Quik Stop Markets, Inc.

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

July 26, 2013

Ms. Karel Detterman, PG
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
1131 Harbor Bay Parkway
Alameda, California 94502-6577

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

Subject: Second Quarter 2013 Semiannual Groundwater Monitoring Report

Dear Ms. Detterman:

I have reviewed and approved the subject report. I declare, under penalty of perjury, that the information and/or conclusions 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

One Concord Center
2300 Clayton Road, Suite 610
Concord, CA 94520

925.688.1200 PHONE
925.688.0388 FAX

www.TRCsolutions.com

July 30, 2013 Project No. 201892

Ms. Karel Detterman, PG
Hazardous Materials Specialist
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: SEMIANNUAL GROUNDWATER MONITORING REPORT
SECOND QUARTER 2013

Dear Ms. Detterman:

Enclosed is a copy of the *Second Quarter 2013 Semiannual 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 E. Scheiner

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: SEMIANNUAL GROUNDWATER MONITORING REPORT
SECOND QUARTER 2013

Dear Mr. Karvelot:

This *Second Quarter 2013 Semiannual Groundwater Monitoring Report* presents the results of the Second Quarter 2013 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 and MW-6 on June 21, 2013. Offsite well, MW-7, located on private residential property, was inaccessible this quarter. 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 121.25 feet above mean sea level (MSL) in MW-6 at the south end of the study area to 129.64 feet above MSL in MW-3 in the north, with an average elevation of 126.04 feet above MSL. Groundwater flow direction was predominantly to the southwest at a gradient of 0.050 feet per foot in the northern portion of the study area, and approximately 0.022 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). Surface topography is 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. Groundwater flow direction and gradient remains consistent with historical trends.

2.0 GROUNDWATER SAMPLING

2.1 Field Sampling and Analytical Testing

On June 21, 2013, groundwater samples were collected from onsite wells MW-1, MW-2, and MW-3, and offsite monitoring wells MW-4, MW-5 and MW-6. Approximately 140 gallons of purge water and equipment rinsate were generated during groundwater sampling activities conducted on June 21, 2013. The purge water was stored onsite in three 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

Second Quarter 2013 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 580 µg/L (MW-4). MTBE concentrations ranged from non-detect (<0.50 µg/L) to 8.4 µg/L (MW-1), and TBA concentrations ranged from non-detect (<10 µg/L) to 1,500 µg/L (MW-4) during this sampling event. Benzene was detected in MW-4 at 0.63 µg/L. No other analytes were detected above their respective reporting limits.

2.3 Discussion

The Second Quarter 2013 monitoring event represents the eleventh monitoring with the expanded well network (i.e., including offsite wells MW-4 through MW-7), and is also the eleventh 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 Fourth Quarter 2012 monitoring event.

The presence of a detectable level of TPH-G was reported in the southern (downgradient) offsite area, in well MW-4. TBA was also detected in downgradient wells MW-1, MW-4 and MW-6 located beyond the southern Site perimeter.

MTBE was detected in four of the six groundwater samples analyzed (i.e., except for MW-3 and MW-5). The maximum concentration of MTBE was reported in MW-1 at a concentration of 8.4 µg/L.

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

As concluded in the Site Conceptual Model (SCM), the lateral extent of impacts to shallow groundwater has been defined, and the well network is deemed adequate (TRC, 2011). Pursuant to a request by the ACDEH dated June 23, 2011, the vertical extent of groundwater impacts was evaluated and defined during the Additional Soil and Groundwater Investigation, completed in December 2011 (TRC, January 2012).

Previous requests for consideration of low risk case closure are hereby reiterated based on the findings of the SCM and the Additional Soil and Groundwater Investigation, and by consistent results reported during routine quarterly and semiannual monitoring.

3.0 LIST OF ATTACHMENTS

Figure 1:	Vicinity Map
Figure 2:	Groundwater Elevation Contour Map, June 21, 2013
Figure 3:	Dissolved-Phase Constituent Concentrations, June 21, 2013
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 E. Scheiner

