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January 29, 2010

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Alameda County
Environmental Health

Project No. 166562

Mr. Steven Plunkett
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
1131 Harbor Bay Parkway
Alameda, California 94502-6577

SITE: QUIK STOP MARKET NO. 56
3132 BEAUMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT
FOURTH QUARTER 2009

Dear Mr. Plunkett:

Enclosed is a copy of the *Fourth Quarter 2009 Quarterly Groundwater Monitoring Report* for the property located at 3132 Beaumont Avenue in Oakland, California. This report is submitted on behalf of Quik Stop Markets, Inc.

Please direct all questions and correspondence to:

Mr. Mike Karvelot
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538
Phone: (510) 657-8500

Sincerely,

Jonathan Scheiner
Project Manager

cc: Mr. Mike Karvelot, Quik Stop Markets, Inc.



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Mr. Mike Karvelot
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538

SITE: QUIK STOP MARKET NO. 56
3132 BEAUMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT
FOURTH QUARTER 2009

Dear Mr. Karvelot:

This *Fourth Quarter 2009 Quarterly Groundwater Monitoring Report* presents the results of the Fourth Quarter 2009 fluid level monitoring and groundwater sampling at the above-referenced site (Figure 1). The work at the Site was performed in accordance with the requirements of the Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH).

1.0 FLUID-LEVEL MONITORING AND GROUNDWATER FLOW PATTERNS

Fluid levels were measured in onsite monitoring wells MW-1, MW-2, and MW-3, and offsite monitoring wells MW-4, MW-5, MW-6 and MW-7 on December 8, 2009. Refer to Table 1 for fluid-level monitoring data, and to Figure 2 for a groundwater elevation contour map based on the fluid-level measurements. A description of fluid-level monitoring procedures is included in the Appendix.

Groundwater elevations range between 122.60 feet above mean sea level (MSL) in MW-6 at the south end of the study area to 130.43 feet above MSL in MW-3 in the north, with an average elevation of 126.42 feet above MSL. Groundwater flow direction was predominantly to the southwest at a gradient of 0.089 feet per foot in the northern portion of the study area, and approximately 0.024 feet per foot over the entire extent of the well network (i.e., extending to MW-6 at the southern end of the study area). South-southeastern and western components of groundwater flow are also evident at the west and east portions of the well network, respectively. The observed variation in groundwater flow direction and gradient may be attributed to local topography, with 14th Avenue (Beaumont Avenue) forming a north-south depression relative to the steeply trending perpendicular

QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2009

Quik Stop Market No. 56-3132 Beaumont Avenue, Oakland, California

January 29, 2010

East 31st Street to the east and west. Surface topography is also generally steeper at the north end of the study area (near Site) than at the south end (near MW-6), which could explain the gentler gradient in the south relative to that in the northern portion of the study area.

2.0 GROUNDWATER SAMPLING

2.1 Field Sampling and Analytical Testing

On December 8, 2009, groundwater samples were collected from onsite wells MW-1, MW-2, and MW-3, and offsite monitoring wells MW-4, MW-5, MW-6 and MW-7. Approximately 69 gallons of purge water and equipment rinsate were generated during groundwater sampling activities conducted on December 8, 2009. The purge water was stored onsite in two Department of Transportation-approved 55-gallon drums pending disposal. General Field Procedures, Field Measurement Forms, Official Laboratory Reports, and Chain of Custody Records are included in the Appendix. Groundwater samples were submitted to a state-certified laboratory for analysis of the following constituents:

- Total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method SW8015B
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method SW8260B.
- Fuel Oxygenates by EPA Method 8260B, including:
 - Methyl tert-butyl ether (MTBE)
 - Tertiary butyl alcohol (TBA)
 - Di-isopropyl ether (DIPE)
 - Ethyl tertiary butyl ether (ETBE)
 - Tertiary amyl methyl ether (TAME)
- Ethanol by EPA Method SW8260B-DI.

2.2 Analytical Results

Fourth Quarter 2009 groundwater analytical results are summarized in Table 1 and Figure 3. TPH-G concentrations reported during this event ranged from non-detect (<50 micrograms per liter [$\mu\text{g}/\text{L}$]) to 780 $\mu\text{g}/\text{L}$ (MW-4). MTBE concentrations ranged from non-detect (<0.50 $\mu\text{g}/\text{L}$) to 1,300 $\mu\text{g}/\text{L}$ (MW-1), and TBA concentrations ranged from non-detect (<10 $\mu\text{g}/\text{L}$) to 9,900 $\mu\text{g}/\text{L}$ (MW-1) during this sampling event. No other analytes were detected above their respective reporting limits.

2.3 Discussion

The Fourth Quarter 2009 monitoring event represents the second monitoring with the expanded well network (i.e., including offsite wells MW-4 through MW-7), and is also the second monitoring event to include the analysis of dissolved phase TBA, DIPE, ETBE and TAME. In general, the results are consistent with those from historic sampling events and the previous Third Quarter 2009 monitoring event.

The presence of detectable levels of TPH-G and TBA was reported in the southern (downgradient) Site area, in wells MW-1 and MW-4, the latter located immediately beyond the southern Site perimeter.



QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2009

Quik Stop Market No. 56-3132 Beaumont Avenue, Oakland, California

January 29, 2010

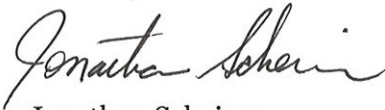
MTBE was detected in five of the seven groundwater samples analyzed (i.e., except for MW-3 and MW-5). The maximum concentration of MTBE was reported in MW-1, which is consistent with historical results. The spatial pattern of MTBE in groundwater is not readily apparent, but will be the subject of ongoing investigation as part of the required Site Conceptual Model currently being developed per ACDEH request.

3.0 LIST OF ATTACHMENTS

- Figure 1: Vicinity Map
- Figure 2: Groundwater Elevation Contour Map, December 8, 2009
- Figure 3: Dissolved-Phase Constituent Concentrations, December 8, 2009
- Table 1: Summary of Groundwater Levels and Chemical Analysis
- Appendix: General Field Procedures, Field Measurement Forms, Official Laboratory Reports, and Chain of Custody Records

If you have any questions regarding this report, please call me at (925) 688-2473.

