volumes purged <u>3+</u> Well Yield \oplus _____ COC # <u>N/A</u> <table border="1"> <thead> <tr> <th>Sample I.D.</th> <th>Analysis</th> <th>Lab</th> </tr> </thead> <tbody> <tr> <td>MW-2</td> <td>82600370/MW</td> <td>CUTCH</td> </tr> <tr> <td>↓</td> <td>MINUTE</td> <td>↓</td> </tr> <tr> <td>TNPBLANK</td> <td>8260</td> <td>↓</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sample I.D.	Analysis	Lab	MW-2	82600370/MW	CUTCH	↓	MINUTE	↓	TNPBLANK	8260	↓										
Sample I.D.	Analysis	Lab																						
MW-2	82600370/MW	CUTCH																						
↓	MINUTE	↓																						
TNPBLANK	8260	↓																						
Additional Comments: <i>trip blank collected @ 0920</i>																								
Gallons Purged *	Temp °C	EC (us/cm)	pH	Turbidity (NTU)	Other																			
1.	23.7	907	7.07	-	DO - 0.00 mg/l																			
2.	23.8	847	7.08	-	DO - 2.24 mg/l																			
3.	23.9	822	7.09	-	DO - 3.0 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 LY - Able to purge 3 volumes by returning by reducing pump rate or cycling pump later or next day. VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION MW-3

PROJECT <u>EMERYVILLE</u>	EVENT <u>QUARTERLY</u>	SAMPLER <u>ADME</u>	DATE <u>8/30/04</u>																												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ACTION</th> <th>TIME</th> <th>PUMP RATE (gpm)</th> <th>DTW</th> </tr> </thead> <tbody> <tr> <td>Start Pump / Begin</td> <td><u>0859</u></td> <td><u>0.5</u></td> <td></td> </tr> <tr> <td></td> <td><u>1001</u></td> <td></td> <td><u>8.65</u></td> </tr> <tr> <td></td> <td><u>1007</u></td> <td></td> <td><u>9.25</u></td> </tr> <tr> <td>Stop</td> <td><u>1009</u></td> <td></td> <td></td> </tr> <tr> <td>Sampled</td> <td><u>1015</u></td> <td></td> <td></td> </tr> <tr> <td>Final IWL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ACTION	TIME	PUMP RATE (gpm)	DTW	Start Pump / Begin	<u>0859</u>	<u>0.5</u>			<u>1001</u>		<u>8.65</u>		<u>1007</u>		<u>9.25</u>	Stop	<u>1009</u>			Sampled	<u>1015</u>			Final IWL				
ACTION	TIME	PUMP RATE (gpm)	DTW																												
Start Pump / Begin	<u>0859</u>	<u>0.5</u>																													
	<u>1001</u>		<u>8.65</u>																												
	<u>1007</u>		<u>9.25</u>																												
Stop	<u>1009</u>																														
Sampled	<u>1015</u>																														
Final IWL																															
PURGE CALCULATION																															
		$0.165 \text{ gal/ft.} \cdot 8.41 \text{ ft.} = 1.39 \text{ gals.} \times 3 = 4.16 \text{ gal}$ SWL to TD $2'' = 0.165 \text{ gal/ft.}$ $4'' = 0.65 \text{ gal/ft.}$ $6'' = 1.47 \text{ gal/ft.}$																													
Equipment Used / Sampling Method / Description of Event: <u>CENT PUMP USED TO PURGE</u> <u>DISPOSABLE BAFFLE USED TO SAMPLE</u> <u>WASTED / RINSING</u> <u>SONDAR / METERS</u>																															
		Actual gallons purged <u>5.0</u> Actual volumes purged <u>3.6</u> Well Yield \oplus <u>HY</u> COC # <u>NA</u>																													
Additional Comments: <u>MW-3 nitrate/sulfide Entech</u> <u>\$260</u> <u>TPH-gas</u> <u>TPH-d</u>																															
Gallons Purged *	Temp °C	EC (us/cm)	pH																												
1. <u>1.25</u>	<u>23.6</u>	<u>1855</u>	<u>7.19</u>																												
2. <u>2.50</u>	<u>23.5</u>	<u>609</u>	<u>6.82</u>																												
3. <u>3.75</u>	<u>23.5</u>	<u>551</u>	<u>6.75</u>																												
4.																															
5.																															

