

Quik Stop Markets, Inc.

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

RECEIVED

2:17 pm, Nov 03, 2010

Alameda County
Environmental Health

November 3, 2010

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 – Third 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

October 15, 2010

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: QUARTERLY GROUNDWATER MONITORING REPORT
THIRD QUARTER 2010

Dear Mr. Plunkett:

Enclosed is a copy of the *Third Quarter 2010 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
THIRD QUARTER 2010

Dear Mr. Karvelot:

This *Third Quarter 2010 Quarterly Groundwater Monitoring Report* presents the results of the Third 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 September 14, 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 122.56 feet above mean sea level (MSL) in MW-6 at the south end of the study area to 130.22 feet above MSL in MW-3 in the north, with an average elevation of 126.40 feet above MSL. Groundwater flow direction was predominantly to the southwest at a gradient of 0.071 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

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 September 14, 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 74 gallons of purge water and equipment rinsate were generated during groundwater sampling activities conducted on September 14, 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

Third 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 [µg/L]) to 520 µg/L (MW-4). MTBE concentrations ranged from non-detect (<0.50 µg/L) to 470 µg/L (MW-1), and TBA concentrations ranged from non-detect (<10 µg/L) to 2,900 µg/L (MW-4) during this sampling event. No other analytes were detected above their respective reporting limits.

2.3 Discussion

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

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).

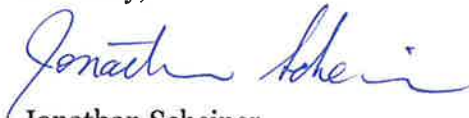
The spatial pattern of MTBE in groundwater has not been defined, but will be the subject of ongoing investigation as part of the required Site Conceptual Model currently being developed per ACDEH request.

3.0 LIST OF ATTACHMENTS

- Figure 1: Vicinity Map
- Figure 2: Groundwater Elevation Contour Map, September 14, 2010
- Figure 3: Dissolved-Phase Constituent Concentrations, September 14, 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



TABLES

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-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-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

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-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-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	—	—	—	—	—	—	

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	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	—	
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-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	—	
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	—	
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	—	
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-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	—	
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	—	
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	—	
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	—	

Table 1
Summary of Groundwater Levels and Chemical Analysis

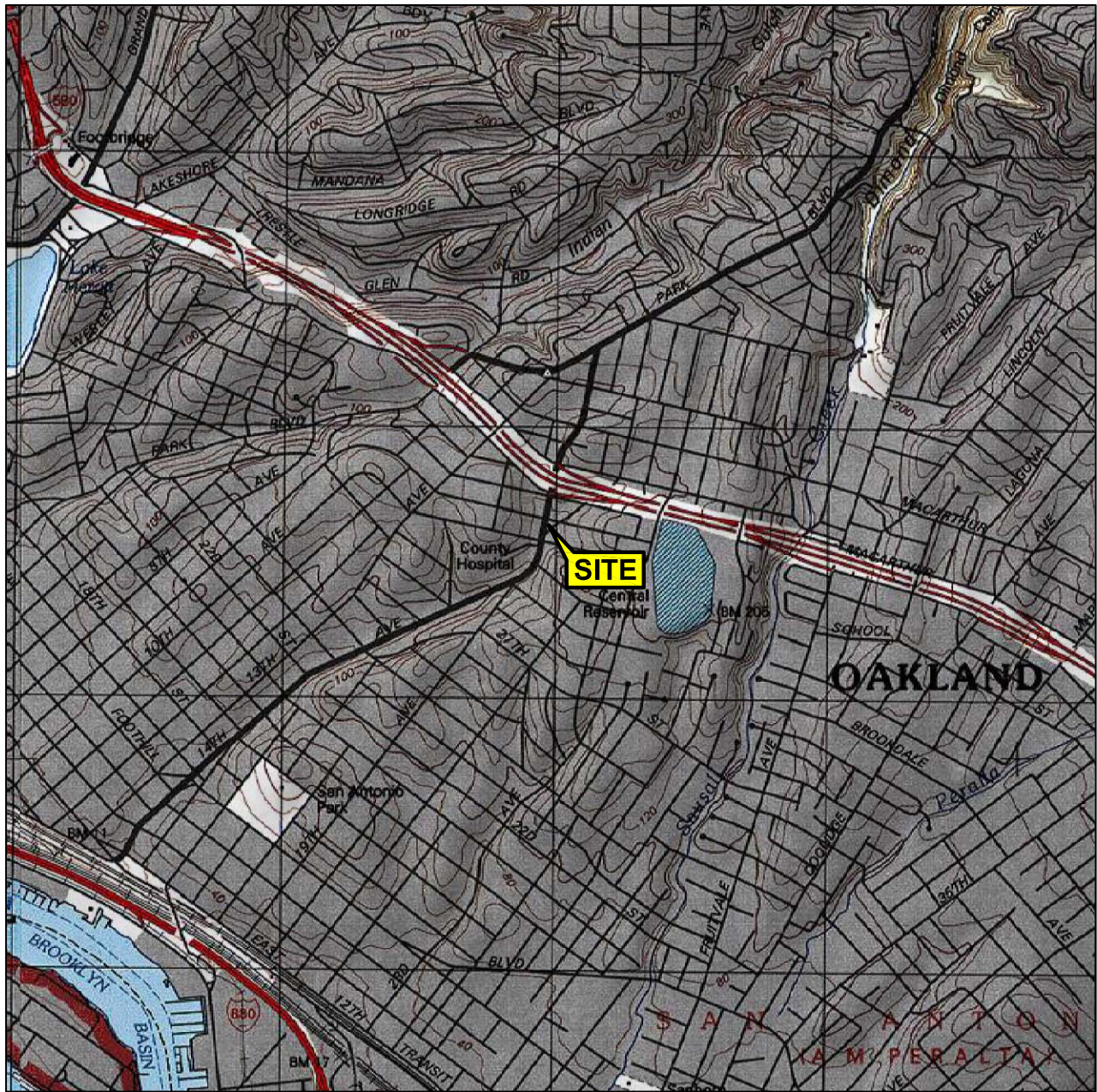
Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