Sincerely,



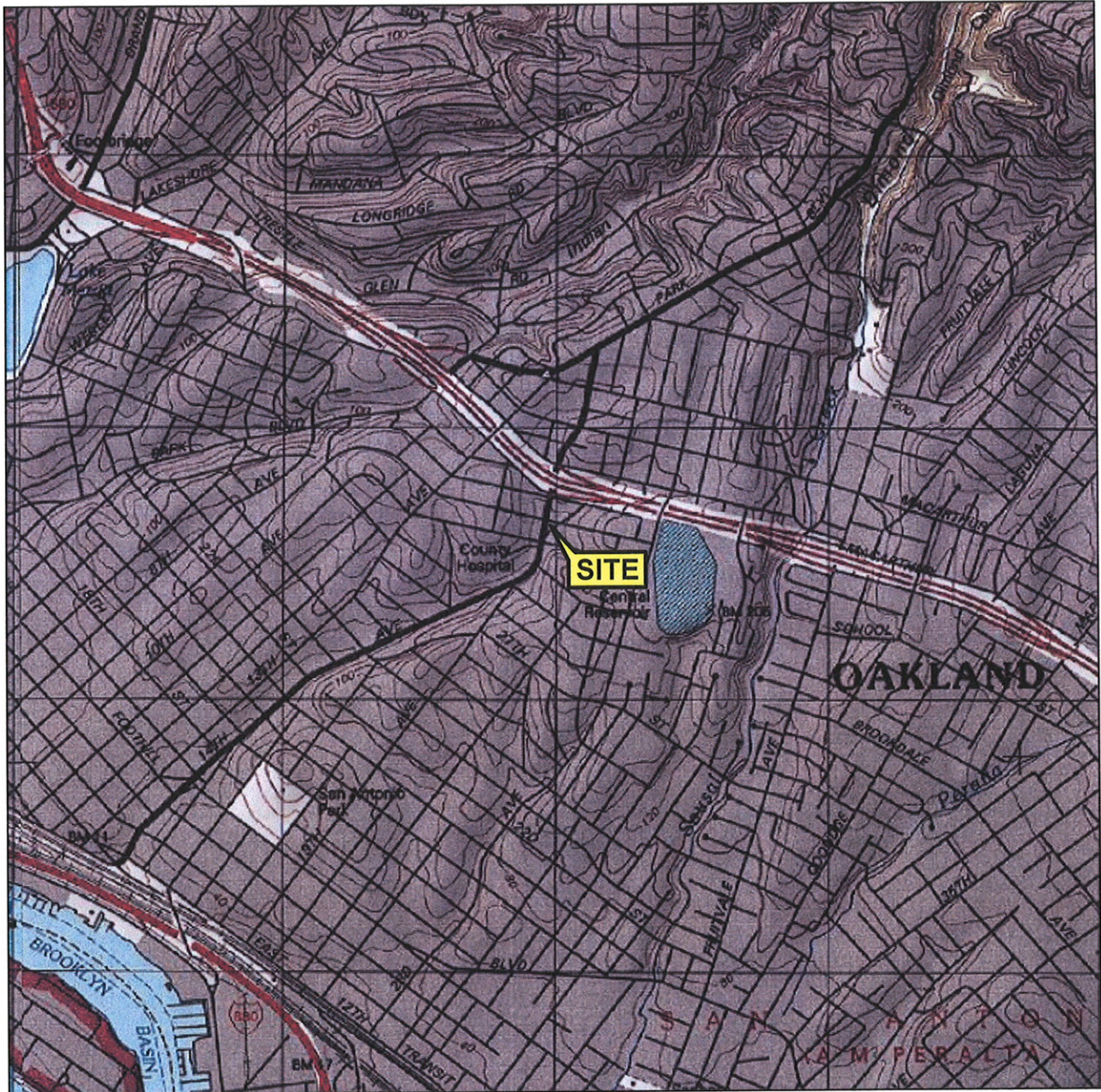
Jonathan Scheiner
Project Manager



Keith Woodburne, P.G.
Senior Project Geologist



FIGURES



1 MILE 3/4 1/2 1/4 0 1 MILE



SCALE 1 : 24,000



QUADRANGLE
LOCATION

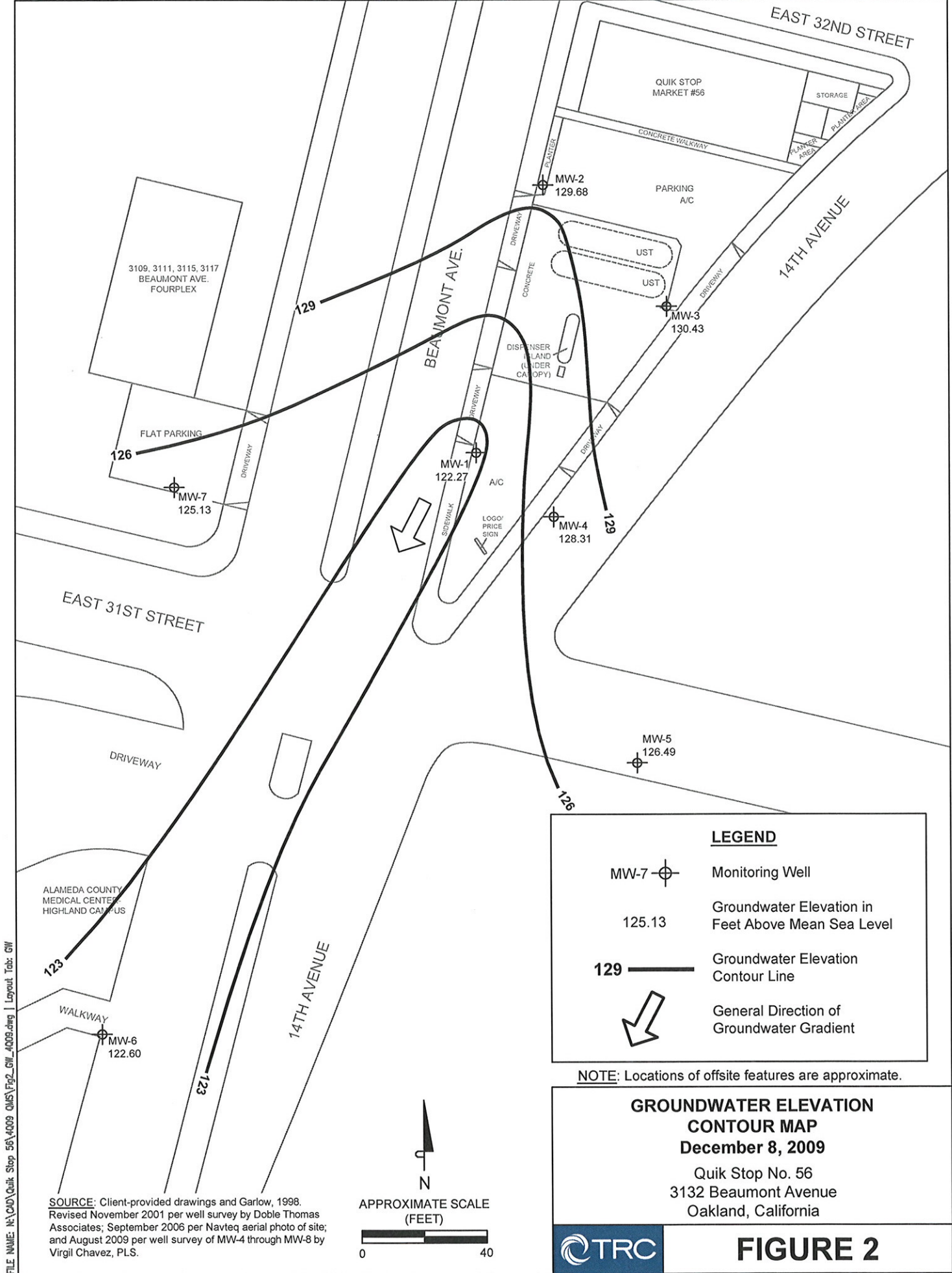
SOURCE:
United States Geological Survey
7.5 Minute Topographic Maps:
Oakland East and
Oakland West Quadrangles

VICINITY MAP

Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

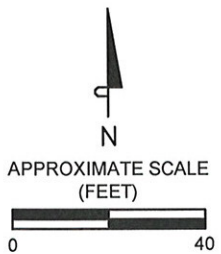


FIGURE 1



FILE NAME: N:\CAD\Quik Stop 56\4009 QMS\Fig2_GW_4009.dwg | Layout Tab: GW

SOURCE: Client-provided drawings and Garlow, 1998.
 Revised November 2001 per well survey by Doble Thomas Associates; September 2006 per Navteq aerial photo of site; and August 2009 per well survey of MW-4 through MW-8 by Virgil Chavez, PLS.