*Take measurement at \oplus
approximately each casing volume purged.

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

CAMERON-CCLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION

MW-3

PROJECT Alkemyville EVENT Quarterly SAMPLER DWHE DATE 9/21/04

Well type (MW, EW, PZ, etc.)	<u>MW</u>	<u>ACTION</u>	<u>TIME</u>	<u>PUMP RATE</u> (gpm)	<u>DTW</u>
	<u>2"</u>	<u>Start Pump / Begin</u>	<u>1014</u>	<u>0.5</u>	
Intake depth	<u>10</u>				
SWL (if above screen)	<u>604</u>				
SWL (if in screen)	<u>467</u>				
Measured TD	<u>14.67</u>				
Diameter	<u>0.165</u> gal/ft. casing	=TOP			
		=BOP			
		=TD (as built)			
			<u>0.165</u>	gal/ft. * <u>8.63</u> ft. = <u>1.42</u> gals. X 3	<u>4.27</u> gals.
			SWL to TD	one volume	purge volume - 3 casings
			<u>2" = 0.165 gal/ft.</u>	<u>4" = 0.65 gal/ft.</u>	<u>6" = 1.47 gal/ft.</u>
PURGE CALCULATION					

Equipment Used / Sampling Method / Description of Event:

cent pump used to purge
disposable bauer used to sample

Actual gallons purged

4.5

Actual volumes purged

31

Well Yield \oplus

44

COC #

Sample I.D.	Analysis	Lab
<u>MW-3</u>	<u>8260</u>	<u>Envtech</u>
<u>V</u>	<u>Nitrate</u>	<u>V</u>

Gallons Purged *	Temp °C	EC (us/cm)	pH	Turbidity (NTU)	Other
1.	<u>24.4</u>	<u>534</u>	<u>7.10</u>	-	
2.	<u>24.5</u>	<u>515</u>	<u>7.12</u>	-	
3.	<u>24.3</u>	<u>525</u>	<u>7.10</u>	-	
4.					
5.					

*Take measurement at approximately each casing volume purged. \oplus HY-Minimal W.L. drop LY - Able to purge 3 volumes during one sitting by reducing pump rate or cycling pump VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION MU-6

PROJECT <u>EMERYVILLE</u>		EVENT <u>QUARTERLY SAMPLER EW, NE</u>	DATE <u>8/30/04</u>																
		Well type (MW, EW, PZ, etc.)	ACTION	TIME															
			Start Pump / Begin	1005															
Intake depth <u>12'</u>	d	Diameter		PUMP RATE (gpm)															
SWL <u>4.75</u> (if above screen)		gal./ft. casing		1.0															
SWL _____ (if in screen)		=TOP	1008	4.82															
Measured TD <u>19.53</u>	19.64	=BOP	1010	4.95															
			Stop	1012															
			Sampled	1015															
			Final IWL	1016															
PURGE CALCULATION																			
		0.165 gal/ft. * <u>14.89</u> ft. = <u>2.45</u> gals. X 3		<u>7.37</u> gals.															
		SWL to TD	one volume	purge volume - 3 casings															
		$2^{\circ} = 0.165 \text{ gal/ft.}$	$4^{\circ} = 0.65 \text{ gal/ft.}$	$6^{\circ} = 1.47 \text{ gal/ft.}$															
Equipment Used / Sampling Method / Description of Event:																			
<p><u>CENT PUMP USED TO PURGE</u> <u>DISPOSABLE BAGS USED TO SAMPLE</u> <u>WATER / RINSING</u> <u>SONDERS / METERS</u></p>																			
<p>Actual gallons purged <u>8</u></p> <p>Actual volumes purged <u>34</u></p> <p>Well Yield \oplus <u>14</u></p> <p>COC # <u>NA</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Sample I.D.</th> <th>Analysis</th> <th>Lab</th> </tr> <tr> <td>MW 6</td> <td>R260B D278/100E</td> <td>PNTSC4</td> </tr> <tr> <td>TYP-D</td> <td></td> <td></td> </tr> <tr> <td>TYP-G</td> <td></td> <td></td> </tr> <tr> <td>1/1 DATE/SURFACE</td> <td></td> <td></td> </tr> </table>					Sample I.D.	Analysis	Lab	MW 6	R260B D278/100E	PNTSC4	TYP-D			TYP-G			1/1 DATE/SURFACE		
Sample I.D.	Analysis	Lab																	
MW 6	R260B D278/100E	PNTSC4																	
TYP-D																			
TYP-G																			
1/1 DATE/SURFACE																			
Additional Comments: <u>TYPIC TYPIC COLLECTED @ 1010</u> <u>TYP-D</u> <u>PERIOD (ME)</u>																			
Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other														
1.	22.2	760	7.01	-	Re \rightarrow 3.40 mV														
2.	22.1	780	7.00	-	D) 1.85 mV														
3.	22.2	7662	7.02	-	ORP - 100 mV														
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 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 56