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	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-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-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	—

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

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

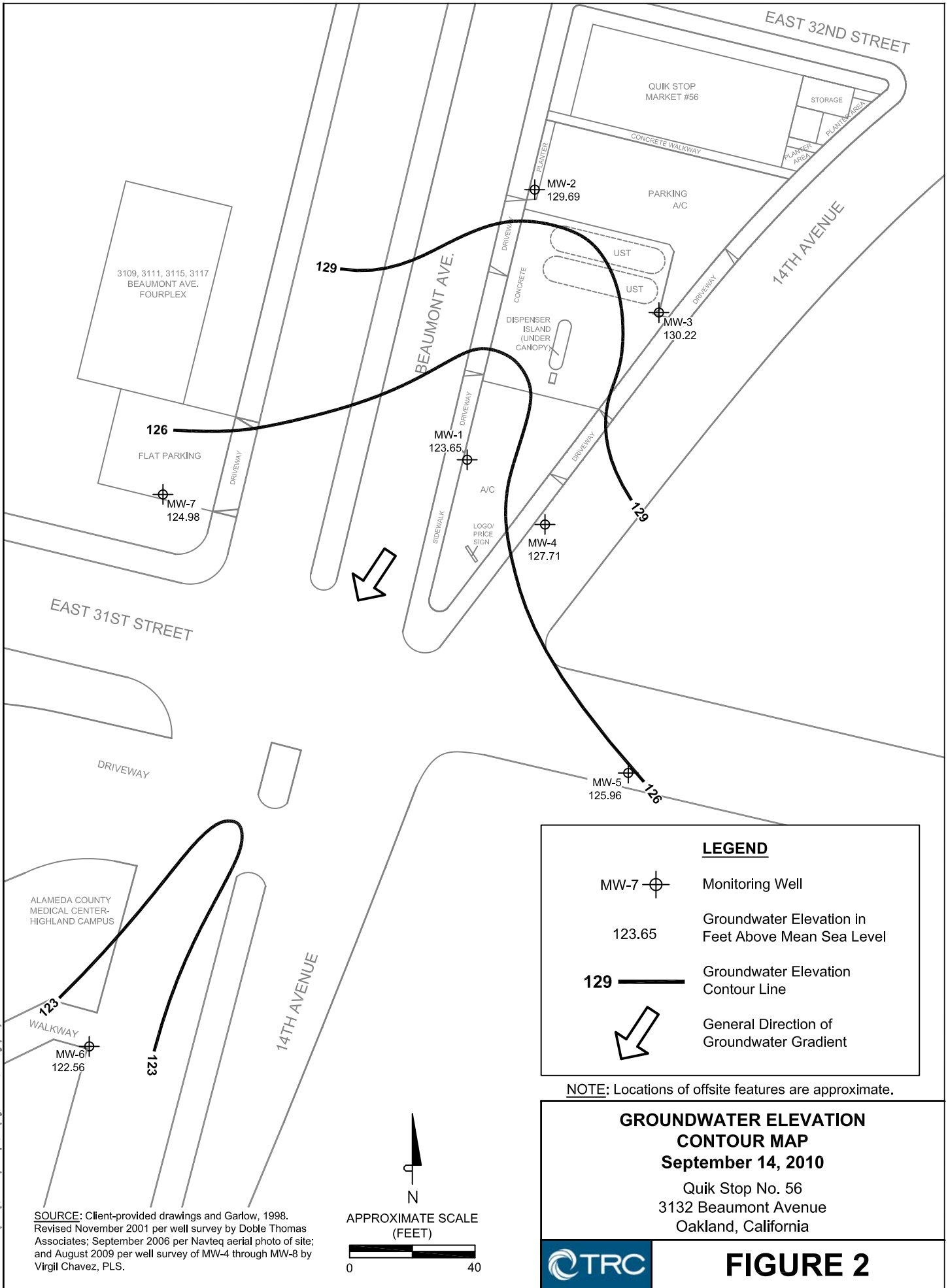
VICINITY MAP

Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California



