

Quik Stop Markets, Inc.

4567 Enterprise Street • Fremont, CA 94538 • (510) 657-8500 • Fax: (510) 657-1544

RECEIVED

4:16 pm, Feb 01, 2011

Alameda County
Environmental Health

January 27, 2011

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

Reference: Quik Stop Market #56
3132 Beaumont Avenue
Oakland, CA 94602

Subject: Quarterly Groundwater Monitoring Report – Fourth Quarter 2010

Dear Mr. Plunkett:

I have reviewed and approved the subject report. I declare, under penalty of perjury, that the information and/or recommendations contained in the report are true and correct to the best of my knowledge.

Sincerely,
QUIK STOP MARKETS, INC.



Mike Karvelot
Director of Environmental Affairs



1590 Solano Way
#A
Concord, CA 94520

925.688.1200 PHONE
925.688.0388 FAX

www.TRCSolutions.com

January 28, 2011

Project No. 174867

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: GROUNDWATER MONITORING REPORT
FOURTH QUARTER 2010

Dear Mr. Plunkett:

Enclosed is a copy of the *Fourth Quarter 2010 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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Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538

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

RE: GROUNDWATER MONITORING REPORT
FOURTH QUARTER 2010

Dear Mr. Karvelot:

This *Fourth Quarter 2010 Groundwater Monitoring Report* presents the results of the Fourth Quarter 2010 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 3, 2010. 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 122.94 feet above mean sea level (MSL) in MW-6 at the south end of the study area to 131.28 feet above MSL in MW-3 in the north, with an average elevation of 127.16 feet above MSL. Groundwater flow direction was predominantly to the southwest at a gradient of 0.078 feet per foot in the northern portion of the study area, and approximately 0.025 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 2010

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

January 28, 2011

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 3, 2010, 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 110 gallons of purge water and equipment rinsate were generated during groundwater sampling activities conducted on December 3, 2010. 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 2010 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 [$\mu\text{g/L}$]) to 510 $\mu\text{g/L}$ (MW-4). MTBE concentrations ranged from non-detect (<0.50 $\mu\text{g/L}$) to 740 $\mu\text{g/L}$ (MW-1), and TBA concentrations ranged from non-detect (<10 $\mu\text{g/L}$) to 1,900 $\mu\text{g/L}$ (MW-1) during this sampling event. No other analytes were detected above their respective reporting limits.

2.3 Discussion

The Fourth Quarter 2010 monitoring event represents the sixth monitoring with the expanded well network (i.e., including offsite wells MW-4 through MW-7), and is also the sixth 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 2010 monitoring event.

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



QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2010

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

January 28, 2011

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.

Overall diminishing trends are apparent for TPH-G in wells where detectable levels have been reported (i.e., downgradient, near Site wells MW-1, MW-4). Similarly diminishing trends are apparent for MTBE (e.g., in MW-1, where highest detections have historically been reported), and for TBA (in MW-1).

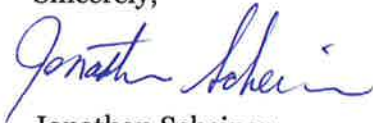
The spatial pattern of MTBE in groundwater has not been defined, but will be the subject of ongoing investigation as part of the required Site Conceptual Model currently being developed per ACDEH request.

3.0 LIST OF ATTACHMENTS


- Figure 1: Vicinity Map
- Figure 2: Groundwater Elevation Contour Map, December 3, 2010
- Figure 3: Dissolved-Phase Constituent Concentrations, December 3, 2010
- 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,