PROJECT <u>AC Phenylville</u>		EVENT <u>Quarry</u>	SAMPLER <u>PW/ME</u>	DATE <u>9/21/04</u>				
		Well type <u>MW</u> (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW		
		Diameter <u>2"</u>	Start Pump / Begin	<u>1045</u>	<u>1.0</u>	<u>4.99</u>		
		Intake depth <u>12'</u>				<u>5.12</u>		
		SWL <u>4.90</u> (if above screen)	=TOP			<u>8.15</u>		
		SWL <u>0</u> (if in screen)	=BOP					
		Measured TD <u>19.53</u>	=TD (as built)	<u>0.165</u>	gal/ft. * <u>4.63</u> ft. = <u>2.41</u> gals. X 3	<u>7.24</u> gals. SWL to TD one volume		
				<u>2" = 0.165 gal/ft.</u>	<u>4" = 0.65 gal/ft.</u>	<u>6" = 1.47 gal/ft.</u>		
PURGE CALCULATION								
<u>0.165</u> gal/ft. * <u>4.63</u> ft. = <u>2.41</u> gals. X 3						<u>7.24</u> gals. purge volume - 3 casings		
Equipment Used / Sampling Method / Description of Event: <u>Cent pump used to purge disposable trailer used to sample</u>								
						Actual gallons purged <u>8</u>		
						Actual volumes purged <u>3+</u>		
						Well Yield \oplus <u>14</u>		
						COC # <u>NA</u>		
						Sample I.D. <u>4W-6</u>	Analysis <u>TZWD CBX/WTSE</u>	Lab <u>BURET</u>
						<u>↓</u>	<u>NITRATE</u>	<u>↓</u>
Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other			
1. <u>2</u>	<u>22.3</u>	<u>770</u>	<u>7.10</u>	-				
2. <u>4</u>	<u>22.2</u>	<u>706</u>	<u>7.12</u>	-				
3. <u>6</u>	<u>22.1</u>	<u>767</u>	<u>7.15</u>	-				
4.								
5.								
*Take measurement at approximately each casing volume purged. \oplus				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