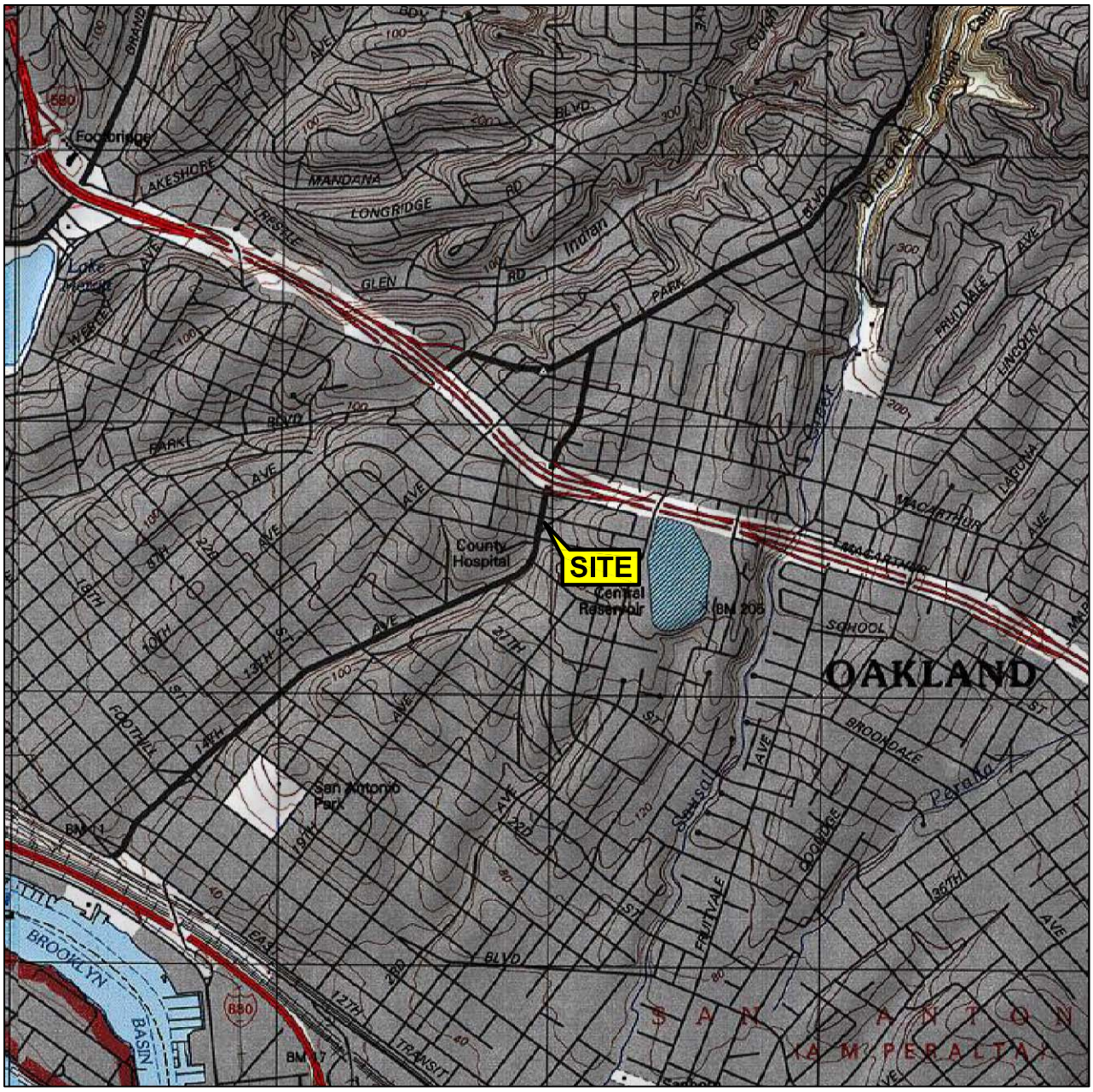
Jonathan Scheiner
Project Manager

Rachelle Clair

Rachelle Clair, P.G.
Project Geologist

TRC

FIGURES



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

SCALE 1 : 24,000