FIGURE 1

FILE NAME: H:\CADD\Quik Stop 56\3010\Fig2_GW_3010.dwg | Layout Tab: 0x11



LEGEND

- MW-7 Monitoring Well
- 123.65 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**
September 14, 2010
 Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California

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.

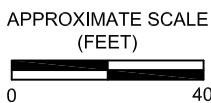
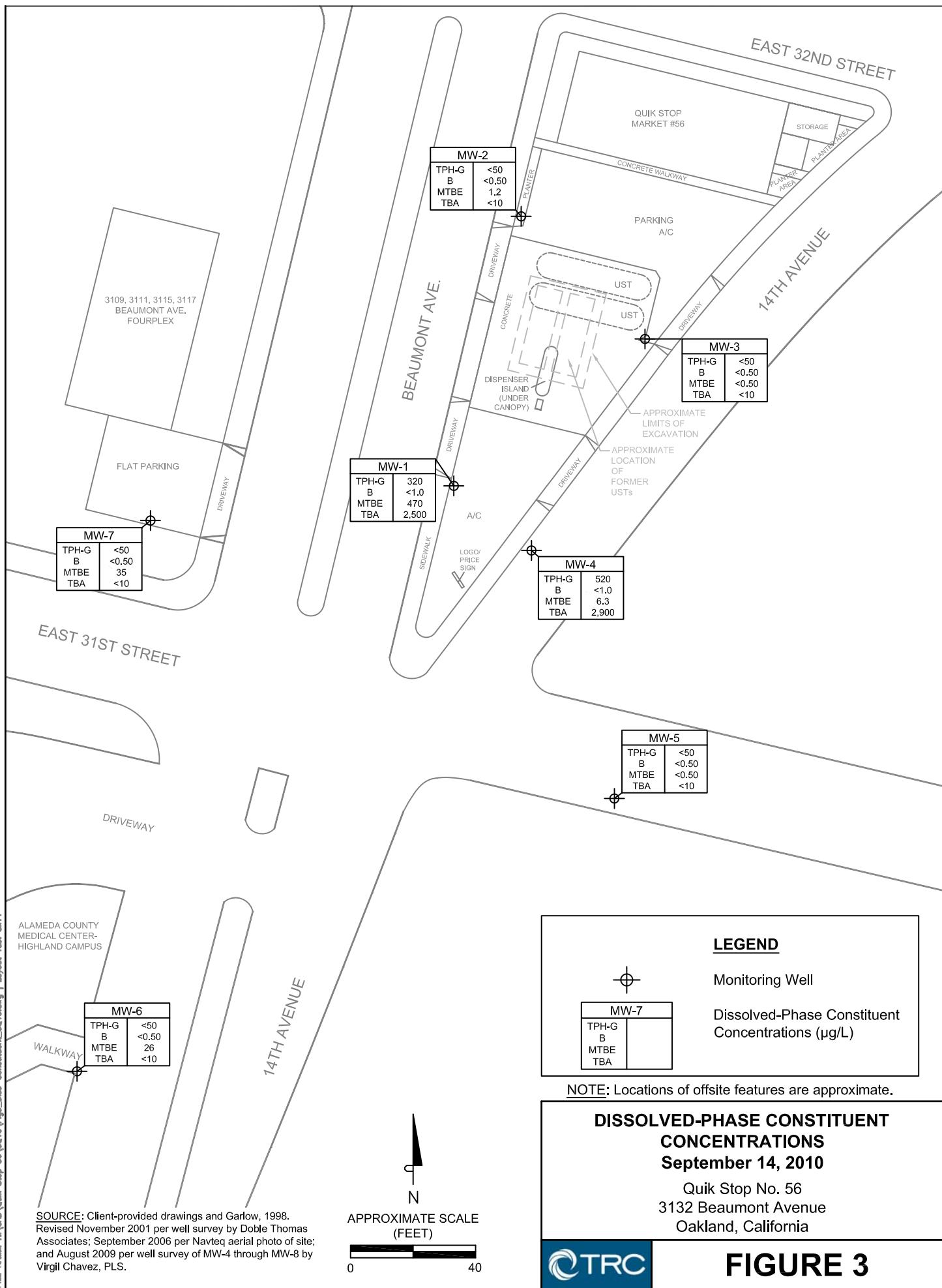