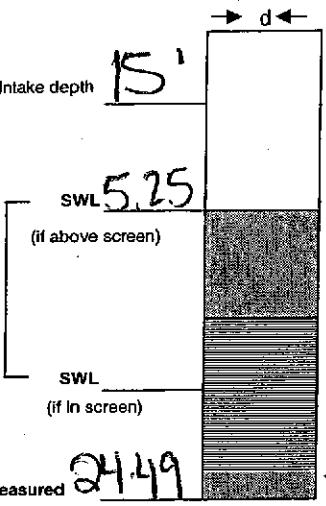
PROJECT <u>EMERYVILLE</u>		EVENT <u>QUARTERLY</u>	SAMPLER <u>EW, NE</u>	DATE <u>8/30/04</u>																
		Well type <u>MW</u> (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)															
		Diameter <u>2</u>	Start Pump / Begin	<u>1120</u>	<u>0.3</u>															
		Intake depth <u>20</u>		<u>1125</u>	<u>7.16</u>															
		SWL <u>5.61</u> (if above screen)		<u>1129</u>	<u>7.35</u>															
		SWL _____ (if in screen)		<u>1135</u>	<u>8.12</u>															
		Measured <u>24.49</u> TD <u>24.53</u> =TD (as built)		<u>1145</u>	<u>8.37</u>															
			Stop	<u>1154</u>																
			Sampled	<u>1155</u>	<u>9.00</u>															
			Final IWL	<u>1156</u>	<u>8.01</u>															
PURGE CALCULATION																				
		0.165 gal/ft. * <u>18.92</u> ft. = <u>3.12</u> gals. x 3		<u>9.35</u> 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: <u>CENT PUMP USED TO PURGE</u> <u>DISPOSABLE BAFFLE USED TO SAMPLE</u> <u>WATERED / RUSED</u> <u>SONDERS / METERS</u>																				
Actual gallons purged <u>10</u> Actual volumes purged <u>3+</u> Well Yield \oplus <u>My</u> COC # <u>NA</u> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Sample I.D.</th> <th>Analysis</th> <th>Lab</th> </tr> <tr> <td><u>MW-7</u></td> <td><u>8260B</u></td> <td><u>BENECIT</u></td> </tr> <tr> <td></td> <td><u>TPH-C</u></td> <td></td> </tr> <tr> <td></td> <td><u>TPH-D</u></td> <td></td> </tr> <tr> <td></td> <td><u>MTDAE / SWLAB</u></td> <td></td> </tr> </table>						Sample I.D.	Analysis	Lab	<u>MW-7</u>	<u>8260B</u>	<u>BENECIT</u>		<u>TPH-C</u>			<u>TPH-D</u>			<u>MTDAE / SWLAB</u>	
Sample I.D.	Analysis	Lab																		
<u>MW-7</u>	<u>8260B</u>	<u>BENECIT</u>																		
	<u>TPH-C</u>																			
	<u>TPH-D</u>																			
	<u>MTDAE / SWLAB</u>																			
Additional Comments:																				
Gallons Purged *	Temp °C	EC (us/cm)	pH	Turbidity (NTU)	Other															
1.	<u>22.2</u>	<u>760</u>	<u>7.21</u>	—	Fe — <u>1.20 mg/l</u>															
2.	<u>22.1</u>	<u>770</u>	<u>7.22</u>	—	DO — <u>1.63 mg/l</u>															
3.	<u>22.1</u>	<u>766</u>	<u>7.25</u>	—	ORP <u>23 mV</u>															
4.																				
5.																				

*Take measurement at \oplus
approximately each casing
volume purged.

HY - Minimal W.L. drop MY - WL drop - able to purge 3 volumes during one sitting 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 <u>ACT-ENVENVIE</u>	EVENT <u>WATER N</u>	SAMPLER <u>EW</u>	ME	DATE <u>9/21/04</u>	
Well type <u>MW</u> (Intake depth <u>15'</u>) 		ACTION	TIME	PUMP RATE (gpm)	
Diameter <u>2"</u> <u>0.165</u> gal/ft. casing =TOP =BOP =TD (as built)		Start Pump / Begin	<u>1139</u>	<u>0.3</u>	
		Stop	<u>1212</u>		
		Sampled	<u>1215</u>		
		Final IWL			
PURGE CALCULATION <u>9.24</u> gal/ft. * <u>0.165</u> ft. = <u>3.17</u> gals. X 3 <u>9.52</u> gals. SWL to TD one volume $2'' = 0.165 \text{ gal/ft.}$ $4'' = 0.65 \text{ gal/ft.}$ $6'' = 1.47 \text{ gal/ft.}$ purge volume - 3 casings					
Equipment Used / Sampling Method / Description of Event: <i>Cent pump used to purge disposable bailer used to sample</i>			Actual gallons purged	<u>10</u>	
			Actual volumes purged	<u>3.15</u>	
			Well Yield \oplus	<u>HY</u>	
			COC #	<u>NA</u>	
			Sample I.D.	Analysis	
			<u>MW-7</u>	<u>8260</u>	
			<u>↓</u>	<u>Nitrate</u>	
Gallons Purged *	Temp °C	EC (us/cm)	pH	Turbidity (NTU)	Other
1. <u>3</u>	<u>26.1</u>	<u>724</u>	<u>6.86</u>	-	
2. <u>6</u>	<u>26.2</u>	<u>731</u>	<u>6.89</u>	-	
3. <u>9</u>	<u>26.3</u>	<u>730</u>	<u>6.90</u>	-	
4.					
5.					

*Take measurement at approximately each casing volume purged.