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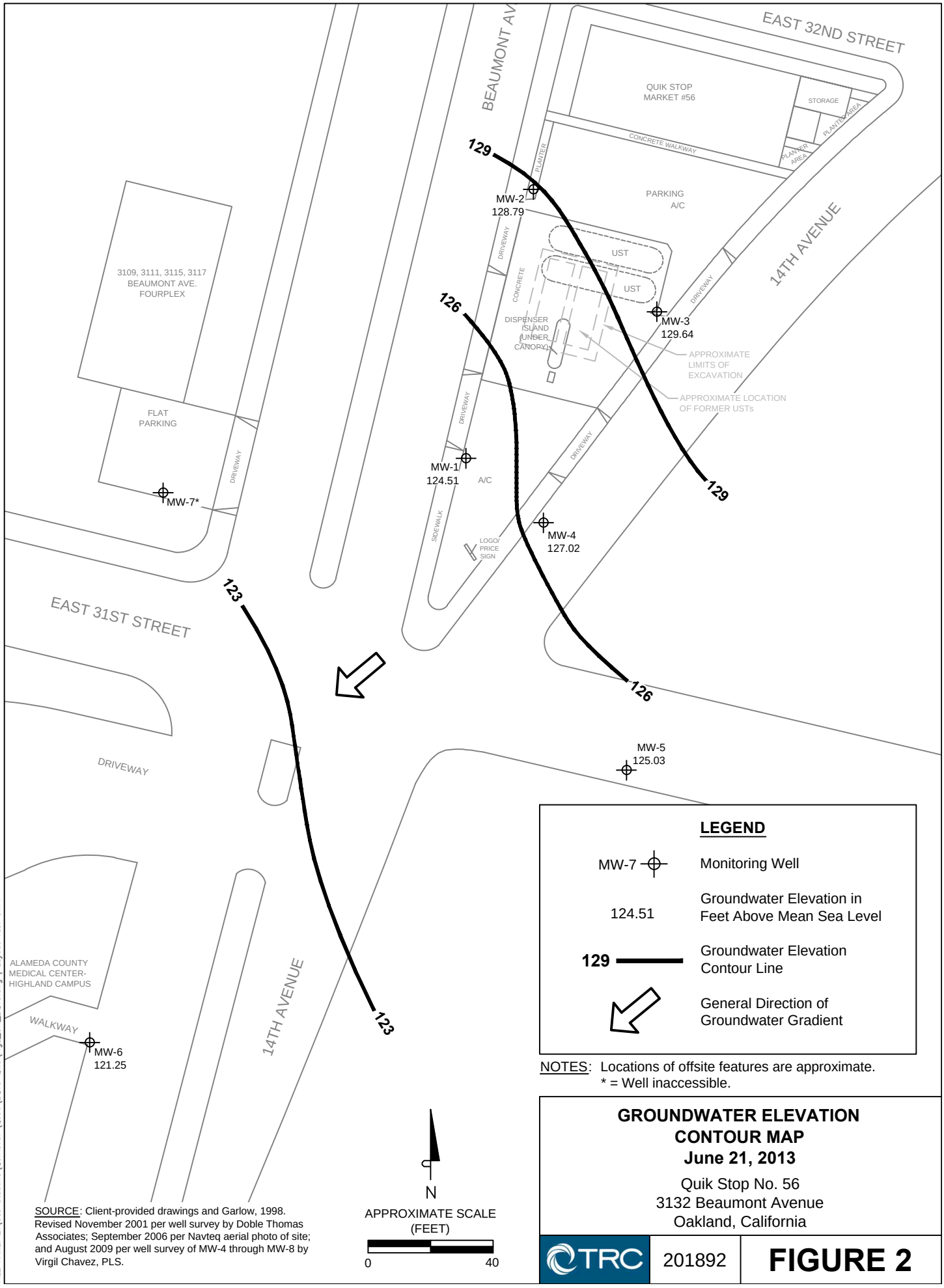
SOURCE:
United States Geological Survey
7.5 Minute Topographic Maps:
Oakland East and
Oakland West Quadrangles