FIGURE 2

FILE NAME: H:\CADD\Quik Stop 56\3010\Fig3_Diss-Constituent_3010.dwg | Layout Tab: Bx11



MW-7	
TPH-G	<50
B	<0.50
MTBE	35
TBA	<10

MW-1	
TPH-G	320
B	<1.0
MTBE	470
TBA	2,500

MW-2	
TPH-G	<50
B	<0.50
MTBE	1.2
TBA	<10


MW-3	
TPH-G	<50
B	<0.50
MTBE	<0.50
TBA	<10

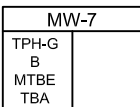
MW-4	
TPH-G	520
B	<1.0
MTBE	6.3
TBA	2,900

MW-5	
TPH-G	<50
B	<0.50
MTBE	<0.50
TBA	<10

MW-6	
TPH-G	<50
B	<0.50
MTBE	26
TBA	<10

LEGEND


 Monitoring Well

 Dissolved-Phase Constituent Concentrations (µg/L)

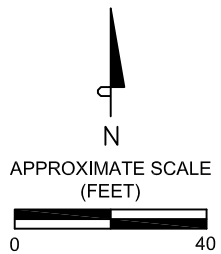
NOTE: Locations of offsite features are approximate.

DISSOLVED-PHASE CONSTITUENT CONCENTRATIONS
September 14, 2010

Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California

 **FIGURE 3**

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.



APPENDIX

General Field Procedures, Field Measurement Forms, Official Lab 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: JOE

Site: QUIK STOP 56

Project No.: 174867

Date: 09/14/10

Well No. MW-2

Purge Method: SUB

Depth to Water (feet): 5.47

Depth to Product (feet): _____

Total Depth (feet): 29.95

LPH & Water Recovered (gallons): _____

Water Column (feet): 24.48

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.36

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									
<u>0557</u>			<u>5</u>	<u>1215</u>	<u>20.2</u>	<u>6.52</u>			
			<u>10</u>	<u>1244</u>	<u>20.1</u>	<u>6.44</u>			
	<u>0603</u>		<u>15</u>	<u>1260</u>	<u>20.0</u>	<u>6.44</u>			
			<u>20.5L</u>						
Static at Time Sampled			Total Gallons Purged		Sample Time				
<u>6.45</u>			<u>15</u>		<u>0837</u>				
Comments:									