LEGEND

- MW-7 Monitoring Well
- 125.13 Groundwater Elevation in Feet Above Mean Sea Level
- 129 Groundwater Elevation Contour Line
- General Direction of Groundwater Gradient

NOTE: Locations of offsite features are approximate.

**GROUNDWATER ELEVATION
 CONTOUR MAP
 December 8, 2009**

Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California

TABLE

Table 1
Summary of Groundwater Levels and Chemical Analysis
 Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	Ethanol (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	DO (mg/L)
MW-1	03/02/00	131.58	10.33	121.25	670	<1.0	<1.0	<1.0	<1.0	2,200	—	—	—	—	—	0.62
MW-1	11/16/00	131.58	11.86	119.72	<500	<0.5	<0.5	<0.5	<0.5	18,000	—	—	—	—	—	0.34
MW-1	01/23/01	131.58	11.05	120.53	6,400	<10	<10	<10	<10	21,000	—	—	—	—	—	0.83
MW-1	04/25/01	131.58	12.06	119.52	12,000	<20	<20	<20	<20	17,000	—	—	—	—	—	0.39
MW-1	07/24/01	131.58	12.42	119.16	8,800	<13	<13	<13	<13	14,000	—	—	—	—	—	7.61
MW-1	11/08/01	131.58	12.00	119.58	18,000	<25	<25	<25	<25	28,000	—	—	—	—	—	—
MW-1	11/27/01	134.13	Well resurveyed to new reference point													
MW-1	02/05/02	134.13	10.99	123.14	28,000	<50	<50	<50	<50	44,000	—	—	—	—	—	—
MW-1	04/29/02	134.13	10.97	123.16	12,000	<25	<25	<25	<25	30,000	—	—	—	—	—	—
MW-1	07/29/02	134.13	10.20	123.93	16,000	<25	<25	<25	<25	22,000	—	—	—	—	—	—
MW-1	10/21/02	134.13	10.48	123.65	17,000	<50	<50	<50	<50	39,000	—	—	—	—	—	—
MW-1	03/05/03	134.13	8.94	125.19	40,000	<100	<100	<100	<100	69,000	—	—	—	—	—	—
MW-1	06/06/03	134.13	8.68	125.45	27,000	<50	<50	<50	<50	63,000	—	—	—	—	—	—
MW-1	09/05/03	134.13	9.21	124.92	28,000	<25	<25	<25	<25	51,000	—	—	—	—	—	—
MW-1	12/24/03	134.13	8.65	125.48	29,000	<50	<50	<50	<50	84,000	—	—	—	—	—	—
MW-1	03/25/04	134.13	8.66	125.47	39,000	<100	<100	<100	<100	72,000	—	—	—	—	—	—
MW-1	06/25/04	134.13	8.66	125.47	50,000	<100	<100	<100	<100	90,000	—	—	—	—	—	—
MW-1	09/16/04	134.13	9.02	125.11	30,000	<50	<50	<50	<50	75,000	—	—	—	—	—	—
MW-1	12/17/04	134.13	7.46	126.67	35,000	<50	<50	<50	<50	59,000	—	—	—	—	—	—
MW-1	03/10/05	134.13	7.17	126.96	14,000	<25	<25	<25	<25	33,000	—	—	—	—	—	—
MW-1	06/09/05	134.13	8.14	125.99	36,000	<50	<50	<50	<50	60,000	—	—	—	—	—	—
MW-1	09/13/05	134.13	12.64	121.49	<20,000	<100	<100	<100	<100	32,000	—	—	—	—	—	—
MW-1	12/06/05	134.13	11.40	122.73	<5,000	<25	<25	<25	<25	5,700	—	—	—	—	—	—
MW-1	03/29/06	134.13	10.51	123.62	16,000	<25	<25	<25	<25	23,000	—	—	—	—	—	—
MW-1	06/29/06	134.13	11.28	122.85	8,200	<15	<15	<15	<15	12,000	<5.0	—	—	—	—	—
MW-1	09/21/06	134.13	11.90	122.23	4,500	<10	<10	<10	<10	7,900	<5.0	—	—	—	—	—
MW-1	12/08/06	134.13	11.65	122.48	3,900	<10	<10	<10	<10	4,100	<5.0	—	—	—	—	—
MW-1	03/28/07	134.13	11.22	122.91	5,000	<10	<10	<10	<10	7,700	<5.0	—	—	—	—	—
MW-1	06/14/07	134.13	12.18	121.95	3,600	<10	<10	<10	<10	4,300	<5.0	—	—	—	—	—
MW-1	09/06/07	134.13	12.84	121.29	3,400	<10	<10	<10	<10	4,500	<5.0	—	—	—	—	—
MW-1	12/31/07	134.13	12.52	121.61	2,900	<5.0	<5.0	<5.0	<5.0	3,300	<5.0	—	—	—	—	—
MW-1	03/18/08	134.13	12.74	121.39	1,800	<2.5	<2.5	<2.5	<2.5	3,400	<5.0	—	—	—	—	—
MW-1	06/30/08	134.13	13.00	121.13	1,400	<2.5	<2.5	<2.5	<2.5	2,400	<5.0	—	—	—	—	—
MW-1	09/26/08	134.13	13.77	120.36	1,100	<2.0	<2.0	<2.0	<2.0	2,200	<5.0	—	—	—	—	—
MW-1	11/25/08	134.13	13.57	120.56	1,300	<2.5	<2.5	<2.5	<2.5	2,000	<5.0	—	—	—	—	—
MW-1	03/09/09	134.13	11.09	123.04	1,100	<2.0	<2.0	<2.0	<2.0	1,600	<5.0	—	—	—	—	—
MW-1	06/29/09	134.13	11.33	122.80	430	<1.0	<1.0	<1.0	<1.0	730	<5.0	—	—	—	—	—
MW-1	09/11/09	134.13	11.01	123.12	880	<2.5	<2.5	<2.5	<2.5	980	<5.0	7,000	<5.0	<5.0	<5.0	—
MW-1	12/08/09	134.13	11.86	122.27	710	<2.5	<2.5	<2.5	<2.5	1,300	<5.0	9,900	<5.0	<5.0	<5.0	—
MW-2	03/02/00	132.63	5.88	126.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	1.45
MW-2	11/16/00	132.63	6.40	126.23	<50	<0.5	<0.5	<0.5	<0.5	<1.0	—	—	—	—	—	1.67
MW-2	01/23/01	132.63	5.67	126.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	1.20
MW-2	04/25/01	132.63	6.26	126.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	0.76
MW-2	07/24/01	132.63	6.38	126.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	2.92
MW-2	11/08/01	132.63	5.97	126.66	<50	<0.50	<0.50	<0.50	<0.50	2.7	—	—	—	—	—	—