VICINITY MAP

Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

TRC

FIGURE 1



NOTES: Locations of offsite features are approximate.
* = Well inaccessible.

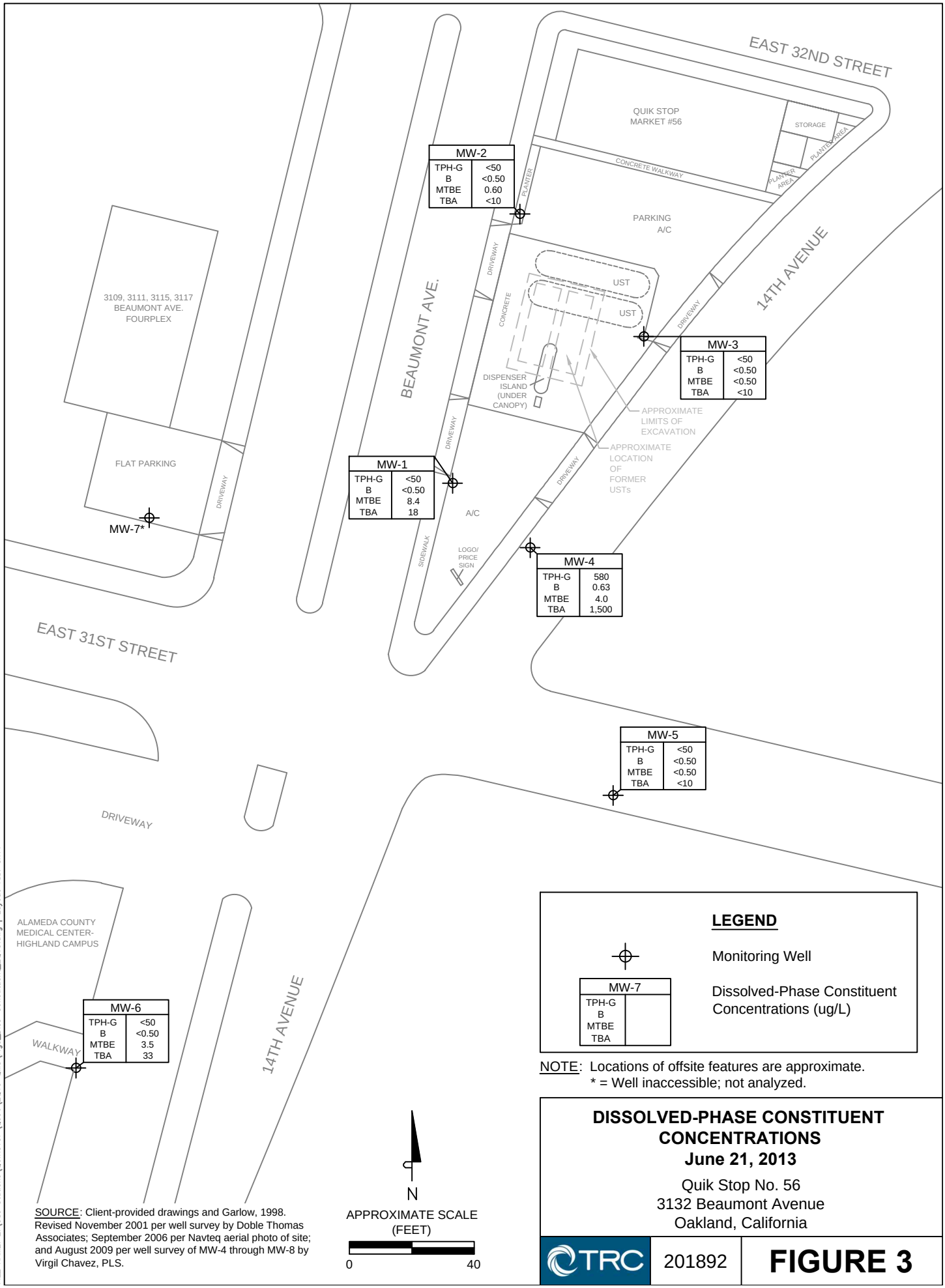
SOURCE: Client-provided drawings and Garlow, 1998. Revised November 2001 per well survey by Doble Thomas Associates; September 2006 per Navteq aerial photo of site; and August 2009 per well survey of MW-4 through MW-8 by Virgil Chavez, PLS.