Well No. MW-3

Purge Method: SUB

Depth to Water (feet): 6.13

Depth to Product (feet): _____

Total Depth (feet): 30.30

LPH & Water Recovered (gallons): _____

Water Column (feet): 24.17

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.96

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									
<u>0616</u>			<u>5</u>	<u>336.7</u>	<u>19.7</u>	<u>6.90</u>			
			<u>10</u>	<u>1002</u>	<u>20.2</u>	<u>6.61</u>			
			<u>15</u>	<u>998.6</u>	<u>20.1</u>	<u>6.60</u>			
	<u>0626</u>		<u>20</u>	<u>1000</u>	<u>19.9</u>	<u>6.58</u>			
Static at Time Sampled			Total Gallons Purged		Sample Time				
<u>7.40</u>			<u>20</u>		<u>0846</u>				
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE
174867

Site: QUICK STOP 56

Project No.: 174867

Date: 09/14/10

Well No. MW-1

Purge Method: SUB

Depth to Water (feet): 10.48

Depth to Product (feet):

Total Depth (feet) 30.03

LPH & Water Recovered (gallons):

Water Column (feet): 19.55

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 14.39

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>0633</u>			<u>4</u>	<u>1028</u>	<u>20.3</u>	<u>6.72</u>			
			<u>8</u>	<u>967.2</u>	<u>20.7</u>	<u>6.55</u>			
	<u>0638</u>		<u>12</u>	<u>1039</u>	<u>20.5</u>	<u>6.48</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>14.25</u>			<u>12</u>			<u>0853</u>			
Comments:									

Well No. MW-6

Purge Method: SUB

Depth to Water (feet): 6.27

Depth to Product (feet):

Total Depth (feet) 19.20

LPH & Water Recovered (gallons):

Water Column (feet): 12.93

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.85

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>0741</u>	<u>0746</u>		<u>3</u>	<u>1073</u>	<u>18.0</u>	<u>7.23</u>			
<u>0750</u>	<u>0752</u>		<u>6</u>	<u>1081</u>	<u>18.1</u>	<u>7.00</u>			
<u>0755</u>	<u>0756</u>		<u>9</u>	<u>1091</u>	<u>18.3</u>	<u>7.19</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>7.52</u>			<u>9</u>			<u>0937</u>			
Comments: <u>DRY AT 5 GALS. DRY AT EACH WELL VOLUME</u>									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: QUICK STOP 56

Project No.: 173845

Date: 09/14/10

Well No. MW-5

Purge Method: HB

Depth to Water (feet): 7.62

Depth to Product (feet):

Total Depth (feet) 10.31

LPH & Water Recovered (gallons):

Water Column (feet): 2.69

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.15

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									
0657			1	336.6	19.4	6.58			
			2	325.9	20.4	6.09			
	0703		3	327.8	20.1	6.02			
Static at Time Sampled			Total Gallons Purged			Sample Time			
7.40			3			0909			
Comments:									

Well No. MW-4

Purge Method: JL-Sub HB

Depth to Water (feet): 5.88

Depth to Product (feet):

Total Depth (feet) 14.75

LPH & Water Recovered (gallons):

Water Column (feet): 8.87

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 7.65

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									
0543			2	790.5	20.3	6.86			
			4	782.1	20.9	6.75			
	0652		6	784.6	20.7	6.72			
Static at Time Sampled			Total Gallons Purged			Sample Time			
6.90			6			0902			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: QUICK STOP 56

Project No.: 174867

Date: 09/14/10

Well No. MW-7

Purge Method: HB

Depth to Water (feet): 9.39

Depth to Product (feet):

Total Depth (feet) 24.80

LPH & Water Recovered (gallons):

Water Column (feet): 15.41

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.47

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									
0711			3	1883	18.4	6.30			
			6	1864	18.8	6.58			
	0725		9	1876	18.7	6.63			
Static at Time Sampled			Total Gallons Purged			Sample Time			
11.10			9			0921			
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:									



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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 : 09/16/10