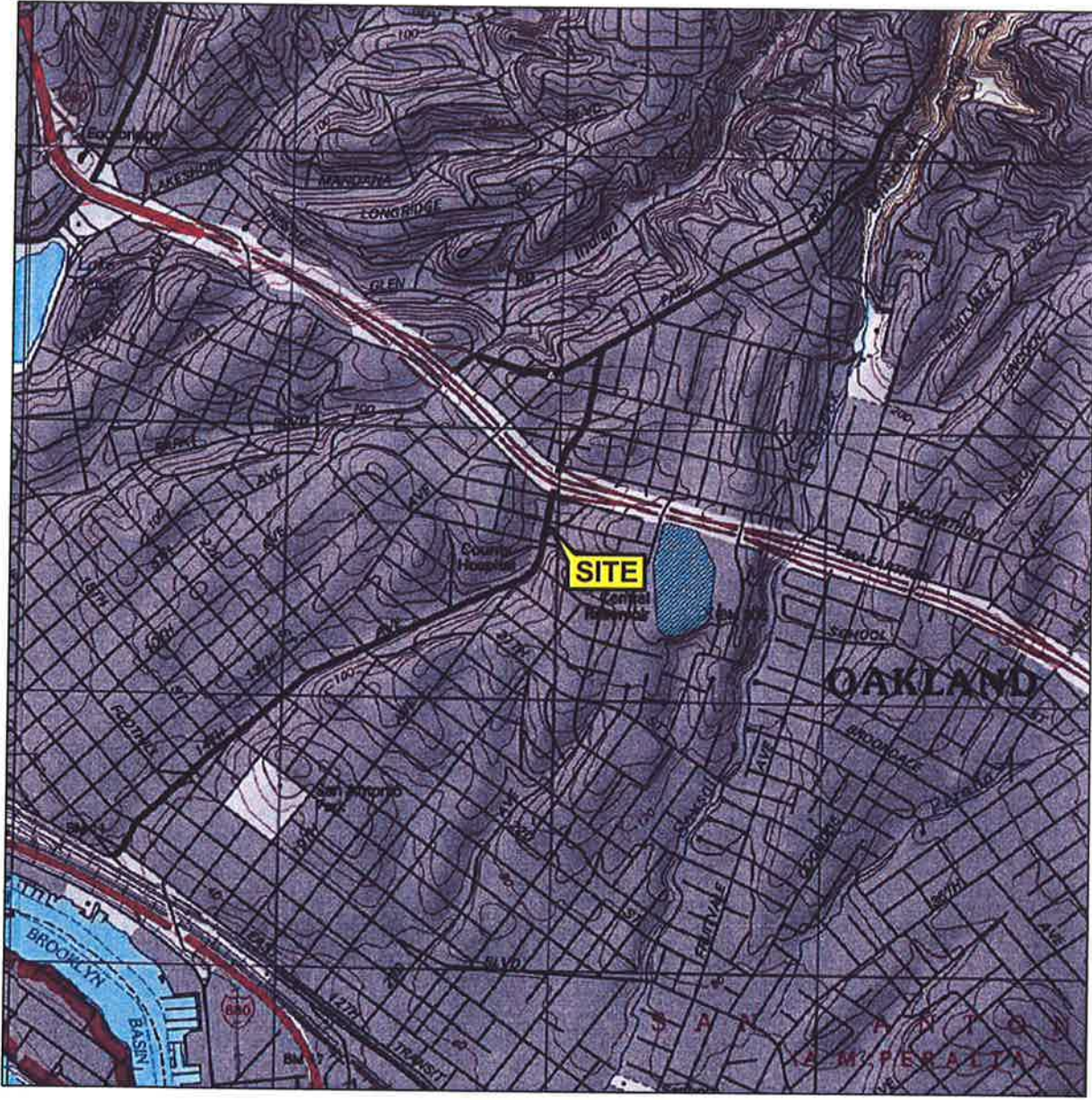
Jonathan Scheiner
Project Manager



Keith Woodburne, P.G.
Senior Project Geologist



FIGURES



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



SCALE 1 : 24,000

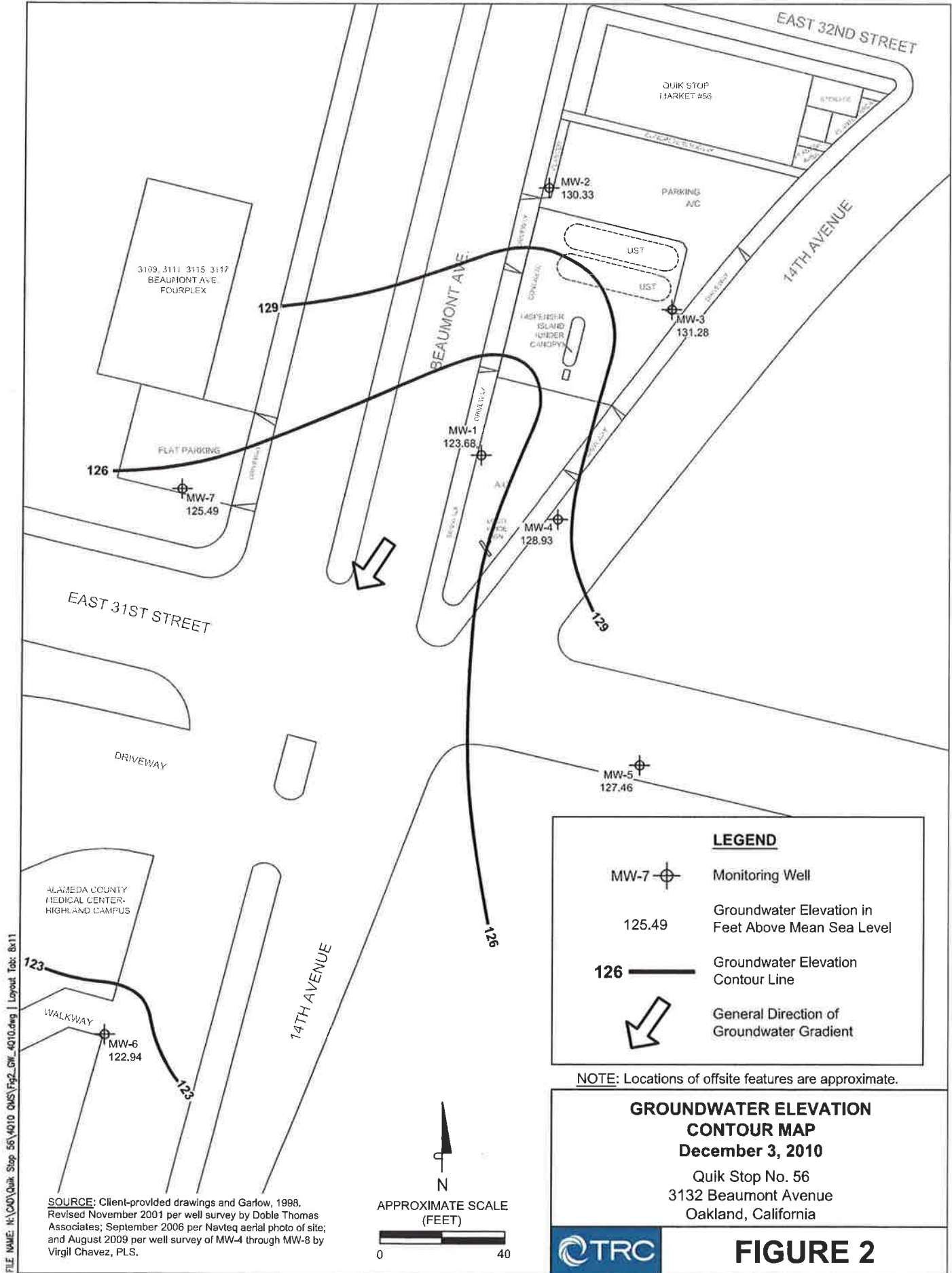


SOURCE:
 United States Geological Survey
 7.5 Minute Topographic Maps:
 Oakland East and
 Oakland West Quadrangles