GROUNDWATER ELEVATION CONTOUR MAP
June 21, 2013

Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

TRC | 201892 | **FIGURE 2**

FILE NAME: Z:\Gas Stations\QUIKSTOP\Qs56\2013 QMS\Fig2_GW_2013.dwg | Layout Tab: 8x11



NOTE: Locations of offsite features are approximate.
* = Well inaccessible; not analyzed.

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.

DISSOLVED-PHASE CONSTITUENT CONCENTRATIONS
June 21, 2013

Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

TRC | 201892 | **FIGURE 3**

FILE NAME: Z:\Gas Stations\QUIKSTOP\Qs56\2013 QMS\Fig3_Diss-Constituent_2013.dwg | Layout Tab: 8x11

TABLE

Table 1

Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	Ethanol (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	DO (mg/L)
MW-1	03/02/00	131.58	10.33	121.25	670	<1.0	<1.0	<1.0	<1.0	2,200	—	—	—	—	—	0.62
MW-1	11/16/00	131.58	11.86	119.72	<500	<0.5	<0.5	<0.5	<0.5	18,000	—	—	—	—	—	0.34
MW-1	01/23/01	131.58	11.05	120.53	6,400	<10	<10	<10	<10	21,000	—	—	—	—	—	0.83
MW-1	04/25/01	131.58	12.06	119.52	12,000	<20	<20	<20	<20	17,000	—	—	—	—	—	0.39
MW-1	07/24/01	131.58	12.42	119.16	8,800	<13	<13	<13	<13	14,000	—	—	—	—	—	7.61
MW-1	11/08/01	131.58	12.00	119.58	18,000	<25	<25	<25	<25	28,000	—	—	—	—	—	—
MW-1	11/27/01	134.13	Well resurveyed to new reference point													
MW-1	02/05/02	134.13	10.99	123.14	28,000	<50	<50	<50	<50	44,000	—	—	—	—	—	—
MW-1	04/29/02	134.13	10.97	123.16	12,000	<25	<25	<25	<25	30,000	—	—	—	—	—	—
MW-1	07/29/02	134.13	10.20	123.93	16,000	<25	<25	<25	<25	22,000	—	—	—	—	—	—
MW-1	10/21/02	134.13	10.48	123.65	17,000	<50	<50	<50	<50	39,000	—	—	—	—	—	—
MW-1	03/05/03	134.13	8.94	125.19	40,000	<100	<100	<100	<100	69,000	—	—	—	—	—	—
MW-1	06/06/03	134.13	8.68	125.45	27,000	<50	<50	<50	<50	63,000	—	—	—	—	—	—
MW-1	09/05/03	134.13	9.21	124.92	28,000	<25	<25	<25	<25	51,000	—	—	—	—	—	—
MW-1	12/24/03	134.13	8.65	125.48	29,000	<50	<50	<50	<50	84,000	—	—	—	—	—	—
MW-1	03/25/04	134.13	8.66	125.47	39,000	<100	<100	<100	<100	72,000	—	—	—	—	—	—
MW-1	06/25/04	134.13	8.66	125.47	50,000	<100	<100	<100	<100	90,000	—	—	—	—	—	—
MW-1	09/16/04	134.13	9.02	125.11	30,000	<50	<50	<50	<50	75,000	—	—	—	—	—	—
MW-1	12/17/04	134.13	7.46	126.67	35,000	<50	<50	<50	<50	59,000	—	—	—	—	—	—
MW-1	03/10/05	134.13	7.17	126.96	14,000	<25	<25	<25	<25	33,000	—	—	—	—	—	—
MW-1	06/09/05	134.13	8.14	125.99	36,000	<50	<50	<50	<50	60,000	—	—	—	—	—	—
MW-1	09/13/05	134.13	12.64	121.49	<20,000	<100	<100	<100	<100	32,000	—	—	—	—	—	—
MW-1	12/06/05	134.13	11.40	122.73	<5,000	<25	<25	<25	<25	5,700	—	—	—	—	—	—
MW-1	03/29/06	134.13	10.51	123.62	16,000	<25	<25	<25	<25	23,000	—	—	—	—	—	—
MW-1	06/29/06	134.13	11.28	122.85	8,200	<15	<15	<15	<15	12,000	<5.0	—	—	—	—	—
MW-1	09/21/06	134.13	11.90	122.23	4,500	<10	<10	<10	<10	7,900	<5.0	—	—	—	—	—
MW-1	12/08/06	134.13	11.65	122.48	3,900	<10	<10	<10	<10	4,100	<5.0	—	—	—	—	—
MW-1	03/28/07	134.13	11.22	122.91	5,000	<10	<10	<10	<10	7,700	<5.0	—	—	—	—	—
MW-1	06/14/07	134.13	12.18	121.95	3,600	<10	<10	<10	<10	4,300	<5.0	—	—	—	—	—
MW-1	09/06/07	134.13	12.84	121.29	3,400	<10	<10	<10	<10	4,500	<5.0	—	—	—	—	—
MW-1	12/31/07	134.13	12.52	121.61	2,900	<5.0	<5.0	<5.0	<5.0	3,300	<5.0	—	—	—	—	—
MW-1	03/18/08	134.13	12.74	121.39	1,800	<2.5	<2.5	<2.5	<2.5	3,400	<5.0	—	—	—	—	—
MW-1	06/30/08	134.13	13.00	121.13	1,400	<2.5	<2.5	<2.5	<2.5	2,400	<5.0	—	—	—	—	—
MW-1	09/26/08	134.13	13.77	120.36	1,100	<2.0	<2.0	<2.0	<2.0	2,200	<5.0	—	—	—	—	—
MW-1	11/25/08	134.13	13.57	120.56	1,300	<2.5	<2.5	<2.5	<2.5	2,000	<5.0	—	—	—	—	—
MW-1	03/09/09	134.13	11.09	123.04	1,100	<2.0	<2.0	<2.0	<2.0	1,600	<5.0	—	—	—	—	—
MW-1	06/29/09	134.13	11.33	122.80	430	<1.0	<1.0	<1.0	<1.0	730	<5.0	—	—	—	—	—
MW-1	09/11/09	134.13	11.01	123.12	880	<2.5	<2.5	<2.5	<2.5	980	<5.0	7,000	<5.0	<5.0	<5.0	—
MW-1	12/08/09	134.13	11.86	122.27	710	<2.5	<2.5	<2.5	<2.5	1,300	<5.0	9,900	<5.0	<5.0	<5.0	—
MW-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-1	06/09/11	134.13	9.09	125.04	240	<0.50	<0.50	<0.50	<0.50	500	<5.0	1,700	<1.0	<1.0	<1.0	—
MW-1	12/05/11	134.13	10.70	123.43	130	<0.50	<0.50	<0.50	<0.50	220	<5.0	370	<1.0	<1.0	<1.0	—
MW-1	06/19/12	134.13	7.30	126.83	<50	<0.50	<0.50	<0.50	<0.50	26	<5.0	61	<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-1	12/04/12	134.13	8.57	125.56	<50	<0.50	<0.50	<0.50	<0.50	23	<5.0	36	<1.0	<1.0	<1.0	—
MW-1	06/21/13	134.13	9.62	124.51	<50	<0.50	<0.50	<0.50	<0.50	8.4	<5.0	18	<1.0	<1.0	<1.0	—
MW-2	03/02/00	132.63	5.88	126.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	1.45
MW-2	11/16/00	132.63	6.40	126.23	<50	<0.5	<0.5	<0.5	<0.5	<1.0	—	—	—	—	—	1.67
MW-2	01/23/01	132.63	5.67	126.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	1.20
MW-2	04/25/01	132.63	6.26	126.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	0.76
MW-2	07/24/01	132.63	6.38	126.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	2.92
MW-2	11/08/01	132.63	5.97	126.66	<50	<0.50	<0.50	<0.50	<0.50	2.7	—	—	—	—	—	—
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	—