Job: Quik Stop 56

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-2 Lab ID: TRC10091643-01A Ethanol Date Sampled 09/14/10 08:37	ND	5.0 µg/L	09/17/10 11:07	09/17/10
Client ID: MW-3 Lab ID: TRC10091643-02A Ethanol Date Sampled 09/14/10 08:46	ND	5.0 µg/L	09/17/10 11:07	09/17/10
Client ID: MW-1 Lab ID: TRC10091643-03A Ethanol Date Sampled 09/14/10 08:53	ND	5.0 µg/L	09/17/10 11:07	09/17/10
Client ID: MW-6 Lab ID: TRC10091643-04A Ethanol Date Sampled 09/14/10 09:37	ND	5.0 µg/L	09/17/10 11:07	09/17/10
Client ID: MW-5 Lab ID: TRC10091643-05A Ethanol Date Sampled 09/14/10 09:09	ND	5.0 µg/L	09/17/10 11:07	09/17/10
Client ID: MW-4 Lab ID: TRC10091643-06A Ethanol Date Sampled 09/14/10 09:06	ND	5.0 µg/L	09/17/10 11:07	09/17/10
Client ID: MW-7 Lab ID: TRC10091643-07A Ethanol Date Sampled 09/14/10 09:21	ND	5.0 µg/L	09/17/10 11:07	09/17/10

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.

PS
9/29/10

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 : 09/16/10

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-2				
Lab ID :	TRC10091643-01A	TPH-P (GRO)	ND	0.050 mg/L	09/22/10
Date Sampled	09/14/10 08:37	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	09/22/10
		Methyl tert-butyl ether (MTBE)	1.2	0.50 µg/L	09/22/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	09/22/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	09/22/10
		Benzene	ND	0.50 µg/L	09/22/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	09/22/10
		Toluene	ND	0.50 µg/L	09/22/10
		Ethylbenzene	ND	0.50 µg/L	09/22/10
		Xylenes, Total	ND	0.50 µg/L	09/22/10
Client ID :	MW-3				
Lab ID :	TRC10091643-02A	TPH-P (GRO)	ND	0.050 mg/L	09/22/10
Date Sampled	09/14/10 08:46	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	09/22/10
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/22/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	09/22/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	09/22/10
		Benzene	ND	0.50 µg/L	09/22/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	09/22/10
		Toluene	ND	0.50 µg/L	09/22/10
		Ethylbenzene	ND	0.50 µg/L	09/22/10
		Xylenes, Total	ND	0.50 µg/L	09/22/10
Client ID :	MW-1				
Lab ID :	TRC10091643-03A	TPH-P (GRO)	0.32	0.20 mg/L	09/22/10
Date Sampled	09/14/10 08:53	Tertiary Butyl Alcohol (TBA)	2,500	20 µg/L	09/22/10
		Methyl tert-butyl ether (MTBE)	470	1.0 µg/L	09/22/10
		Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L
		Benzene	ND	V	1.0 µg/L
		Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L
		Toluene	ND	V	1.0 µg/L
		Ethylbenzene	ND	V	1.0 µg/L
		Xylenes, Total	ND	V	1.0 µg/L



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Client ID : **MW-6**

Lab ID :	TRC10091643-04A	TPH-P (GRO)	ND	0.050 mg/L	09/22/10	09/22/10
Date Sampled	09/14/10 09:37	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	09/22/10	09/22/10
		Methyl tert-butyl ether (MTBE)	26	0.50 µg/L	09/22/10	09/22/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	09/22/10	09/22/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	09/22/10	09/22/10
		Benzene	ND	0.50 µg/L	09/22/10	09/22/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	09/22/10	09/22/10
		Toluene	ND	0.50 µg/L	09/22/10	09/22/10
		Ethylbenzene	ND	0.50 µg/L	09/22/10	09/22/10
		Xylenes, Total	ND	0.50 µg/L	09/22/10	09/22/10

Client ID : **MW-5**

Lab ID :	TRC10091643-05A	TPH-P (GRO)	ND	0.050 mg/L	09/22/10	09/22/10
Date Sampled	09/14/10 09:09	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	09/22/10	09/22/10
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/22/10	09/22/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	09/22/10	09/22/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	09/22/10	09/22/10
		Benzene	ND	0.50 µg/L	09/22/10	09/22/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	09/22/10	09/22/10
		Toluene	ND	0.50 µg/L	09/22/10	09/22/10
		Ethylbenzene	ND	0.50 µg/L	09/22/10	09/22/10
		Xylenes, Total	ND	0.50 µg/L	09/22/10	09/22/10