VICINITY MAP
 Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California

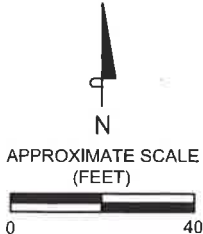


FIGURE 1






FILE NAME: N:\CAD\Quik Stop 56\4010 OMS\Fig_4010.dwg | Layout Tab: Bx11

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
- 125.49 Groundwater Elevation in Feet Above Mean Sea Level
- 126  Groundwater Elevation Contour Line
-  General Direction of Groundwater Gradient

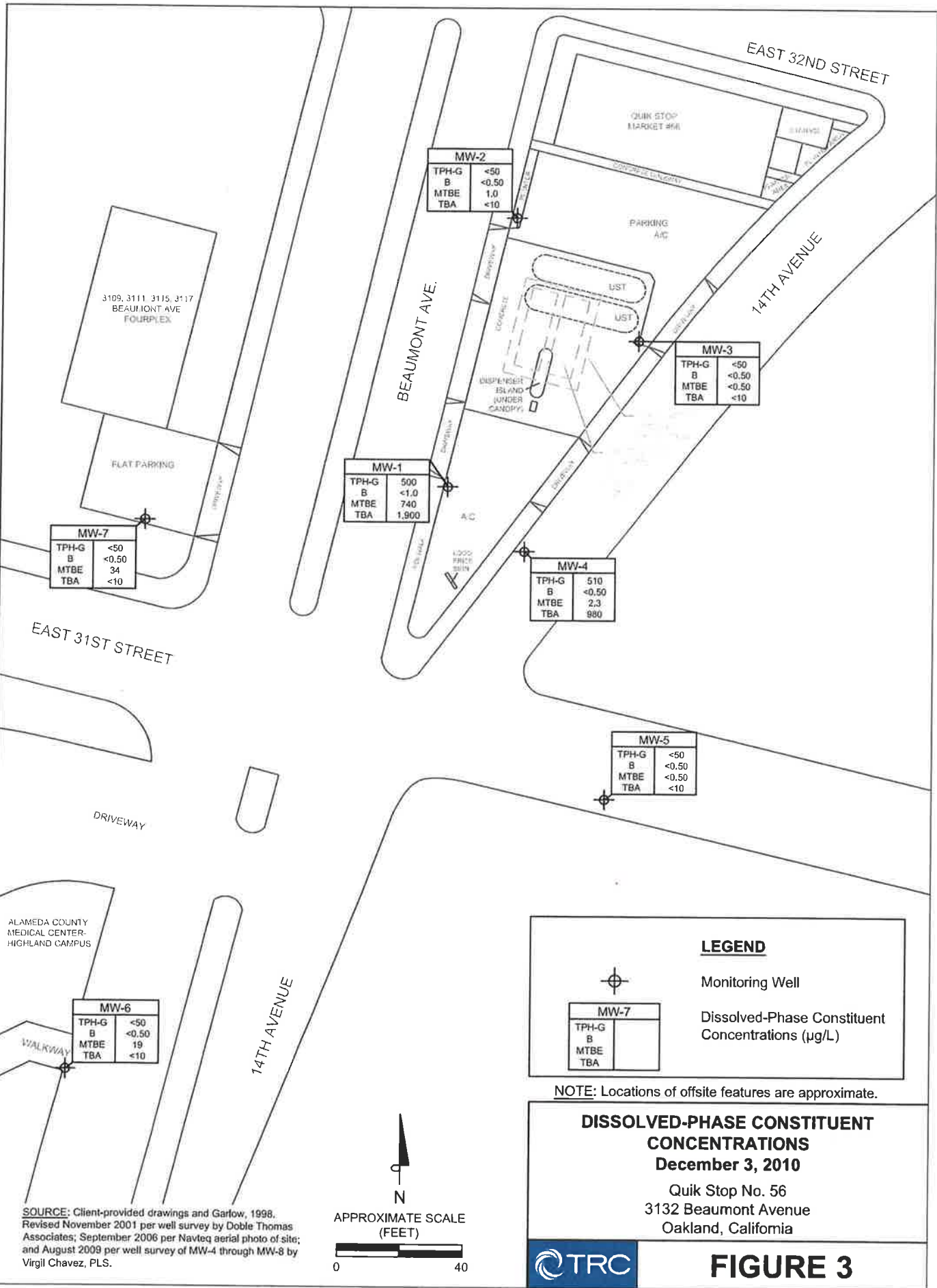
NOTE: Locations of offsite features are approximate.

GROUNDWATER ELEVATION CONTOUR MAP
December 3, 2010
 Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California



FIGURE 2

FILE NAME: N:\DMS\Quik Stop 56\4010 QMS\Fig3_Diss-Constituents_4010.dwg | Layout Tab: 8x11



MW-7

TPH-G	<50
B	<0.50
MTBE	34
TBA	<10

MW-1

TPH-G	500
B	<1.0
MTBE	740
TBA	1,900

MW-2

TPH-G	<50
B	<0.50
MTBE	1.0
TBA	<10

MW-3

TPH-G	<50
B	<0.50
MTBE	<0.50
TBA	<10

MW-4

TPH-G	510
B	<0.50
MTBE	2.3
TBA	980

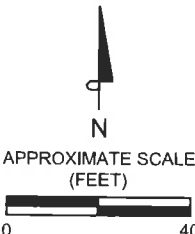
MW-5

TPH-G	<50
B	<0.50
MTBE	<0.50
TBA	<10

MW-6

TPH-G	<50
B	<0.50
MTBE	19
TBA	<10

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.