HY - Minimal W.L. drop LY - Able to purge 3 volumes during one sitting by reducing pump rate or cycling pump VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION Mw-9

PROJECT EMERYVILLE

EVENT QUARTERLY SAMPLER EY. ME

DATE 8/30/04

Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW
Intake depth <u>16</u>	Start Pump / Begin	<u>1205</u>	<u>0.4</u>	
Diameter <u>2'</u>		<u>1210</u>		<u>4.12</u>
<u>0.165</u> gal/ft. casing		<u>1213</u>		<u>4.35</u>
		<u>1217</u>		<u>4.56</u>
	Stop	<u>1226</u>		<u>4.87</u>
	Sampled	<u>1230</u>		
	Final IWL	<u>1231</u>		<u>4.86</u>
	<u>PURGE CALCULATION</u>			
	<u>0.165</u> gal/ft. • <u>17.02</u> ft. = <u>2.8</u> gals. X 3	<u>SWL to TD</u>	<u>one volume</u>	<u>0.42</u> gal purge volume - 3 casings
	$2^* = 0.165 \text{ gal/ft.}$	$4^* = 0.65 \text{ gal/ft.}$	$6^* = 1.47 \text{ gal/ft.}$	

Equipment Used / Sampling Method / Description of Event:

CENT PUMP USED TO PURGE
DISPOSABLE BAGS USED TO STERILE
WASHED / RINSED
SCANNER / METERS

Actual gallons purged

9

Actual volumes purged

34

Well Yield

111

COG #

UA

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1.	21.1	760	6.95	—	FC -	0.03 ^{± 5%} L
2.	21.2	765	6.96	—	DO -	5.12 ^{± 1%} L
3.	21.2	770	6.95	—	ORP -	1 mV
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 -

CAMERON-COLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION

MW-9

PROJECT	Ameryville		EVENT	Quarterly	SAMPLER	BW/NIE	DATE	9/21/01																			
 Well type MW (MW, EW, PZ, etc.)	Well type	MW	ACTION	TIME	PUMP RATE (gpm)	DTW																					
	Diameter	2"	Start Pump / Begin	1220																							
			Stop	1243																							
			Sampled	1245																							
			Final IWL																								
PURGE CALCULATION																											
$0.165 \text{ gal/ft.} \times 16.51 \text{ ft.} = 2.72 \text{ gals.} \times 3 = 8.17 \text{ gals.}$ <small>SWL to TD</small> <small>one volume</small> <small>purge volume - 3 casings</small>																											
$2^* = 0.165 \text{ gal/ft.}$ $4^* = 0.65 \text{ gal/ft.}$ $6^* = 1.47 \text{ gal/ft.}$																											
Equipment Used / Sampling Method / Description of Event: <i>Cent pump used to purge disposable filter used to sample</i>																											
Actual gallons purged <u>9</u> Actual volumes purged <u>3.30</u> Well Yield \oplus COC # <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Sample I.D.</th> <th>Analysis</th> <th>Lab</th> </tr> <tr> <td>MW-9</td> <td>8260 ↓ NITRATE</td> <td>Entech ↓</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>							Sample I.D.	Analysis	Lab	MW-9	8260 ↓ NITRATE	Entech ↓															
Sample I.D.	Analysis	Lab																									
MW-9	8260 ↓ NITRATE	Entech ↓																									
Additional Comments:																											
Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other																						
1. 2.8	25.7	644	7.06	-																							
2. 5	25.4	652	7.10	-																							
3. 8	25.4	653	7.11	-																							
4.																											
5.																											

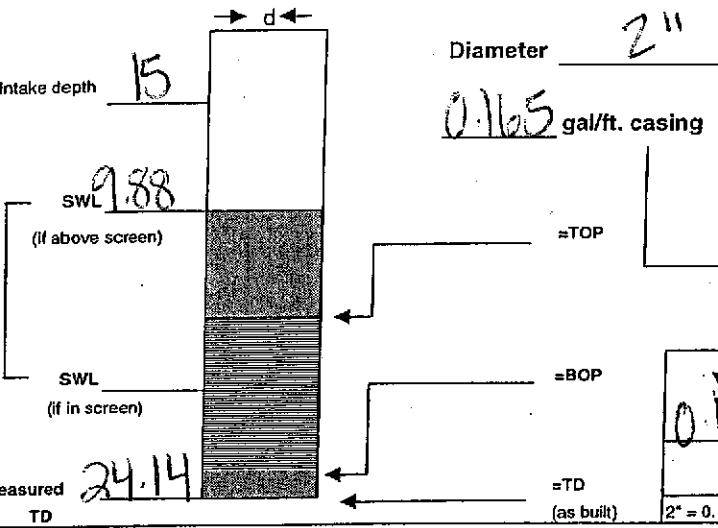
*Take measurement at approximately each casing volume purged.