Client ID : **MW-4**

Lab ID :	TRC10091643-06A	TPH-P (GRO)	0.52	0.20 mg/L	09/22/10	09/22/10
Date Sampled	09/14/10 09:06	Tertiary Butyl Alcohol (TBA)	2,900	20 µg/L	09/22/10	09/22/10
		Methyl tert-butyl ether (MTBE)	6.3	1.0 µg/L	09/22/10	09/22/10
		Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	09/22/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	09/22/10
		Benzene	ND	V	1.0 µg/L	09/22/10
		Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	09/22/10
		Toluene	ND	V	1.0 µg/L	09/22/10
		Ethylbenzene	ND	V	1.0 µg/L	09/22/10
		Xylenes, Total	ND	V	1.0 µg/L	09/22/10

Client ID : **MW-7**

Lab ID :	TRC10091643-07A	TPH-P (GRO)	ND	0.050 mg/L	09/22/10	09/22/10
Date Sampled	09/14/10 09:21	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	09/22/10	09/22/10
		Methyl tert-butyl ether (MTBE)	35	0.50 µg/L	09/22/10	09/22/10
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	09/22/10	09/22/10
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	09/22/10	09/22/10
		Benzene	ND	0.50 µg/L	09/22/10	09/22/10
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	09/22/10	09/22/10
		Toluene	ND	0.50 µg/L	09/22/10	09/22/10
		Ethylbenzene	ND	0.50 µg/L	09/22/10	09/22/10
		Xylenes, Total	ND	0.50 µg/L	09/22/10	09/22/10



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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 / Carson, CA • (714) 386-2901 / 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.

RS

9/29/10

Report Date



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VOC Sample Preservation Report

Work Order: TRC10091643

Job: Quik Stop 56

Alpha's Sample ID	Client's Sample ID	Matrix	pH
10091643-01A	MW-2	Aqueous	2
10091643-02A	MW-3	Aqueous	2
10091643-03A	MW-1	Aqueous	2
10091643-04A	MW-6	Aqueous	2
10091643-05A	MW-5	Aqueous	2
10091643-06A	MW-4	Aqueous	2
10091643-07A	MW-7	Aqueous	2

9/29/10
Report Date



Alpha Analytical, Inc.

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Date:
23-Sep-10

QC Summary Report

Work Order:
10091643

Method Blank

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

File ID: C:\HPCHEM\MMS11\DATA\100917\10091709.D

Batch ID: **25065**

Analysis Date: **09/17/2010 15:23**

Sample ID: **MBLK-25065**

Units: **µg/L**

Run ID: **MSD_11_100917A**

Prep Date: **09/17/2010 11:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	ND	5								
Surr: Hexafluoro-2-propanol	445		500		89	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MMS11\DATA\100917\10091705.D

Batch ID: **25065**

Analysis Date: **09/17/2010 13:48**

Sample ID: **LCS-25065**

Units: **µg/L**

Run ID: **MSD_11_100917A**

Prep Date: **09/17/2010 11:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	209	5	250		84	70	142			
Surr: Hexafluoro-2-propanol	436		500		87	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MMS11\DATA\100917\10091791.D

Batch ID: **25065**

Analysis Date: **09/17/2010 15:04**

Sample ID: **10091521-02AMS**

Units: **µg/L**

Run ID: **MSD_11_100917A**

Prep Date: **09/17/2010 11:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	317	5	250		0	127	68	143		
Surr: Hexafluoro-2-propanol	481		500		96	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MMS11\DATA\100917\10091708.D

Batch ID: **25065**

Analysis Date: **09/17/2010 14:45**

Sample ID: **10091521-02AMSD**

Units: **µg/L**

Run ID: **MSD_11_100917A**

Prep Date: **09/17/2010 11:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	324	5	250		0	129	68	143	316.6	2.2(20)
Surr: Hexafluoro-2-propanol	499		500		99.8	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:
23-Sep-10

QC Summary Report

Work Order:
10091643

Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092205.D

Batch ID: **MS10W0922B**

Analysis Date: **09/22/2010 10:19**

Sample ID: **MBLK MS10W0922B**

Units : **mg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 10:19**

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	0.00867		0.01		87	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00969		0.01		97	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092204.D

Batch ID: **MS10W0922B**

Analysis Date: **09/22/2010 09:57**

Sample ID: **GLCS MS10W0922B**

Units : **mg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 09:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.407	0.05	0.4		102	70	130			
Surr: 1,2-Dichloroethane-d4	0.00866		0.01		87	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00962		0.01		96	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092209.D