Table 1
Summary of Groundwater Levels and Chemical Analysis
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MW-2	11/27/01	135.16	Well resurveyed to new reference point														
MW-2	02/05/02	135.16	4.95	130.21	<50	<0.50	<0.50	<0.50	<0.50	2.7	---	---	---	---	---	---	
MW-2	04/29/02	135.16	5.03	130.13	<50	<0.50	<0.50	<0.50	<0.50	2.8	---	---	---	---	---	---	
MW-2	07/29/02	135.16	5.46	129.70	<50	<0.50	<0.50	<0.50	<0.50	4.1	---	---	---	---	---	---	
MW-2	10/21/02	135.16	5.68	129.48	<50	<0.50	<0.50	<0.50	<0.50	8.1	---	---	---	---	---	---	
MW-2	03/05/03	135.16	4.87	130.29	<50	1.4	<0.50	0.61	0.69	5.5	---	---	---	---	---	---	
MW-2	06/06/03	135.16	4.88	130.28	<50	<0.50	<0.50	<0.50	<0.50	5.2	---	---	---	---	---	---	
MW-2	09/05/03	135.16	5.60	129.56	<50	<0.50	<0.50	<0.50	0.66	6.4	---	---	---	---	---	---	
MW-2	12/24/03	135.16	5.25	129.91	<50	<0.50	<0.50	<0.50	<0.50	5.4	---	---	---	---	---	---	
MW-2	03/25/04	135.16	5.25	129.91	<50	<0.50	<0.50	<0.50	<0.50	5.3	---	---	---	---	---	---	
MW-2	06/25/04	135.16	6.89	128.27	<50	<0.50	<0.50	<0.50	<0.50	5.4	---	---	---	---	---	---	
MW-2	09/16/04	135.16	6.09	129.07	<50	<0.50	<0.50	<0.50	<0.50	5.5	---	---	---	---	---	---	
MW-2	12/17/04	135.16	5.30	129.86	<50	<0.50	<0.50	<0.50	<0.50	5.4	---	---	---	---	---	---	
MW-2	03/10/05	135.16	4.49	130.67	<50	<0.50	<0.50	<0.50	<0.50	3.7	---	---	---	---	---	---	
MW-2	06/09/05	135.16	4.85	130.31	<50	<0.50	<0.50	<0.50	<0.50	4.8	---	---	---	---	---	---	
MW-2	09/13/05	135.16	5.82	129.34	<50	<0.50	<0.50	<0.50	<0.50	5.6	---	---	---	---	---	---	
MW-2	12/06/05	135.16	5.14	130.02	<50	<0.50	<0.50	<0.50	<0.50	4.5	---	---	---	---	---	---	
MW-2	03/29/06	135.16	4.27	130.89	<50	<0.50	<0.50	<0.50	<0.50	4.4	---	---	---	---	---	---	
MW-2	06/29/06	135.16	5.21	129.95	<50	<0.50	<0.50	<0.50	<0.50	5.1	<5.0	---	---	---	---	---	
MW-2	09/21/06	135.16	5.62	129.54	<50	<0.50	<0.50	<0.50	<0.50	3.3	<5.0	---	---	---	---	---	
MW-2	12/08/06	135.16	5.29	129.87	<50	<0.50	<0.50	<0.50	<0.50	3.1	<5.0	---	---	---	---	---	
MW-2	03/28/07	135.16	5.08	130.08	<50	<0.50	<0.50	<0.50	<0.50	2.5	<5.0	---	---	---	---	---	
MW-2	06/14/07	135.16	5.30	129.86	<50	<0.50	<0.50	<0.50	<0.50	1.5	<5.0	---	---	---	---	---	
MW-2	09/06/07	135.16	5.64	129.52	<50	<0.50	<0.50	<0.50	<0.50	3.2	<5.0	---	---	---	---	---	
MW-2	12/31/07	135.16	5.10	130.06	<50	<0.50	<0.50	<0.50	<0.50	1.8	<5.0	---	---	---	---	---	
MW-2	03/18/08	135.16	5.45	129.71	<50	<0.50	<0.50	<0.50	<0.50	1.8	<5.0	---	---	---	---	---	
MW-2	06/30/08	135.16	5.61	129.55	<50	<0.50	<0.50	<0.50	<0.50	1.0	<5.0	---	---	---	---	---	
MW-2	09/26/08	135.16	6.00	129.16	<50	<0.50	<0.50	<0.50	<0.50	1.7	<5.0	---	---	---	---	---	
MW-2	11/25/08	135.16	5.73	129.43	<50	<0.50	<0.50	<0.50	<0.50	1.4	<5.0	---	---	---	---	---	
MW-2	03/09/09	135.16	4.56	130.60	<50	<0.50	<0.50	<0.50	<0.50	1.7	<5.0	---	---	---	---	---	
MW-2	06/29/09	135.16	5.39	129.77	<50	<0.50	<0.50	<0.50	<0.50	1.1	<5.0	---	---	---	---	---	
MW-2	09/11/09	135.16	5.78	129.38	<50	<0.50	<0.50	<0.50	<0.50	1.4	<5.0	<10	<1.0	<1.0	<1.0	---	
MW-2	12/08/09	135.16	5.48	129.68	<50	<0.50	<0.50	<0.50	<0.50	1.5	<5.0	<10	<1.0	<1.0	<1.0	---	
MW-3	03/02/00	133.78	6.41	127.37	<50	<0.50	<0.50	<0.50	<0.50	0.96	---	---	---	---	---	0.90	
MW-3	11/16/00	133.78	6.46	127.32	<50	<0.5	<0.5	<0.5	<0.5	24	---	---	---	---	---	3.91	
MW-3	01/23/01	133.78	5.75	128.03	<50	<0.50	<0.50	<0.50	<0.50	72	---	---	---	---	---	1.47	
MW-3	04/25/01	133.78	5.90	127.88	<50	<0.50	<0.50	<0.50	<0.50	25	---	---	---	---	---	0.56	
MW-3	07/24/01	133.78	6.56	127.22	<50	<0.50	0.79	0.73	0.68	5.2	---	---	---	---	---	6.67	
MW-3	11/08/01	133.78	6.92	126.86	<50	<0.50	<0.50	<0.50	<0.50	14	---	---	---	---	---	---	
MW-3	11/27/01	136.35	Well resurveyed to new reference point														
MW-3	02/05/02	136.35	5.13	131.22	<50	<0.50	<0.50	<0.50	<0.50	10	---	---	---	---	---	---	
MW-3	04/29/02	136.35	5.67	130.68	<50	<0.50	<0.50	<0.50	<0.50	5.1	---	---	---	---	---	---	
MW-3	07/29/02	136.35	6.11	130.24	<50	<0.50	<0.50	<0.50	<0.50	31	---	---	---	---	---	---	
MW-3	10/21/02	136.35	6.57	129.78	<50	<0.50	<0.50	<0.50	<0.50	5.8	---	---	---	---	---	---	
MW-3	03/05/03	136.35	5.02	131.33	<50	<0.50	<0.50	<0.50	<0.50	4.9	---	---	---	---	---	---	