HY - Minimal W.L. drop
W.L. drop - able to purge 3 volumes during one sitting
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 <u>EMERYVILLE</u>		EVENT <u>QUARTERLY</u>	SAMPLER <u>1/4 MIE</u>	DATE <u>8/30/04</u>	
		Well type <u>MW</u> (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)
		Diameter <u>2"</u>	Start Pump / Begin	<u>1130</u>	<u>0.5</u>
Intake depth <u>15</u>		<u>0.165</u> gal/ft. casing		<u>1141</u>	<u>1154</u>
SWL <u>18.8</u> (if above screen)		=TOP		<u>1146</u>	<u>115</u>
SWL <u> </u> (if in screen)		=BOP			
Measured <u>24.14</u> TD		=TD (as built)			
			PURGE CALCULATION		
			<u>0.165</u> gal/ft. * <u>14.26</u> ft. = <u>2.35</u> gals. X 3	<u>one volume</u>	<u>7.05</u> gals
			<u>2*</u> = <u>0.165</u> gal/ft.	<u>4*</u> = <u>0.65</u> gal/ft.	<u>6*</u> = <u>1.47</u> gal/ft.
Equipment Used / Sampling Method / Description of Event:					
<p><u>CENT PUMP USED TO PURGE</u> <u>DISPOSABLE BAFFLE USED TO STABILIZE</u> <u>WATER / RINSED</u> <u>SONDAR / METERS</u></p>					
<p>Actual gallons purged <u>8.0</u> Actual volumes purged <u>3.40</u> Well Yield \oplus <u>HY</u> COC # <u>NA</u></p>					
<p>Additional Comments: - <u>MW-10</u> <u>8260</u> <u>ENRICHED</u> <u>nitrate sulfate</u> <u>TPH diesel</u> <u>TPH-gas</u></p>					
Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. <u>2</u>	<u>21.0</u>	<u>588</u>	<u>7.00</u>	-	<u>Fe - 3.01 mg/l</u>
2. <u>4</u>	<u>20.6</u>	<u>571</u>	<u>7.02</u>	-	<u>DO - 4.88 mg/l</u>
3. <u>6</u>	<u>21.1</u>	<u>564</u>	<u>7.03</u>	-	<u>ORP - 85 mV</u>
4.					
5.					
<small>*Take measurement at \oplus approximately each casing <u>HY</u> - Minimal W.L. drop <u>MY</u> - WL drop - able to purge 3 volumes during one sitting by reducing pump rate or cycling pump <u>LY</u> - Able to purge 3 volumes by returning later or next day. <u>VLY</u> - Minimal recharge - unable to purge 3 volumes.</small>					

CAMERON-COLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION MW-10

PROJECT <u>EMMVILLE</u>	EVENT <u>Quarterly</u>	SAMPLER <u>PWME</u>	DATE <u>9/21/04</u>																									
		<table border="1"> <tr> <th>Well type (MW, EW, PZ, etc.)</th> <th>ACTION</th> <th>TIME</th> <th>PUMP RATE (gpm)</th> <th>DTW</th> </tr> <tr> <td><u>MW</u></td> <td>Start Pump / Begin</td> <td><u>1251</u></td> <td><u>0.5</u></td> <td></td> </tr> <tr> <td></td> <td>Stop</td> <td><u>1307</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Sampled</td> <td><u>1310</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Final IWL</td> <td></td> <td></td> <td></td> </tr> </table>	Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW	<u>MW</u>	Start Pump / Begin	<u>1251</u>	<u>0.5</u>			Stop	<u>1307</u>				Sampled	<u>1310</u>				Final IWL				<p align="center">PURGE CALCULATION</p> $0.165 \text{ gal/ft.} \times 14.39 \text{ ft.} = 2.37 \text{ gals.} \times 3 = 7.12 \text{ gals.}$ <p align="center">SWL to TD one volume purge volume - 3 casings</p> <p align="center">2* = 0.165 gal/ft. 4* = 0.65 gal/ft. 6* = 1.47 gal/ft.</p>
Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW																								
<u>MW</u>	Start Pump / Begin	<u>1251</u>	<u>0.5</u>																									
	Stop	<u>1307</u>																										
	Sampled	<u>1310</u>																										
	Final IWL																											
Equipment Used / Sampling Method / Description of Event: <u>Cent pump used to purge</u> <u>Disposable filter used to sample</u>			<p>Actual gallons purged <u>8</u></p> <p>Actual volumes purged <u>3.4</u></p> <p>Well Yield \oplus <u>HY</u></p> <p>COC # <u>NA</u></p> <table border="1"> <tr> <td>Sample I.D.</td> <td>Analysis</td> <td>Lab</td> </tr> <tr> <td><u>MW-10</u></td> <td><u>8260</u></td> <td><u>Envtech</u></td> </tr> <tr> <td><u>V</u></td> <td><u>Nitrate</u></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Sample I.D.	Analysis	Lab	<u>MW-10</u>	<u>8260</u>	<u>Envtech</u>	<u>V</u>	<u>Nitrate</u>																	
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<u>V</u>	<u>Nitrate</u>																											
Additional Comments:																												
Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other																							
1. <u>2</u>	<u>23.1</u>	<u>151</u>	<u>7.66</u>	<u>-</u>																								
2. <u>4.5</u>	<u>23.2</u>	<u>8020</u>	<u>7.65</u>	<u>-</u>																								
3. <u>7</u>	<u>23.1</u>	<u>2628</u>	<u>7.62</u>	<u>-</u>																								
4.																												
5.																												