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	06/09/11	135.16	4.70	130.46	<50	<0.50	<0.50	<0.50	<0.50	0.92	<5.0	<10	<1.0	<1.0	<1.0	—
MW-2	12/05/11	135.16	5.48	129.68	<50	<0.50	<0.50	<0.50	<0.50	0.70	<5.0	<10	<1.0	<1.0	<1.0	—
MW-2	06/19/12	135.16	5.37	129.79	<50	<0.50	<0.50	<0.50	<0.50	0.67	<5.0	<10	<1.0	<1.0	<1.0	—
MW-2	12/04/12	135.16	5.35	129.81	<50	<0.50	<0.50	<0.50	<0.50	0.57	<5.0	<10	<1.0	<1.0	<1.0	—
MW-2	06/21/13	135.16	6.37	128.79	<50	<0.50	<0.50	<0.50	<0.50	0.60	<5.0	<10	<1.0	<1.0	<1.0	—
MW-3	03/02/00	133.78	6.41	127.37	<50	<0.50	<0.50	<0.50	<0.50	0.96	—	—	—	—	—	0.90
MW-3	11/16/00	133.78	6.46	127.32	<50	<0.5	<0.5	<0.5	<0.5	24	—	—	—	—	—	3.91
MW-3	01/23/01	133.78	5.75	128.03	<50	<0.50	<0.50	<0.50	<0.50	72	—	—	—	—	—	1.47
MW-3	04/25/01	133.78	5.90	127.88	<50	<0.50	<0.50	<0.50	<0.50	25	—	—	—	—	—	0.56
MW-3	07/24/01	133.78	6.56	127.22	<50	<0.50	0.79	0.73	0.68	5.2	—	—	—	—	—	6.67
MW-3	11/08/01	133.78	6.92	126.86	<50	<0.50	<0.50	<0.50	<0.50	14	—	—	—	—	—	—
MW-3	11/27/01	136.35	Well resurveyed to new reference point													
MW-3	02/05/02	136.35	5.13	131.22	<50	<0.50	<0.50	<0.50	<0.50	10	—	—	—	—	—	—
MW-3	04/29/02	136.35	5.67	130.68	<50	<0.50	<0.50	<0.50	<0.50	5.1	—	—	—	—	—	—
MW-3	07/29/02	136.35	6.11	130.24	<50	<0.50	<0.50	<0.50	<0.50	31	—	—	—	—	—	—
MW-3	10/21/02	136.35	6.57	129.78	<50	<0.50	<0.50	<0.50	<0.50	5.8	—	—	—	—	—	—
MW-3	03/05/03	136.35	5.02	131.33	<50	<0.50	<0.50	<0.50	<0.50	4.9	—	—	—	—	—	—
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	—

Table 1

Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	Ethanol (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	DO (mg/L)
MW-3	06/08/10	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-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	—
MW-3	06/09/11	136.35	4.67	131.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-3	12/05/11	136.35	5.91	130.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-3	06/19/12	136.35	5.70	130.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-3	12/04/12	136.35	4.88	131.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-3	06/21/13	136.35	6.71	129.64	<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-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	—
MW-4	06/09/11	133.59	4.44	129.15	320	<0.50	<0.50	<0.50	<0.50	2.0	<5.0	350	<1.0	<1.0	<1.0	—
MW-4	12/05/11	133.59	5.48	128.11	510	<0.50	<0.50	<0.50	0.69	2.3	<5.0	790	<1.0	<1.0	4.2	—
MW-4	06/19/12	133.59	5.23	128.36	140	<0.50	<0.50	<0.50	<0.50	1.4	<5.0	300	<1.0	<1.0	<1.0	—
MW-4	12/04/12	133.59	4.53	129.06	460	<0.50	<0.50	<0.50	0.90	2.3	<5.0	400	<1.0	<1.0	<1.0	—
MW-4	06/21/13	133.59	6.57	127.02	580	0.63	<0.50	<0.50	<0.50	4.0	<5.0	1,500	<1.0	<1.0	<1.0	—
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	—
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-5	06/09/11	133.58	5.54	128.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	12/05/11	133.58	7.00	126.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	06/19/12	133.58	6.97	126.61	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	12/04/12	133.58	5.00	128.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<1.0	<1.0	<1.0	—
MW-5	06/21/13	133.58	8.55	125.03	<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-6	06/09/11	128.83	5.66	123.17	<50	<0.50	<0.50	<0.50	<0.50	39	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	12/05/11	128.83	6.34	122.49	<50	<0.50	<0.50	<0.50	<0.50	21	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	06/19/12	128.83	6.10	122.73	<50	<0.50	<0.50	<0.50	<0.50	16	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	12/04/12	128.83	6.52	122.31	<50	<0.50	<0.50	<0.50	<0.50	6.6	<5.0	<10	<1.0	<1.0	<1.0	—
MW-6	06/21/13	128.83	7.58	121.25	<50	<0.50	<0.50	<0.50	<0.50	3.5	<5.0	33	<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	—

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-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	—
MW-7	06/09/11	134.37	8.69	125.68	<50	<0.50	<0.50	<0.50	<0.50	51	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	12/05/11	134.37	9.54	124.83	<50	<0.50	<0.50	<0.50	<0.50	59	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	06/19/12	134.37	9.25	125.12	59	<0.50	<0.50	<0.50	<0.50	70	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7	12/04/12	134.37	10.63	123.74	84	<0.50	<0.50	<0.50	<0.50	120	<5.0	<10	<1.0	<1.0	<1.0	—
MW-7*	06/21/13	134.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
* = well inaccessible

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 **a**re 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: R. RODRIGUEZ Job #/Task #: 201892 Date: 6/21/13

Site # QUIKSTOP 56 Project Manager 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-6	✓	0645	19.65	7.58	—	—	1042	2"
MW-5	✓	0653	10.18	8.55	—	—	0820	2"
MW-1	✓	0705	29.93	9.62	—	—	1053	2"
MW-3	✓	0709	30.23	6.71	—	—	1105	2"
MW-2	✓	0714	29.83	6.37	—	—	1120	2"
MW-4	✓	0944	14.68	6.57	—	—	1005	2"
MW-7	—	—	—	—	—	—	N/S	INACCESSIBLE (BEHIND LOCKED GATE)

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. RODRIGUEZ

Site: QUIKSTOP 56 Project No.: 201892 Date: 6/21/13

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 7.58 Depth to Product (feet): —

Total Depth (feet) 19.65 LPH & Water Recovered (gallons): —

Water Column (feet): 12.07 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 9.99 1 Well Volume (gallons): 2

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0802			2	851.2	17.3	7.54			
			4	867.4	18.3	7.21			
	0806		6	870.2	18.6	7.16			

Static at Time Sampled	Total Gallons Purged	Sample Time
7.92	6	1042

Comments: DRY AT 6 GALLONS. SLOW RECOVERY.