Table 1
Summary of Groundwater Levels and Chemical Analysis
 Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	Ethanol (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	DO (mg/L)
MW-3	06/06/03	136.35	5.12	131.23	<50	<0.50	<0.50	<0.50	<0.50	6.6	—	—	—	—	—	—
MW-3	09/05/03	136.35	6.53	129.82	<50	<0.50	<0.50	<0.50	<0.50	4.4	—	—	—	—	—	—
MW-3	12/24/03	136.35	5.20	131.15	<50	<0.50	<0.50	<0.50	<0.50	1.2	—	—	—	—	—	—
MW-3	03/25/04	136.35	5.42	130.93	<50	<0.50	<0.50	<0.50	<0.50	3.2	—	—	—	—	—	—
MW-3	06/25/04	136.35	6.50	129.85	<50	<0.50	<0.50	<0.50	<0.50	13	—	—	—	—	—	—
MW-3	09/16/04	136.35	6.79	129.56	<50	<0.50	<0.50	<0.50	<0.50	3.0	—	—	—	—	—	—
MW-3	12/17/04	136.35	5.20	131.15	<50	<0.50	<0.50	<0.50	<0.50	1.6	—	—	—	—	—	—
MW-3	03/10/05	136.35	4.42	131.93	<50	<0.50	<0.50	<0.50	<0.50	3.8	—	—	—	—	—	—
MW-3	06/09/05	136.35	4.98	131.37	<50	<0.50	<0.50	<0.50	<0.50	3.6	—	—	—	—	—	—
MW-3	09/13/05	136.35	6.42	129.93	<50	<0.50	<0.50	<0.50	<0.50	11	—	—	—	—	—	—
MW-3	12/06/05	136.35	5.35	131.00	<50	<0.50	<0.50	<0.50	<0.50	1.4	—	—	—	—	—	—
MW-3	03/29/06	136.35	4.01	132.34	<50	<0.50	<0.50	<0.50	<0.50	3.2	—	—	—	—	—	—
MW-3	06/29/06	136.35	5.41	130.94	<50	<0.50	<0.50	<0.50	<0.50	3.5	<5.0	—	—	—	—	—
MW-3	09/21/06	136.35	6.31	130.04	<50	<0.50	<0.50	<0.50	<0.50	2.1	<5.0	—	—	—	—	—
MW-3	12/08/06	136.35	5.75	130.60	<50	<0.50	<0.50	<0.50	<0.50	1.6	<5.0	—	—	—	—	—
MW-3	03/28/07	136.35	5.09	131.26	<50	<0.50	<0.50	<0.50	<0.50	2.0	<5.0	—	—	—	—	—
MW-3	06/14/07	136.35	5.47	130.88	<50	<0.50	<0.50	<0.50	<0.50	1.1	<5.0	—	—	—	—	—
MW-3	09/06/07	136.35	6.35	130.00	<50	<0.50	<0.50	<0.50	<0.50	2.4	<5.0	—	—	—	—	—
MW-3	12/31/07	136.35	5.21	131.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—
MW-3	03/18/08	136.35	5.59	130.76	<50	<0.50	<0.50	<0.50	<0.50	0.77	<5.0	—	—	—	—	—
MW-3	06/30/08	136.35	6.16	130.19	<50	<0.50	<0.50	<0.50	<0.50	0.68	<5.0	—	—	—	—	—
MW-3	09/26/08	136.35	6.84	129.51	<50	<0.50	<0.50	<0.50	<0.50	0.54	<5.0	—	—	—	—	—
MW-3	11/25/08	136.35	6.37	129.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—
MW-3	03/09/09	136.35	4.19	132.16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—
MW-3	06/29/09	136.35	5.94	130.41	<50	<0.50	<0.50	<0.50	<0.50	0.68	<5.0	—	—	—	—	—
MW-3	09/11/09	136.35	6.64	129.71	<50	<0.50	<0.50	<0.50	<0.50	0.65	<5.0	<10	<1.0	<1.0	<1.0	—
MW-3	12/08/09	136.35	5.92	130.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-4	09/11/09	133.59	6.52	127.07	1,100	<5.0	<5.0	<5.0	<5.0	11	<5.0	13,000	<10	<10	<10	—
MW-4	12/08/09	133.59	5.28	128.31	780	<1.0	<1.0	<1.0	1.5	2.7	<5.0	1,200	<2.0	<2.0	<2.0	—
MW-5	09/11/09	133.58	8.51	125.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	12/08/09	133.58	7.09	126.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	09/11/09	128.83	6.47	122.36	<50	<0.50	<0.50	<0.50	<0.50	43	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	12/08/09	128.83	6.23	122.60	<50	<0.50	<0.50	<0.50	<0.50	29	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	09/11/09	134.37	9.60	124.77	<50	<0.50	<0.50	<0.50	<0.50	17	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	12/08/09	134.37	9.24	125.13	<50	<0.50	<0.50	<0.50	<0.50	15	<5.0	<10	<1.0	<1.0	<1.0	—

NOTES: ft-MSL = feet above mean sea level
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 TPH-G = total petroleum hydrocarbons as gasoline
 DO = dissolved oxygen
 < = not detected at or above the stated detection limit

MTBE = methyl tert butyl ether
 TBA = tertiary butyl alcohol
 DIPE = di-isopropyl ether
 ETBE = ethyl tertiary butyl ether
 TAME = tertiary amyl methyl ether

APPENDIX

**GENERAL FIELD PROCEDURES, FIELD MEASUREMENT FORMS, OFFICIAL
LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS**

GENERAL FIELD PROCEDURES

General field procedures used during fluid-level monitoring and groundwater sampling activities are described below.

FLUID-LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city benchmark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4 C prior to analysis by a state-certified laboratory.



GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Waters

Site: Quick Stop 56

Project No.: 166562

Date: 12/08/09

Well No. MW-2

Purge Method: Sub

Depth to Water (feet): 5.48

Depth to Product (feet):

Total Depth (feet) 29.92

LPH & Water Recovered (gallons):

Water Column (feet): 24.44

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.37

1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0925			5	1167	17.2	6.34			
			10	1172	19.3	6.25			
	0934		15	1195	20.0	6.14			
Static at Time Sampled			Total Gallons Purged			Sample Time			
5.84			15			0926			
Comments:									

Well No. MW-3

Purge Method: Sub

Depth to Water (feet): 5.92

Depth to Product (feet):

Total Depth (feet) 30.39

LPH & Water Recovered (gallons):

Water Column (feet): 24.47

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.81

1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0953			5	727.4	15.9	6.49			
			10	999.6	19.7	6.33			
	0954		15	1013	20.4	6.35			
Static at Time Sampled			Total Gallons Purged			Sample Time			
6.22			15			0950 0940			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Valdes

Site: Quick Stop 56

Project No.: 166562

Date: 12/08/09

Well No. MW-5

Purge Method: HB

Depth to Water (feet): 7.09

Depth to Product (feet): —

Total Depth (feet): 10.27

LPH & Water Recovered (gallons): —

Water Column (feet): 3.13

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 7.72

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
<u>0806</u>			1	381.3	17.9	6.54			
			2	377.5	18.6	6.33			
	<u>0812</u>		3	378.5	19.8	6.11			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>7.15</u>			<u>3</u>			<u>1000</u>			
Comments:									

Well No. MW-6

Purge Method: Sub

Depth to Water (feet): 6.23

Depth to Product (feet): —

Total Depth (feet): 19.69

LPH & Water Recovered (gallons): —

Water Column (feet): 13.46

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.92

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
<u>0825</u>			3	1003	15.9	6.13			
			6	1039	17.0	6.06			
	<u>0830</u>		9	1044	16.4	6.15			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>6.41</u>			<u>9</u>			<u>1015</u>			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidars

Site: Quick Stop 56

Project No.: 166562

Date: 12/08/09

Well No. MW-1

Purge Method: Sub

Depth to Water (feet): 11.86

Depth to Product (feet):

Total Depth (feet) 30.06

LPH & Water Recovered (gallons):

Water Column (feet): 18.20

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 15.50

1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0842			4	417.1	18.2	6.23			
			8	426.2	20.2	6.83			
	0847		12	1012	20.4	5.97			
Static at Time Sampled			Total Gallons Purged			Sample Time			
13.77			12			1036			
Comments:									

Well No. MW-7

Purge Method: HB

Depth to Water (feet): 9.24

Depth to Product (feet):

Total Depth (feet) 24.58

LPH & Water Recovered (gallons):

Water Column (feet): 15.34

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.31

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0854			3	1561	19.1	6.42			
			6	1783	19.2	6.18			
	0912		9	1808	19.9	6.18			
Static at Time Sampled			Total Gallons Purged			Sample Time			
10.09			9			1040			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidaris

Site: Quick Stop 56

Project No.: 166562

Date: 12/08/09

Well No. MW-4

Purge Method: HB

Depth to Water (feet): 5.28

Depth to Product (feet):

Total Depth (feet): 14.74

LPH & Water Recovered (gallons):

Water Column (feet): 4.46

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 7.17

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
<u>1055</u>			<u>2</u>	<u>753.4</u>	<u>19.1</u>	<u>7.03</u>			
			<u>4</u>	<u>758.3</u>	<u>19.6</u>	<u>6.84</u>			
	<u>1104</u>		<u>6</u>	<u>757.1</u>	<u>20.3</u>	<u>6.65</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>6.09</u>			<u>6</u>			<u>1112</u>			
Comments:									

Well No. _____

Purge Method: _____

Depth to Water (feet): _____

Depth to Product (feet): _____

Total Depth (feet) _____

LPH & Water Recovered (gallons): _____

Water Column (feet): _____

Casing Diameter (Inches): _____

80% Recharge Depth(feet): _____

1 Well Volume (gallons): _____

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
Static at Time Sampled			Total Gallons Purged			Sample Time			
Comments:									

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM
07-Dec-09

Site ID: Quik Stop 56
Address: 3132 Beaumont Avenue
City: Oakland
Cross Street: East 31st Street and 14th Avenue

Project No.: 166562.0000.0000/00TA04
Client: Jonathan Scheiner
Contact #: 925-688-1200
PM:
PM Contact #:

Total number of wells: 7 Min. Well Diameter (in.): # of Techs, # of Hrs: 1, 8
Depth to Water (ft.): 5 Max. Well Diameter (in.): 2 Travel Time (hrs):
Max. Well Depth (ft): 30

ACTIVITIES:	Frequency	Notes
Gauging: <input checked="" type="checkbox"/>	Quarterly	
Purge/Sampling: <input checked="" type="checkbox"/>	Quarterly	
No Purge/Sample <input type="checkbox"/>		

RELATED ACTIVITIES	Note
Drums: <input checked="" type="checkbox"/>	Leave drums behind bldg.
Other Activities: <input type="checkbox"/>	
Traffic Control: <input checked="" type="checkbox"/>	Permit Needed

PERMIT INFORMATION:

Per event.

NOTIFICATIONS:

Call Archie Dupre 2X (1 week prior and 2 days prior) for access to the Beaumont Apts (MW-7).
Cell: 510-306-5058 - primary number
Ph: 510-839-5802

SITE INFORMATION:

Arrive on site and park in space near MW-2 not blocking driveway or pumps. Open all well caps and allow water levels to stabilize for 15 minutes (from the opening of the last well) before gauging.

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM
07-Dec-09

Site ID: Quik Stop 56
Address 3132 Beaumont Avenue
City: Oakland
Cross Street: East 31st Street and 14th Avenue

Project No.: 166562.0000.0000/00TA04
Client: Jonathan Scheiner
Contact #: 925-688-1200
PM:
PM Contact #:

LAB INFORMATION:

Global ID:
Lab WO: 17709

Lab Used: Alpha Analytical

Lab Notes: Lab analyses:
TPH-g by 8260B, BTEX/MTBE/5 OXYs by 8260B, Ethanol by 8260B[Containers: 6 voas w/HCl]



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

TRC-Alton Geoscience
1590 Solano Way Suite A
Concord, CA 94520

Attn: James Chidester
Phone: (925) 688-2485
Fax: (925) 688-0388
Date Received : 12/17/09

Job: 166562/TA04

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-2 Lab ID : TRC09121755-01A Ethanol Date Sampled 12/08/09 09:26	ND	5.0 µg/L	12/17/09 10:28	12/17/09
Client ID: MW-3 Lab ID : TRC09121755-02A Ethanol Date Sampled 12/08/09 09:40	ND	5.0 µg/L	12/17/09 10:28	12/17/09
Client ID: MW-5 Lab ID : TRC09121755-03A Ethanol Date Sampled 12/08/09 10:00	ND	5.0 µg/L	12/17/09 10:28	12/17/09
Client ID: MW-6 Lab ID : TRC09121755-04A Ethanol Date Sampled 12/08/09 10:15	ND	5.0 µg/L	12/17/09 10:28	12/17/09
Client ID: MW-4 Lab ID : TRC09121755-05A Ethanol Date Sampled 12/08/09 11:12	ND	5.0 µg/L	12/17/09 10:28	12/17/09
Client ID: MW-1 Lab ID : TRC09121755-06A Ethanol Date Sampled 12/08/09 10:30	ND	5.0 µg/L	12/17/09 10:28	12/17/09
Client ID: MW-7 Lab ID : TRC09121755-07A Ethanol Date Sampled 12/08/09 10:40	ND	5.0 µg/L	12/17/09 10:28	12/17/09