*Take measurement at approximately each casing volume purged. \oplus HY-Minimal W.L. drop HY - 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

Equipment Used / Sampling Method / Description of Event:

CENT PUMP USED TO PURGE
DISPOSABLE BAIRAC USED TO STERILE
WAS ITED / RINSED
SOUNDER / METERS

Actual gallons purged	_____
Actual volumes purged	3+
Well Yield \oplus	Hy
COC #	NA

Additional Comments:

Sample I.D.	Analysis	Lab
MW-11	8260D ^{NITRATE} TPH-C	ENRCH
	TPH-D	
	NITRATE/SULFATE	

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other	
1.	22.2	767	7.67	-	EC = 0 mg/L	
2.	22.1	776	7.62	-	DO = 3.89 mg/L	
3.	22.2	782	7.65	--	ORP = 72 mV	
4.	22.2	764				
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	ACTonville	EVENT	Quarry	SAMPLER	PW/MG	DATE	9/21/04
Intake depth	12'	Well type	MW	ACTION	TIME	PUMP RATE	DTW
(MW, EW, PZ, etc.)		Diameter	21"	Start Pump / Begin	1112	(gpm)	H2O
			0.165 gal/ft. casing			0.5	
swl (if above screen)	11.12	=TOP		Stop	1126		
SWL (if in screen)		=BOP		Sampled	1130		
Measured TD	17.32	=TD (as built)		Final IWL			
				PURGE CALCULATION			
				0.165 gal/ft. * 13.20 ft. = 2.18 gals. X 3	one volume	6.54 gals.	purge volume - 3 casings
				SWL to TD			
				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
disposable bailer used to sample

Actual gallons purged

7

Actual volumes purged

3.21

Well Yield \oplus

HY

COC #

Sample I.D.

Analysis

Lab

MW-11
↓

3260
Nitrate

Eptech
↓

Additional Comments:

Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)	Other
1. 7	25.4	570	7.49	-	
2. 4	25.3	560	7.75	-	
3. 6	25.4	565	7.48	-	
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
LY - Able to purge 3 volumes by returing later or next day.
VLY - Minimal recharge - unable to purge 3 volumes.