Well No. MW-5 Purge Method: HB

Depth to Water (feet): 8.55 Depth to Product (feet): —

Total Depth (feet) 10.18 LPH & Water Recovered (gallons): —

Water Column (feet): 1.63 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.87 1 Well Volume (gallons): 0.30

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0816			0.30	341.9	19.4	6.78			
			0.60	331.9	19.4	6.65			
	0819		0.90	327.0	19.4	6.49			

Static at Time Sampled	Total Gallons Purged	Sample Time
8.87	0.90	0830

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. RODRIGUEZ

Site: QUIKSTOP 56 Project No.: 201892 Date: 6/21/13

Well No. MW-3 Purge Method: Sub

Depth to Water (feet): 6.71 Depth to Product (feet): —

Total Depth (feet) 30.23 LPH & Water Recovered (gallons): —

Water Column (feet): 23.52 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 11.41 1 Well Volume (gallons): 4

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0859			4	884.4	20.2	6.65			
			8	946.0	20.5	6.49			
	0906		12	954.0	20.4	6.55			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.93	12	1105

Comments:

Well No. MW-2 Purge Method: Sub

Depth to Water (feet): 6.37 Depth to Product (feet): —

Total Depth (feet) 29.83 LPH & Water Recovered (gallons): —

Water Column (feet): 23.46 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 11.06 1 Well Volume (gallons): 4

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0929			4	1222	20.7	7.17			
			8	1237	20.9	6.65			
	0934		12	1200	20.5	6.54			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.78 ~~6.93~~ RR	12	1120

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Rodriguez

Site: Quikstop 56 Project No.: 201892 Date: 6/21/13

Well No. MW-4 Purge Method: ~~Sub~~ HB

Depth to Water (feet): 6.57 Depth to Product (feet): —

Total Depth (feet) 14.68 LPH & Water Recovered (gallons): —

Water Column (feet): 8.11 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.19 1 Well Volume (gallons): 1

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0950			1	792.7	21.9	6.90			
			2	791.1	21.7	6.50			
	0955		3	793.0	21.4	6.47			

Static at Time Sampled	Total Gallons Purged	Sample Time
7.39	3	1005

Comments:

Well No. MW-1 Purge Method: Sub

Depth to Water (feet): 9.62 Depth to Product (feet): —

Total Depth (feet) 29.93 LPH & Water Recovered (gallons): —

Water Column (feet): 20.31 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 13.68 1 Well Volume (gallons): 4

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0841			4	906.2	19.4	6.21			
			8	952.1	20.5	6.20			
	0849		12	980.8	20.4	6.30			

Static at Time Sampled	Total Gallons Purged	Sample Time
13.03	12	1055

Comments:

TRC

METER CALIBRATION LOG

CLIENT NAME: _____

SITE #: QUIKSTOP 56

LOCATION: OAKLAND

METER BRAND NAME: ULTRAMETER

METER MODEL #: 6219185

ALTON METER #: ~~09~~ 0451

CALIBRATION STANDARD EXP. DATE: 12/13

CALIBRATED BY: R. RODRIGUEZ

DATE: 6/21/13

METER BRAND NAME: —

METER MODEL #: —

ALTON METER #: —

CALIBRATION STANDARD EXP. DATE: —

SITE INITIAL CALIBRATION		
	Standard	Final Calibrated Values
pH	4.00	3.99
pH	7.00	7.00
pH	10.00	10.02
Conductivity	~~1000~~ 1413	1413
Conductivity	10000	—
Turbidity	1.0	—
Turbidity	10.0	—

POST SAMPLING STANDARD MEASUREMENTS		
	Standard	Measured Values
pH	4.00	
pH	7.00	
pH	10.00	
Conductivity	1000	
Conductivity	10000	
Turbidity	1.0	
Turbidity	10.0	

REMARKS:

SIGNATURE: _____

DRUM INVENTORY FIELD SHEET

CLIENT: Quikstop 56

PROJECT NUMBER: 201892 **DATE:** 6/21/13

SITE #: Quikstop 56

ADDRESS: 3132 Beaumont Ave

CITY: Oakland

ACTIVE STATION: Yes X No

DRUMS EMPTY: _____ **DRUMS FULL:** 3

DRUMS LABELED: Yes X No

TOTAL GALLONS GENERATED: 140 GAL 46 GALS PURGE WATER 94 GALS DECON

DRUMS LEFT ONSITE: Yes X No

SPECIAL INSTRUCTIONS: 3 DRUMS LEFT BEHIND Building WHERE specified ON THE MAP

Technician: D. Rodriguez

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

TRC-Alton Geoscience
One Concord Center
Concord, CA 94520

Attn: Jonathan Scheiner
Phone: (925) 688-2473
Fax: (925) 688-0388
Date Received : 06/25/13