Batch ID: **MS10W0922B**

Analysis Date: **09/22/2010 11:50**

Sample ID: **10091643-01AGS**

Units : **mg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 11:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.9	0.25	2	0	95	58	135			
Surr: 1,2-Dichloroethane-d4	0.0421		0.05		84	70	130			
Surr: Toluene-d8	0.0528		0.05		106	70	130			
Surr: 4-Bromofluorobenzene	0.0483		0.05		97	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092210.D

Batch ID: **MS10W0922B**

Analysis Date: **09/22/2010 12:12**

Sample ID: **10091643-01AGSD**

Units : **mg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 12:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.06	0.25	2	0	103	58	135	1.899	8.1(20)	
Surr: 1,2-Dichloroethane-d4	0.0425		0.05		85	70	130			
Surr: Toluene-d8	0.0546		0.05		109	70	130			
Surr: 4-Bromofluorobenzene	0.0493		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.



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Date:
23-Sep-10

QC Summary Report

Work Order:
10091643

Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092205.D

Batch ID: **MS10W0922A**

Analysis Date: **09/22/2010 10:19**

Sample ID: **MBLK MS10W0922A**

Units: **µg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 10:19**

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	8.67		10		87	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.69		10		97	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092206.D

Batch ID: **MS10W0922A**

Analysis Date: **09/22/2010 10:41**

Sample ID: **LCS MS10W0922A**

Units: **µg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 10:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.3	0.5	10		103	62	136			
Benzene	10.6	0.5	10		106	70	130			
Toluene	11.3	0.5	10		113	80	120			
Ethylbenzene	11.5	0.5	10		115	80	120			
Xylenes, Total	21.7	0.5	20		108	70	130			
Surr: 1,2-Dichloroethane-d4	8.59		10		86	70	130			
Surr: Toluene-d8	10.9		10		109	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092207.D

Batch ID: **MS10W0922A**

Analysis Date: **09/22/2010 11:06**

Sample ID: **10091643-01AMS**

Units: **µg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 11:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	50.1	1.3	50	1.16	98	56	141			
Benzene	53.6	1.3	50	0	107	67	130			
Toluene	56.2	1.3	50	0	112	66	130			
Ethylbenzene	58	1.3	50	0	116	68	130			
Xylenes, Total	110	1.3	100	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	42		50		84	70	130			
Surr: Toluene-d8	52.8		50		106	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.7	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS10\DATA\100922\10092208.D

Batch ID: **MS10W0922A**

Analysis Date: **09/22/2010 11:28**

Sample ID: **10091643-01AMSD**

Units: **µg/L**

Run ID: **MSD_10_100922A**

Prep Date: **09/22/2010 11:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	59	1.3	50	1.16	116	56	141	50.05	16.4(20)	
Benzene	60.5	1.3	50	0	121	67	130	53.59	12.1(20)	
Toluene	62.1	1.3	50	0	124	66	130	56.18	9.9(20)	
Ethylbenzene	63.2	1.3	50	0	126	68	130	57.98	8.6(20)	
Xylenes, Total	121	1.3	100	0	121	70	130	110.2	9.0(20)	
Surr: 1,2-Dichloroethane-d4	43.1		50		86	70	130			
Surr: Toluene-d8	53		50		106	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.

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 : TRC10091643
Report Due By : 5:00 PM On : 30-Sep-10

Client:
 TRC-Alton Geoscience
 1590 Solano Way Suite A

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

EDD Required : Yes

Concord, CA 94520

Sampled by : Client

PO : 27337

Cooler Temp	Samples Received	Date Printed
1 °C	16-Sep-10	16-Sep-10

Client's COC # : 29489

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					
TRC10091643-01A	MW-2	AQ	09/14/10 08:37	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					
TRC10091643-02A	MW-3	AQ	09/14/10 08:46	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					
TRC10091643-03A	MW-1	AQ	09/14/10 08:53	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					
TRC10091643-04A	MW-6	AQ	09/14/10 09:37	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					
TRC10091643-05A	MW-5	AQ	09/14/10 09:09	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					
TRC10091643-06A	MW-4	AQ	09/14/10 09:06	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					
TRC10091643-07A	MW-7	AQ	09/14/10 09:21	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C					

Comments: No security seals. Frozen ice. Total Xylenes :

Signature	Print Name	Company	Date/Time
	Tara Dickerson	Alpha Analytical, Inc.	9/16/10 10:10

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