TABLE

Table 1
Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing	Depth to	Groundwater	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)	
		Elevation (ft-MSL)	Water (feet)	Elevation (feet)													
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-1	03/19/10	134.13	10.09	124.04	1,100	<2.5	<2.5	<2.5	<2.5	1,000	<5.0	5,300	<5.0	<5.0	<5.0	—	
MW-1	06/08/10	134.13	9.67	124.46	<300	<1.5	<1.5	<1.5	<1.5	500	<5.0	3,500	<3.0	<3.0	<3.0	—	
MW-1	09/14/10	134.13	10.48	123.65	320	<1.0	<1.0	<1.0	<1.0	470	<5.0	2,500	<2.0	<2.0	<2.0	—	
MW-1	12/03/10	134.13	10.45	123.68	500	<1.0	<1.0	<1.0	<1.0	740	<5.0	1,900	<2.0	<2.0	<2.0	—	
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	

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

Sample ID	Date	Top of Casing	Depth to	Groundwater	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)	
		Elevation (ft-MSL)	Water (feet)	Elevation (feet)													
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	—	—	—	—	—	—	
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-2	03/19/10	135.16	4.47	130.69	<50	<0.50	<0.50	<0.50	<0.50	1.0	<5.0	<10	<1.0	<1.0	<1.0	—	
MW-2	06/08/10	135.16	4.73	130.43	<50	<0.50	<0.50	<0.50	<0.50	1.0	<5.0	<10	<1.0	<1.0	<1.0	—	
MW-2	09/14/10	135.16	5.47	129.69	<50	<0.50	<0.50	<0.50	<0.50	1.2	<5.0	<10	<1.0	<1.0	<1.0	—	
MW-2	12/03/10	135.16	4.83	130.33	<50	<0.50	<0.50	<0.50	<0.50	1.0	<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	

Table 1
Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of	Depth to	Groundwater		TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8260	Ethanol	TBA	DIPE	ETBE	TAME	DO	
		Elevation (ft-MSL)		Water (feet)	Elevation (feet)													
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	—	—	—	—	—	—	—	
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	<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	<1.0	—	
MW-3	03/19/10	136.35	4.30	132.05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	<1.0	—	
MW-3	06/08/10	136.35	5.04	131.31	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	<1.0	—	
MW-3	09/14/10	136.35	6.13	130.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	<1.0	—	
MW-3	12/03/10	136.35	5.07	131.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<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	<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	<2.0	—	
MW-4	03/19/10	133.59	4.22	129.37	680	<0.50	<0.50	<0.50	0.97	2.5	<5.0	550	<1.0	<1.0	<1.0	<1.0	—	
MW-4	06/08/10	133.59	4.44	129.15	370	<0.50	<0.50	<0.50	0.68	2.0	<5.0	450	<1.0	<1.0	<1.0	<1.0	—	
MW-4	09/14/10	133.59	5.88	127.71	520	<1.0	<1.0	<1.0	<1.0	6.3	<5.0	2,900	<2.0	<2.0	<2.0	<2.0	—	
MW-4	12/03/10	133.59	4.66	128.93	510	<0.50	<0.50	<0.50	0.86	2.3	<5.0	980	<1.0	<1.0	<1.0	<1.0	—	

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-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-5	03/19/10	133.58	5.23	128.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	06/08/10	133.58	5.97	127.61	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	09/14/10	133.58	7.62	125.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	12/03/10	133.58	6.12	127.46	<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-6	03/19/10	128.83	5.53	123.30	<50	<0.50	<0.50	<0.50	<0.50	23	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	06/08/10	128.83	5.78	123.05	<50	<0.50	<0.50	<0.50	<0.50	24	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	09/14/10	128.83	6.27	122.56	<50	<0.50	<0.50	<0.50	<0.50	26	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	12/03/10	128.83	5.89	122.94	<50	<0.50	<0.50	<0.50	<0.50	19	<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	—
MW-7	03/19/10	134.37	8.42	125.95	<50	<0.50	<0.50	<0.50	<0.50	18	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	06/08/10	134.37	8.68	125.69	<50	<0.50	<0.50	<0.50	<0.50	22	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	09/14/10	134.37	9.39	124.98	<50	<0.50	<0.50	<0.50	<0.50	35	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	12/03/10	134.37	8.88	125.49	<50	<0.50	<0.50	<0.50	<0.50	34	<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.

FIELD MONITORING DATA SHEET

Technician: JOE

Job #/Task #: 174867/TA01

Date: 12/03/10

Site # QUIK STOP 56

Project Manager J. J. Scheiner

Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-2	X	0610	29.86	4.83	—	—	1031	2"
MW-3	X	0613	30.25	5.07	—	—	1040	2"
MW-1	X	0617	30.01	10.45	—	—	0956	2"
MW-6	X	0622	19.66	5.89	—	—	1051	2"
MW-5	X	0627	10.18	6.12	—	—	1013	2"
MW-4	X	0630	14.72	4.66	—	—	1003	2"
MW-7	X	0634	24.78	8.88	—	—	1022	2"

FIELD DATA COMPLETE	QA/QC	COC	WELL BOX CONDITION SHEETS
MANIFEST	DRUM INVENTORY	TRAFFIC CONTROL	



GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: QUICK STOP 56

Project No.: 174867

Date: 12/03/10

Well No. MW-2

Purge Method: SUB

Depth to Water (feet): 4.83

Depth to Product (feet):