CAMERON-COLE
SAMPLING EVENT DATA SHEET

WELL OR LOCATION

MW-12

PROJECT <u>EMERYVILLE</u>		EVENT <u>QUARTERLY SAMPLER</u>	<u>FM NE</u>	DATE <u>8/30/04</u>
		Well type <u>MW</u> (MW, EW, PZ, etc.)	ACTION	TIME
		Diameter <u>2"</u>	Start Pump / Begin	<u>1216</u>
		<u>0.165</u> gal/ft. casing		<u>1223</u>
		=TOP		<u>1226</u>
		=BOP	Stop	<u>1230</u>
		=TD (as built)	Sampled	
			Final IWL	
PURGE CALCULATION				
		<u>0.165</u> gal/ft. * <u>19.47</u> ft. = <u>3.21</u> gals. X 3	<u>SWL to TD</u>	<u>9.63</u> gals
		<u>2" = 0.165 gal/ft.</u>	<u>4" = 0.65 gal/ft.</u>	<u>6" = 1.47 gal/ft.</u>
Equipment Used / Sampling Method / Description of Event: <u>CENT PUMP USED TO PURGE</u> <u>DISPOSABLE BAIRAC USED TO SAMPLE</u> <u>WATERED / RINSED</u> <u>SAUNDER / METERS</u>				
Actual gallons purged <u>10</u> Actual volumes purged <u>3.12</u> Well Yield \oplus <u>44</u> COC # <u>MA</u>				
Additional Comments: <u>HW-12</u> <u>8260</u> , <u>EnTech</u> <u>middle silt</u> , <u>TPH-gas</u> <u>TPH-diesel</u>				
Gallons Purged *	Temp °C	EC (us / cm)	pH	Turbidity (NTU)
1. <u>3</u>	<u>21.9</u>	<u>601</u>	<u>6.98</u>	<u>-</u>
2. <u>6</u>	<u>22.3</u>	<u>601</u>	<u>6.77</u>	<u>-</u>
3. <u>9</u>	<u>22.0</u>	<u>595</u>	<u>6.80</u>	<u>-</u>
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 <u>Everville</u>	EVENT <u>Quarterly</u>	SAMPLER <u>DW+ME</u>	DATE <u>9/21/04</u>																																					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well type (MW, EW, PZ, etc.)</th> <th>ACTION</th> <th>TIME</th> <th>PUMP RATE (gpm)</th> <th>DTW</th> </tr> <tr> <td><u>MW</u></td> <td>Start Pump / Begin</td> <td><u>1316</u></td> <td><u>0.75</u></td> <td></td> </tr> <tr> <td><u>2"</u></td> <td>Stop</td> <td><u>1329</u></td> <td></td> <td></td> </tr> <tr> <td><u>0.165</u> gal/ft. casing</td> <td>Sampled</td> <td><u>1335</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Final IWL</td> <td></td> <td></td> <td></td> </tr> </table>	Well type (MW, EW, PZ, etc.)	ACTION	TIME	PUMP RATE (gpm)	DTW	<u>MW</u>	Start Pump / Begin	<u>1316</u>	<u>0.75</u>		<u>2"</u>	Stop	<u>1329</u>			<u>0.165</u> gal/ft. casing	Sampled	<u>1335</u>				Final IWL				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">PURGE CALCULATION</th> </tr> <tr> <td><u>0.165</u> gal/ft. * <u>19.50</u> ft. =</td> <td><u>3.22</u> gals. X 3</td> <td><u>9.66</u> gals.</td> </tr> <tr> <td>SWL to TD</td> <td>one volume</td> <td>purge volume - 3 casings</td> </tr> <tr> <td><u>2" = 0.165 gal/ft.</u></td> <td><u>4" = 0.65 gal/ft.</u></td> <td><u>6" = 1.47 gal/ft.</u></td> </tr> </table>	PURGE CALCULATION			<u>0.165</u> gal/ft. * <u>19.50</u> ft. =	<u>3.22</u> gals. X 3	<u>9.66</u> gals.	SWL to TD	one volume	purge volume - 3 casings	<u>2" = 0.165 gal/ft.</u>	<u>4" = 0.65 gal/ft.</u>	<u>6" = 1.47 gal/ft.</u>
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Equipment Used / Sampling Method / Description of Event: cent pump used to purge disposable beaker used to sample		Actual gallons purged	<u>10</u>																																					
		Actual volumes purged	<u>3.10</u>																																					
		Well Yield \oplus	<u>HY</u>																																					
		COC #	<u>NA</u>																																					
		Sample I.D.	Analysis	Lab																																				
<u>MW-12</u>	<u>8260</u>	<u>PTech</u>																																						
	<u>NITRATE</u>	<u>↓</u>																																						
Gallons Purged *	Temp °C	EC (µs/cm)	pH	Turbidity (NTU)	Other																																			
1. <u>3</u>	<u>23.1</u>	<u>352</u>	<u>7.05</u>	-																																				
2. <u>6</u>	<u>23.2</u>	<u>542</u>	<u>7.06</u>	-																																				
3. <u>9</u>	<u>23.1</u>	<u>545</u>	<u>5.62</u>	-																																				
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 returing later or next day. VLY - Minimal recharge - unable to purge 3 volumes.