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

AS
1/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

TRC-Alton Geoscience
1590 Solano Way Suite A
Concord, CA 94520

Attn: James Chidester
Phone: (925) 688-2485
Fax: (925) 688-0388
Date Received : 12/17/09

Job: 166562/TA04

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	MW-2					
Lab ID :	TRC09121755-01A	TPH-P (GRO)	ND	0.050 mg/L	12/21/09	12/21/09
Date Sampled	12/08/09 09:26	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/21/09	12/21/09
		Methyl tert-butyl ether (MTBE)	1.5	0.50 µg/L	12/21/09	12/21/09
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/21/09	12/21/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/21/09	12/21/09
		Benzene	ND	0.50 µg/L	12/21/09	12/21/09
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/21/09	12/21/09
		Toluene	ND	0.50 µg/L	12/21/09	12/21/09
		Ethylbenzene	ND	0.50 µg/L	12/21/09	12/21/09
		Xylenes, Total	ND	0.50 µg/L	12/21/09	12/21/09
Client ID :	MW-3					
Lab ID :	TRC09121755-02A	TPH-P (GRO)	ND	0.050 mg/L	12/18/09	12/18/09
Date Sampled	12/08/09 09:40	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/18/09	12/18/09
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/18/09	12/18/09
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/18/09	12/18/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/18/09	12/18/09
		Benzene	ND	0.50 µg/L	12/18/09	12/18/09
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/18/09	12/18/09
		Toluene	ND	0.50 µg/L	12/18/09	12/18/09
		Ethylbenzene	ND	0.50 µg/L	12/18/09	12/18/09
		Xylenes, Total	ND	0.50 µg/L	12/18/09	12/18/09
Client ID :	MW-5					
Lab ID :	TRC09121755-03A	TPH-P (GRO)	ND	0.050 mg/L	12/18/09	12/18/09
Date Sampled	12/08/09 10:00	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/18/09	12/18/09
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/18/09	12/18/09
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/18/09	12/18/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/18/09	12/18/09
		Benzene	ND	0.50 µg/L	12/18/09	12/18/09
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/18/09	12/18/09
		Toluene	ND	0.50 µg/L	12/18/09	12/18/09
		Ethylbenzene	ND	0.50 µg/L	12/18/09	12/18/09
		Xylenes, Total	ND	0.50 µg/L	12/18/09	12/18/09



Alpha Analytical, Inc.

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Client ID :	MW-6						
Lab ID :	TRC09121755-04A	TPH-P (GRO)	ND		0.050 mg/L	12/18/09	12/18/09
Date Sampled	12/08/09 10:15	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	12/18/09	12/18/09
		Methyl tert-butyl ether (MTBE)	29		0.50 µg/L	12/18/09	12/18/09
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	12/18/09	12/18/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	12/18/09	12/18/09
		Benzene	ND		0.50 µg/L	12/18/09	12/18/09
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	12/18/09	12/18/09
		Toluene	ND		0.50 µg/L	12/18/09	12/18/09
		Ethylbenzene	ND		0.50 µg/L	12/18/09	12/18/09
		Xylenes, Total	ND		0.50 µg/L	12/18/09	12/18/09
Client ID :	MW-4						
Lab ID :	TRC09121755-05A	TPH-P (GRO)	0.78		0.20 mg/L	12/18/09	12/18/09
Date Sampled	12/08/09 11:12	Tertiary Butyl Alcohol (TBA)	1,200		20 µg/L	12/18/09	12/18/09
		Methyl tert-butyl ether (MTBE)	2.7		1.0 µg/L	12/18/09	12/18/09
		Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	12/18/09	12/18/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	12/18/09	12/18/09
		Benzene	ND	V	1.0 µg/L	12/18/09	12/18/09
		Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	12/18/09	12/18/09
		Toluene	ND	V	1.0 µg/L	12/18/09	12/18/09
		Ethylbenzene	ND	V	1.0 µg/L	12/18/09	12/18/09
		Xylenes, Total	1.5		1.0 µg/L	12/18/09	12/18/09
Client ID :	MW-1						
Lab ID :	TRC09121755-06A	TPH-P (GRO)	0.71		0.50 mg/L	12/18/09	12/18/09
Date Sampled	12/08/09 10:30	Tertiary Butyl Alcohol (TBA)	9,900		50 µg/L	12/18/09	12/18/09
		Methyl tert-butyl ether (MTBE)	1,300		2.5 µg/L	12/18/09	12/18/09
		Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	12/18/09	12/18/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	12/18/09	12/18/09
		Benzene	ND	V	2.5 µg/L	12/18/09	12/18/09
		Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	12/18/09	12/18/09
		Toluene	ND	V	2.5 µg/L	12/18/09	12/18/09
		Ethylbenzene	ND	V	2.5 µg/L	12/18/09	12/18/09
		Xylenes, Total	ND	V	2.5 µg/L	12/18/09	12/18/09
Client ID :	MW-7						
Lab ID :	TRC09121755-07A	TPH-P (GRO)	ND		0.050 mg/L	12/18/09	12/18/09
Date Sampled	12/08/09 10:40	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	12/18/09	12/18/09
		Methyl tert-butyl ether (MTBE)	15		0.50 µg/L	12/18/09	12/18/09
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	12/18/09	12/18/09
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	12/18/09	12/18/09
		Benzene	ND		0.50 µg/L	12/18/09	12/18/09
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	12/18/09	12/18/09
		Toluene	ND		0.50 µg/L	12/18/09	12/18/09
		Ethylbenzene	ND		0.50 µg/L	12/18/09	12/18/09
		Xylenes, Total	ND		0.50 µg/L	12/18/09	12/18/09



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Gasoline Range Organics (GRO) C4-C13

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

PS

1/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: TRC09121755

Job: 166562/TA04

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09121755-01A	MW-2	Aqueous	2
09121755-02A	MW-3	Aqueous	2
09121755-03A	MW-5	Aqueous	2
09121755-04A	MW-6	Aqueous	2
09121755-05A	MW-4	Aqueous	2
09121755-06A	MW-1	Aqueous	2
09121755-07A	MW-7	Aqueous	2

1/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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Date:
30-Dec-09

QC Summary Report

Work Order:
09121755

Method Blank

Method Blank		Type	Test Code: EPA Method SW8260B-DI							
File ID: C:\HPCHEM\MS11\DATA\091217\09121709.D		MBLK	Batch ID: 23256		Analysis Date: 12/17/2009 14:20					
Sample ID: MBLK-23256	Units: µg/L		Run ID: MSD_11_091217A		Prep Date: 12/17/2009 10:28					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	ND	5								
Surr: Hexafluoro-2-propanol	560		500		112	70	130			