Total Depth (feet) 29.86

LPH & Water Recovered (gallons):

Water Column (feet): 25.03

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 9.83

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									
0835			5	1201	18.0	7.03			
			10	1224	19.4	6.67			
	0840		15	1283	19.8	6.62			
Static at Time Sampled			Total Gallons Purged			Sample Time			
5.25			15			1031			
Comments:									

Well No. MW-3

Purge Method: SUB

Depth to Water (feet): 5.07

Depth to Product (feet):

Total Depth (feet) 30.25

LPH & Water Recovered (gallons):

Water Column (feet): 25.18

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.10

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									
0858			5	918.9	18.6	7.22			
			10	953.6	20.1	6.88			
	0902		15	957.9	20.3	6.91			
Static at Time Sampled			Total Gallons Purged			Sample Time			
5.32			15			1040			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: Quil STOP 56

Project No.: 174867

Date: 12/03/10

Well No. MW-1

Purge Method: HB

Depth to Water (feet): 10.45

Depth to Product (feet):

Total Depth (feet) 30.01

LPH & Water Recovered (gallons):

Water Column (feet): 19.56

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 14.36

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									
<u>0716</u>			<u>4</u>	<u>978.3</u>	<u>20.1</u>	<u>7.18</u>			
			<u>8</u>	<u>961.0</u>	<u>19.5</u>	<u>7.02</u>			
	<u>0735</u>		<u>12</u>	<u>993.1</u>	<u>19.0</u>	<u>6.91</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>12.35</u>			<u>12</u>			<u>0956</u>			
Comments:									

Well No. MW-6

Purge Method: HB

Depth to Water (feet): 5.89

Depth to Product (feet):

Total Depth (feet) 19.66

LPH & Water Recovered (gallons):

Water Column (feet): 13.77

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.64

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>0917</u>			<u>3</u>	<u>993.0</u>	<u>18.5</u>	<u>7.20</u>			
			<u>6</u>	<u>1031</u>	<u>18.7</u>	<u>7.11</u>			
	<u>0928</u>		<u>9</u>	<u>1027</u>	<u>18.9</u>	<u>7.20</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>6.13</u>			<u>9</u>			<u>1051</u>			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: Quik Stop 56

Project No.: 174867

Date: 12/03/10

Well No. MW-5

Purge Method: HB

Depth to Water (feet): 6.12

Depth to Product (feet):

Total Depth (feet) 10.18

LPH & Water Recovered (gallons):

Water Column (feet): 4.06

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 6.93

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									
0754			1	323.9	17.5	6.96			
			2	325.4	18.1	6.51			
	0800		3	329.1	18.3	6.30			
Static at Time Sampled			Total Gallons Purged			Sample Time			
6.19			3			1013			
Comments:									

Well No. MW-4

Purge Method: HB

Depth to Water (feet): 4.66

Depth to Product (feet):

Total Depth (feet) 14.72

LPH & Water Recovered (gallons):

Water Column (feet): 10.06

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 6.67

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									
0741			2	772.5	18.5	6.88			
			4	779.0	18.7	6.81			
	0749		6	779.4	19.0	6.74			
Static at Time Sampled			Total Gallons Purged			Sample Time			
4.70			6			1003			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: QUIK STOP 56

Project No.: 174467/TA01

Date: 12/03/10

Well No. MW-7

Purge Method: HB

Depth to Water (feet): 8.88

Depth to Product (feet):

Total Depth (feet): 24.78

LPH & Water Recovered (gallons):

Water Column (feet): 15.90

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.06

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									
0806			3	1813	18.1	6.39			
			6	1848	18.6	6.57			
	0820		9	1843	18.4	6.67			
Static at Time Sampled			Total Gallons Purged			Sample Time			
6.68			9			1022			
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:									

FIELD REPORT - DRUM INVENTORY

Project Number: 174867 Date: 12/03/10

Site/Station I.D. Quik STOP 56

Address: 3132 Beaumont Ave.

Active Station? yes

Drums Needed: 2 Drums Used: 2

Drums Empty: _____ Drums Full: _____

Drums Labeled: yes Not Labeled: _____

Total Gallons for Today: 110

Field Notes: Left 2 drums on site

Drums were filled with ground water &
Decon water

Drums needed for next event: _____ Scheduled for: _____

Special Instructions: _____



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ANALYTICAL REPORT

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

Attn: Jonathan Scheiner
Phone: (925) 688-2473
Fax: (925) 688-0388
Date Received : 12/07/10

Job: Quik Stop 56

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-1 Lab ID: TRC10120747-01A Ethanol Date Sampled 12/03/10 09:56	ND	5.0 µg/L	12/07/10	12/07/10
Client ID: MW-2 Lab ID: TRC10120747-02A Ethanol Date Sampled 12/03/10 10:31	ND	5.0 µg/L	12/07/10	12/07/10
Client ID: MW-3 Lab ID: TRC10120747-03A Ethanol Date Sampled 12/03/10 10:40	ND	5.0 µg/L	12/07/10	12/07/10
Client ID: MW-4 Lab ID: TRC10120747-04A Ethanol Date Sampled 12/03/10 10:03	ND	5.0 µg/L	12/07/10	12/07/10
Client ID: MW-5 Lab ID: TRC10120747-05A Ethanol Date Sampled 12/03/10 10:13	ND	5.0 µg/L	12/07/10	12/07/10
Client ID: MW-6 Lab ID: TRC10120747-06A Ethanol Date Sampled 12/03/10 10:51	ND	5.0 µg/L	12/07/10	12/07/10
Client ID: MW-7 Lab ID: TRC10120747-07A Ethanol Date Sampled 12/03/10 10:22	ND	5.0 µg/L	12/07/10	12/07/10

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
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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.