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8260B-DI							
File ID: C:\HPCHEM\MS11\DATA\091217\09121705.D		LCS	Batch ID: 23256		Analysis Date: 12/17/2009 12:15					
Sample ID: LCS-23256	Units: µg/L		Run ID: MSD_11_091217A		Prep Date: 12/17/2009 10:28					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	256	5	250		103	70	142			
Surr: Hexafluoro-2-propanol	535		500		107	70	130			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8260B-DI							
File ID: C:\HPCHEM\MS11\DATA\091217\09121707.D		MS	Batch ID: 23256		Analysis Date: 12/17/2009 13:40					
Sample ID: 09121655-02AMS	Units: µg/L		Run ID: MSD_11_091217A		Prep Date: 12/17/2009 10:28					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	260	5	250	0	104	68	143			
Surr: Hexafluoro-2-propanol	506		500		101	70	130			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8260B-DI							
File ID: C:\HPCHEM\MS11\DATA\091217\09121708.D		MSD	Batch ID: 23256		Analysis Date: 12/17/2009 13:59					
Sample ID: 09121655-02AMSD	Units: µg/L		Run ID: MSD_11_091217A		Prep Date: 12/17/2009 10:28					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	273	5	250	0	109	68	143	259.8	4.8(20)	
Surr: Hexafluoro-2-propanol	525		500		105	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
30-Dec-09

QC Summary Report

Work Order:
09121755

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: **09121804.D**

Batch ID: **MS12W1218B**

Analysis Date: **12/18/2009 10:18**

Sample ID: **MBLK MS12W1218B**

Units : **mg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 10:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00988		0.01		99	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00836		0.01		84	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: **09121802.D**

Batch ID: **MS12W1218B**

Analysis Date: **12/18/2009 09:32**

Sample ID: **GLCS MS12W1218B**

Units : **mg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 09:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.4	0.05	0.4		99.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.00962		0.01		96	70	130			
Surr: Toluene-d8	0.00993		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00908		0.01		91	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: **09121811.D**

Batch ID: **MS12W1218B**

Analysis Date: **12/18/2009 12:59**

Sample ID: **09121528-05AGS**

Units : **mg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 12:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.82	0.25	2	0	91	58	135			
Surr: 1,2-Dichloroethane-d4	0.0482		0.05		96	70	130			
Surr: Toluene-d8	0.049		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0434		0.05		87	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: **09121812.D**

Batch ID: **MS12W1218B**

Analysis Date: **12/18/2009 13:22**

Sample ID: **09121528-05AGSD**

Units : **mg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 13:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.8	0.25	2	0	90	58	135	1.822	1.1(20)	
Surr: 1,2-Dichloroethane-d4	0.0462		0.05		92	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0428		0.05		86	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
30-Dec-09

QC Summary Report

Work Order:
09121755

Method Blank

File ID: 09121804.D

Type **MBLK** Test Code: **EPA Method SW8260B**

Batch ID: **MS12W1218A**

Analysis Date: **12/18/2009 10:18**

Sample ID: **MBLK MS12W1218A**

Units : **µg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 10:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.88		10		99	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	8.36		10		84	70	130			

Laboratory Control Spike

File ID: 09121803.D

Type **LCS** Test Code: **EPA Method SW8260B**

Batch ID: **MS12W1218A**

Analysis Date: **12/18/2009 09:55**

Sample ID: **LCS MS12W1218A**

Units : **µg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 09:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.63	0.5	10		96	62	136			
Benzene	9.77	0.5	10		98	70	130			
Toluene	10.1	0.5	10		101	80	120			
Ethylbenzene	11.5	0.5	10		115	80	120			
Xylenes, Total	23.4	0.5	20		117	70	130			
Surr: 1,2-Dichloroethane-d4	9.73		10		97	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	8.64		10		86	70	130			

Sample Matrix Spike

File ID: 09121809.D

Type **MS** Test Code: **EPA Method SW8260B**

Batch ID: **MS12W1218A**

Analysis Date: **12/18/2009 12:13**

Sample ID: **09121528-05AMS**

Units : **µg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	52.7	1.3	50	2.31	101	56	141			
Benzene	47	1.3	50	0	94	67	130			
Toluene	46.3	1.3	50	0	93	66	130			
Ethylbenzene	52.7	1.3	50	0	105	68	130			
Xylenes, Total	108	1.3	100	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	51		50		102	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	42.1		50		84	70	130			

Sample Matrix Spike Duplicate

File ID: 09121810.D

Type **MSD** Test Code: **EPA Method SW8260B**

Batch ID: **MS12W1218A**

Analysis Date: **12/18/2009 12:36**

Sample ID: **09121528-05AMSD**

Units : **µg/L**

Run ID: **MSD_12_091218A**

Prep Date: **12/18/2009 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	55.2	1.3	50	2.31	106	56	141	52.67	4.6(20)	
Benzene	47.9	1.3	50	0	96	67	130	46.96	2.0(20)	
Toluene	48.1	1.3	50	0	96	66	130	46.26	3.9(20)	
Ethylbenzene	54.7	1.3	50	0	109	68	130	52.67	3.8(20)	
Xylenes, Total	112	1.3	100	0	112	70	130	107.9	4.1(20)	
Surr: 1,2-Dichloroethane-d4	50		50		100	70	130			
Surr: Toluene-d8	50		50		100	70	130			
Surr: 4-Bromofluorobenzene	42.1		50		84	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

TRC SOLUTIONS
 TECHNICAL SERVICES REQUEST FORM
 07-Dec-09

Site ID: Quik Stop 56
 Address 3132 Beaumont Avenue
 City: Oakland
 Cross Street: East 31st Street and 14th Aven

Well IDs	Benz.	MTBE	Gauging				Sampling				Field Measurements			Comments
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	
MW-7			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-6			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-5			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-4			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-3			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-2			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-1			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

CHAIN-OF-CUSTODY RECORD

KMEP

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : TRC09121755

Report Due By : 5:00 PM On : 02-Jan-10

Client:
 TRC-Alton Geoscience
 1590 Solano Way Suite A

Report Attention	Phone Number	EEmail Address
James Chidester	(925) 688-2485 x 238	jchidester@trcsolutions.com

EDD Required : Yes

Concord, CA 94520

Sampled by : Andrew Vidners

PO :
 Client's COC # : none Job : 166562/TA04

Cooler Temp	Samples Received	Date Printed
4 °C	17-Dec-09	17-Dec-09

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	ALCOHOL_W	TPH/P_W	VOC_W							
TRC09121755-01A	MW-2	AQ	12/08/09 09:26	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							
TRC09121755-02A	MW-3	AQ	12/08/09 09:40	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							
TRC09121755-03A	MW-5	AQ	12/08/09 10:00	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							
TRC09121755-04A	MW-6	AQ	12/08/09 10:15	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							
TRC09121755-05A	MW-4	AQ	12/08/09 11:12	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							
TRC09121755-06A	MW-1	AQ	12/08/09 10:30	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							
TRC09121755-07A	MW-7	AQ	12/08/09 10:40	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C							

Comments: Security seals intact. Frozen ice. Total Xylenes. Site @ Quik Stop #56 Oakland, CA. Samples expire 12/22/09, there was miscommunication between TRC and Sac office as to when to pick up samples, therefore do not charge for rush : extraction.

Signature	Print Name	Company	Date/Time
	Jane Johnson	Alpha Analytical, Inc.	12/17/09 1232

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