12/17/10

Report Date



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ANALYTICAL REPORT

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

Attn: Jonathan Scheiner
Phone: (925) 688-2473
Fax: (925) 688-0388
Date Received : 12/07/10

Job: Quik Stop 56

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-1				
Lab ID :	TRC10120747-01A	TPH-P (GRO)	0.50	0.20 mg/L	12/08/10
Date Sampled	12/03/10 09:56	Tertiary Butyl Alcohol (TBA)	1,900	20 µg/L	12/08/10
		Methyl tert-butyl ether (MTBE)	740	1.0 µg/L	12/08/10
		Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	12/08/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	12/08/10
		Benzene	ND	1.0 µg/L	12/08/10
		Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	12/08/10
		Toluene	ND	1.0 µg/L	12/08/10
		Ethylbenzene	ND	1.0 µg/L	12/08/10
		Xylenes, Total	ND	1.0 µg/L	12/08/10
Client ID :	MW-2				
Lab ID :	TRC10120747-02A	TPH-P (GRO)	ND	0.050 mg/L	12/08/10
Date Sampled	12/03/10 10:31	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/10
		Methyl tert-butyl ether (MTBE)	1.0	0.50 µg/L	12/08/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/10
		Benzene	ND	0.50 µg/L	12/08/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/10
		Toluene	ND	0.50 µg/L	12/08/10
		Ethylbenzene	ND	0.50 µg/L	12/08/10
		Xylenes, Total	ND	0.50 µg/L	12/08/10
Client ID :	MW-3				
Lab ID :	TRC10120747-03A	TPH-P (GRO)	ND	0.050 mg/L	12/08/10
Date Sampled	12/03/10 10:40	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/10
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/08/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/10
		Benzene	ND	0.50 µg/L	12/08/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/10
		Toluene	ND	0.50 µg/L	12/08/10
		Ethylbenzene	ND	0.50 µg/L	12/08/10
		Xylenes, Total	ND	0.50 µg/L	12/08/10



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Client ID :	MW-4						
Lab ID :	TRC10120747-04A	TPH-P (GRO)	0.51	0.050 mg/L	12/08/10	12/08/10	
Date Sampled	12/03/10 10:03	Tertiary Butyl Alcohol (TBA)	980 *	10 µg/L	12/08/10	12/08/10	
		Methyl tert-butyl ether (MTBE)	2.3	0.50 µg/L	12/08/10	12/08/10	
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Benzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/10	12/08/10	
		Toluene	ND	0.50 µg/L	12/08/10	12/08/10	
		Ethylbenzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Xylenes, Total	0.86	0.50 µg/L	12/08/10	12/08/10	
Client ID :	MW-5						
Lab ID :	TRC10120747-05A	TPH-P (GRO)	ND	0.050 mg/L	12/08/10	12/08/10	
Date Sampled	12/03/10 10:13	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/10	12/08/10	
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/08/10	12/08/10	
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Benzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/10	12/08/10	
		Toluene	ND	0.50 µg/L	12/08/10	12/08/10	
		Ethylbenzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Xylenes, Total	ND	0.50 µg/L	12/08/10	12/08/10	
Client ID :	MW-6						
Lab ID :	TRC10120747-06A	TPH-P (GRO)	ND	0.050 mg/L	12/08/10	12/08/10	
Date Sampled	12/03/10 10:51	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/10	12/08/10	
		Methyl tert-butyl ether (MTBE)	19	0.50 µg/L	12/08/10	12/08/10	
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Benzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/10	12/08/10	
		Toluene	ND	0.50 µg/L	12/08/10	12/08/10	
		Ethylbenzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Xylenes, Total	ND	0.50 µg/L	12/08/10	12/08/10	
Client ID :	MW-7						
Lab ID :	TRC10120747-07A	TPH-P (GRO)	ND	0.050 mg/L	12/08/10	12/08/10	
Date Sampled	12/03/10 10:22	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/10	12/08/10	
		Methyl tert-butyl ether (MTBE)	34	0.50 µg/L	12/08/10	12/08/10	
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/10	12/08/10	
		Benzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/10	12/08/10	
		Toluene	ND	0.50 µg/L	12/08/10	12/08/10	
		Ethylbenzene	ND	0.50 µg/L	12/08/10	12/08/10	
		Xylenes, Total	ND	0.50 µg/L	12/08/10	12/08/10	



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*This compound exceeded the instrument's calibration range and is an estimated value.

Gasoline Range Organics (GRO) C4-C13

This replaces the report signed 12/17/10 due to a change in the analyte list, per client request.

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
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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.

12/22/10

Report Date



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VOC Sample Preservation Report

Work Order: TRC10120747

Job: Quik Stop 56

Alpha's Sample ID	Client's Sample ID	Matrix	pH
10120747-01A	MW-1	Aqueous	2
10120747-02A	MW-2	Aqueous	2
10120747-03A	MW-3	Aqueous	2
10120747-04A	MW-4	Aqueous	2
10120747-05A	MW-5	Aqueous	2
10120747-06A	MW-6	Aqueous	2
10120747-07A	MW-7	Aqueous	2

12/17/10
Report Date

Page 1 of 1



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Date:
17-Dec-10

QC Summary Report

Work Order:
10120747

Method Blank

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

File ID: C:\HPCHEM\MS11\DATA\101207\10120709.D

Batch ID: 25598

Analysis Date: 12/07/2010 13:26

Sample ID: **MBLK-25598**

Units : $\mu\text{g/L}$

Run ID: **MSD_11_101207A**

Prep Date: 12/07/2010 10:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	ND	5								
Surr: Hexafluoro-2-propanol	494		500		99	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS11\DATA\101207\10120705.D

Batch ID: 25598

Analysis Date: 12/07/2010 12:04

Sample ID: **LCS-25598**

Units : $\mu\text{g/L}$

Run ID: **MSD_11_101207A**

Prep Date: 12/07/2010 10:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	234	5	250		94	70	142			
Surr: Hexafluoro-2-propanol	456		500		91	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS11\DATA\101207\10120707.D

Batch ID: 25598

Analysis Date: 12/07/2010 12:45

Sample ID: **10120320-02AMS**

Units : $\mu\text{g/L}$

Run ID: **MSD_11_101207A**

Prep Date: 12/07/2010 10:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	289	5	250	0	116	68	143			
Surr: Hexafluoro-2-propanol	449		500		90	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS11\DATA\101207\10120708.D

Batch ID: 25598

Analysis Date: 12/07/2010 13:06

Sample ID: **10120320-02AMSD**

Units : $\mu\text{g/L}$

Run ID: **MSD_11_101207A**

Prep Date: 12/07/2010 10:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	277	5	250	0	111	68	143	289.2	4.3(20)	
Surr: Hexafluoro-2-propanol	447		500		89	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:
17-Dec-10

QC Summary Report

Work Order:
10120747

Method Blank

File ID: 10120807.D

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

Batch ID: **MS15W1208B**

Analysis Date: **12/08/2010 10:14**

Sample ID: **MBLK MS15W1208B**

Units : mg/L

Run ID: **MSD_15_101208A**

Prep Date: **12/08/2010 10:14**

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	0.0105		0.01		105	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

Laboratory Control Spike

File ID: 10120804.D

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

Batch ID: **MS15W1208B**

Analysis Date: **12/08/2010 08:59**

Sample ID: **GLCS MS15W1208B**

Units : mg/L

Run ID: **MSD_15_101208A**

Prep Date: **12/08/2010 08:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.387	0.05	0.4		97	70	130			
Surr: 1,2-Dichloroethane-d4	0.0107		0.01		107	70	130			
Surr: Toluene-d8	0.00974		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Sample Matrix Spike

File ID: 10120810.D

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

Batch ID: **MS15W1208B**

Analysis Date: **12/08/2010 11:19**

Sample ID: **10120320-01AGS**

Units : mg/L

Run ID: **MSD_15_101208A**

Prep Date: **12/08/2010 11:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.85	0.25	2	0	92	58	135			
Surr: 1,2-Dichloroethane-d4	0.0523		0.05		105	70	130			
Surr: Toluene-d8	0.0493		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0514		0.05		103	70	130			

Sample Matrix Spike Duplicate

File ID: 10120811.D

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

Batch ID: **MS15W1208B**

Analysis Date: **12/08/2010 11:41**

Sample ID: **10120320-01AGSD**

Units : mg/L

Run ID: **MSD_15_101208A**

Prep Date: **12/08/2010 11:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.31	0.25	2	0	116	58	135	1.85	22.2(20)	R5
Surr: 1,2-Dichloroethane-d4	0.0524		0.05		105	70	130			
Surr: Toluene-d8	0.0492		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0494		0.05		99	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.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:
22-Dec-10

QC Summary Report

Work Order:
10120747

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: 10120807.D

Batch ID: MS15W1208A

Analysis Date: 12/08/2010 10:14

Sample ID: MBLK MS15W1208A

Units : µg/L

Run ID: MSD_15_101208A

Prep Date: 12/08/2010 10:14

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	10.5		10		105	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 10120803.D

Batch ID: MS15W1208A

Analysis Date: 12/08/2010 08:37

Sample ID: LCS MS15W1208A

Units : µg/L

Run ID: MSD_15_101208A

Prep Date: 12/08/2010 08:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.45	0.5	10		95	62	136			
Benzene	9.66	0.5	10		99	70	130			
Toluene	9.4	0.5	10		94	80	120			
Ethylbenzene	9.89	0.5	10		99	80	120			
Xylenes, Total	19.4	0.5	20		97	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	9.67		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.3		10		103	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 10120808.D

Batch ID: MS15W1208A

Analysis Date: 12/08/2010 10:36

Sample ID: 10120320-01AMS

Units : µg/L

Run ID: MSD_15_101208A

Prep Date: 12/08/2010 10:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	54.2	1.3	50	3.43	102	56	141			
Benzene	47.1	1.3	50	0	94	67	130			
Toluene	44.2	1.3	50	0	88	66	130			
Ethylbenzene	46.4	1.3	50	0	93	68	130			
Xylenes, Total	91.2	1.3	100	0	91	70	130			
Surr: 1,2-Dichloroethane-d4	51.5		50		103	70	130			
Surr: Toluene-d8	47		50		94	70	130			
Surr: 4-Bromofluorobenzene	48.3		50		97	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 10120809.D

Batch ID: MS15W1208A

Analysis Date: 12/08/2010 10:58

Sample ID: 10120320-01AMSD

Units : µg/L

Run ID: MSD_15_101208A

Prep Date: 12/08/2010 10:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	56.1	1.3	50	3.43	105	56	141	54.19	3.5(20)	
Benzene	48.2	1.3	50	0	96	67	130	47.05	2.4(20)	
Toluene	45.4	1.3	50	0	91	66	130	44.24	2.5(20)	
Ethylbenzene	47.9	1.3	50	0	96	68	130	46.37	3.2(20)	
Xylenes, Total	94.7	1.3	100	0	95	70	130	91.24	3.7(20)	
Surr: 1,2-Dichloroethane-d4	52.6		50		105	70	130			
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	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.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED CA

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

WorkOrder : TRC10120747
Report Due By : 5:00 PM On : 20-Dec-10

Client:
 TRC-Alton Geoscience
 1590 Solano Way Suite A

Report Attention	Phone Number	E-Mail Address
Jonathan Scheiner	(925) 688-2473 x	jscheiner@trcsolutions.com

EDD Required : Yes

Sampled by : Client

Concord, CA 94520

PO : 29252

Cooler Temp	Samples Received	Date Printed
4 °C	07-Dec-10	22-Dec-10

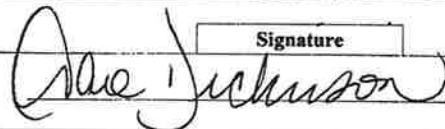
Client's COC # : none

Job : Quik Stop 56

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	TPHP_W	VOC_W	
TRC10120747-01A	MW-1	AQ	12/03/10 09:56	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	
TRC10120747-02A	MW-2	AQ	12/03/10 10:31	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	
TRC10120747-03A	MW-3	AQ	12/03/10 10:40	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	
TRC10120747-04A	MW-4	AQ	12/03/10 10:03	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	
TRC10120747-05A	MW-5	AQ	12/03/10 10:13	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	
TRC10120747-06A	MW-6	AQ	12/03/10 10:51	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	
TRC10120747-07A	MW-7	AQ	12/03/10 10:22	3	0	9	Low Level EtOH	GAS-C	BTXE/OXYS_C	

Comments: Security seals intact. Frozen ice. Total Xylenes. Amended 12/22/10 @ 12:43 to add 5 OXYS to all samples, per email from Adrienne Collins. TD. :

Logged in by:	Signature	Print Name	Company	Date/Time
		Rae Jackson	Alpha Analytical, Inc.	12/22/10 1252

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : TRC10120747

Report Due By : 5:00 PM On : 20-Dec-10

Client:

TRC-Alton Geoscience
1590 Solano Way Suite A

Report Attention	Phone Number	E-Mail Address
Jonathan Scheiner	(925) 688-2473 x	jscheiner@trcsolutions.com

EDD Required : Yes

Sampled by : Client

Concord, CA 94520

PO : 29252

Cooler Temp	Samples Received	Date Printed
4 °C	07-Dec-10	07-Dec-10

Client's COC # : none

Job : Quik Stop 56

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	
TRC10120747-01A	MW-1	AQ	12/03/10 09:56	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	
TRC10120747-02A	MW-2	AQ	12/03/10 10:31	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	
TRC10120747-03A	MW-3	AQ	12/03/10 10:40	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	
TRC10120747-04A	MW-4	AQ	12/03/10 10:03	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	
TRC10120747-05A	MW-5	AQ	12/03/10 10:13	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	
TRC10120747-06A	MW-6	AQ	12/03/10 10:51	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	
TRC10120747-07A	MW-7	AQ	12/03/10 10:22	3	0	9	Low Level EtOH	GAS-C	BTXE/M_C	

Comments: Security seals intact. Frozen ice. Total Xylenes. :

Signature	Print Name	Company	Date/Time
	Tara Dickson	Alpha Analytical, Inc.	12/7/10 1234

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

Billing Information:

Company: TRC
 Attn: Jonathan Scheiner
 Address: 1590 Solano Way, Suite A
 City, State, Zip: Concord, CA 94520
 Phone Number: 925-888-1200 Fax: 925-888-0388



Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Phone: 775-355-1044

Fax: 775-355-0406

Satellite Service Centers:

Sacramento: 9801 Horn Road, Suite C, Rancho Cordova, CA 95827

Phone: 916-366-9080

Las Vegas: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 702-738-7522

Los Angeles: 1007 E. Dominguez St., Suite O, Carson, CA 90748

Phone: 714-386-2901

Page # of

Consultant/ Client Info:

Company: TRC
 Address: 1590 Solano Way, Suite A
 City, State, Zip: Concord, CA 94520

Job and Purchase Order Info:

Job #:
 Job Name: Outk Stop 58
 P.O. #: 29252

Report Attention/Project Manager:

Name: Jonathan Scheiner
 Email Address: jscheiner@trc-solutions.com
 Phone #: 925-888-1200
 Cell #: 925-280-4908

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
 Global ID: T06018774175
 Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV WA ID OR DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested		Remarks
								TPH-g/BTEX/MTBE	Ethanol	
1031	12/03/10	OT	TRC10120747-01	MW-1	STD	N/A	8-V	X	X	
1040		OT	-02	MW-2	STD	N/A	8-V	X	X	
1003		OT	-03	MW-3	STD	N/A	8-V	X	X	
1013		OT	-04	MW-4	STD	N/A	8-V	X	X	
1051		OT	-05	MW-5	STD	N/A	8-V	X	X	
1022		OT	-06	MW-6	STD	N/A	8-V	X	X	
		OT	-07	MW-7	STD	N/A	8-V	X	X	

ADDITIONAL INSTRUCTIONS:

Requires EDF.

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0638 (c) (2).

Sampled By: <u>[Signature]</u>	Date: <u>12/03/10</u>	Time: <u>0956</u>	Received by: <u>[Signature]</u>	Date: <u>12-6-10</u>	Time: <u>1045</u>
Relinquished by: <u>[Signature]</u>	Date: <u>12-6-10</u>	Time: <u>1500</u>	Received by: <u>[Signature]</u>	Date: <u>12/7/10</u>	Time: <u>1233</u>

* Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.