Job: 201892/QUIKSTOP

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-6**				
Lab ID : TRC13062544-01A Ethanol	ND	5.0 µg/L	06/27/13	06/27/13
Date Sampled 06/21/13 10:42				
Client ID: **MW-5**				
Lab ID : TRC13062544-02A Ethanol	ND	5.0 µg/L	06/27/13	06/27/13
Date Sampled 06/21/13 08:30				
Client ID: **MW-1**				
Lab ID : TRC13062544-03A Ethanol	ND	5.0 µg/L	06/27/13	06/27/13
Date Sampled 06/21/13 10:53				
Client ID: **MW-3**				
Lab ID : TRC13062544-04A Ethanol	ND	5.0 µg/L	06/27/13	06/27/13
Date Sampled 06/21/13 11:05				
Client ID: **MW-2**				
Lab ID : TRC13062544-05A Ethanol	ND	5.0 µg/L	06/27/13	06/27/13
Date Sampled 06/21/13 11:20				
Client ID: **MW-4**				
Lab ID : TRC13062544-06A Ethanol	ND	5.0 µg/L	06/27/13	06/27/13
Date Sampled 06/21/13 10:05				

ND = Not Detected

ACLASS ACCREDITED DoD ELAP

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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
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.

7/8/13
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

TRC-Alton Geoscience
One Concord Center
Concord, CA 94520

Attn: Jonathan Scheiner
Phone: (925) 688-2473
Fax: (925) 688-0388
Date Received : 06/25/13

Job: 201892/QUIKSTOP

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**MW-6**					
Lab ID :	TRC13062544-01A	TPH-P (GRO)	ND	0.050 mg/L	07/02/13	07/02/13
Date Sampled	06/21/13 10:42	Tertiary Butyl Alcohol (TBA)	33	10 µg/L	07/02/13	07/02/13
		Methyl tert-butyl ether (MTBE)	3.5	0.50 µg/L	07/02/13	07/02/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/02/13	07/02/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/02/13	07/02/13
		Benzene	ND	0.50 µg/L	07/02/13	07/02/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/02/13	07/02/13
		Toluene	ND	0.50 µg/L	07/02/13	07/02/13
		Ethylbenzene	ND	0.50 µg/L	07/02/13	07/02/13
		Xylenes, Total	ND	0.50 µg/L	07/02/13	07/02/13
Client ID :	**MW-5**					
Lab ID :	TRC13062544-02A	TPH-P (GRO)	ND	0.050 mg/L	07/02/13	07/02/13
Date Sampled	06/21/13 08:30	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/02/13	07/02/13
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/02/13	07/02/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/02/13	07/02/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/02/13	07/02/13
		Benzene	ND	0.50 µg/L	07/02/13	07/02/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/02/13	07/02/13
		Toluene	ND	0.50 µg/L	07/02/13	07/02/13
		Ethylbenzene	ND	0.50 µg/L	07/02/13	07/02/13
		Xylenes, Total	ND	0.50 µg/L	07/02/13	07/02/13
Client ID :	**MW-1**					
Lab ID :	TRC13062544-03A	TPH-P (GRO)	ND	0.050 mg/L	07/02/13	07/02/13
Date Sampled	06/21/13 10:53	Tertiary Butyl Alcohol (TBA)	18	10 µg/L	07/02/13	07/02/13
		Methyl tert-butyl ether (MTBE)	8.4	0.50 µg/L	07/02/13	07/02/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/02/13	07/02/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/02/13	07/02/13
		Benzene	ND	0.50 µg/L	07/02/13	07/02/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/02/13	07/02/13
		Toluene	ND	0.50 µg/L	07/02/13	07/02/13
		Ethylbenzene	ND	0.50 µg/L	07/02/13	07/02/13
		Xylenes, Total	ND	0.50 µg/L	07/02/13	07/02/13

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Client ID :	**MW-3**					
Lab ID :	TRC13062544-04A	TPH-P (GRO)	ND	0.050 mg/L	07/01/13	07/01/13
Date Sampled	06/21/13 11:05	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/01/13	07/01/13
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/01/13	07/01/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/01/13	07/01/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/01/13	07/01/13
		Benzene	ND	0.50 µg/L	07/01/13	07/01/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/01/13	07/01/13
		Toluene	ND	0.50 µg/L	07/01/13	07/01/13
		Ethylbenzene	ND	0.50 µg/L	07/01/13	07/01/13
		Xylenes, Total	ND	0.50 µg/L	07/01/13	07/01/13
Client ID :	**MW-2**					
Lab ID :	TRC13062544-05A	TPH-P (GRO)	ND	0.050 mg/L	07/01/13	07/01/13
Date Sampled	06/21/13 11:20	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/01/13	07/01/13
		Methyl tert-butyl ether (MTBE)	0.60	0.50 µg/L	07/01/13	07/01/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/01/13	07/01/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/01/13	07/01/13
		Benzene	ND	0.50 µg/L	07/01/13	07/01/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/01/13	07/01/13
		Toluene	ND	0.50 µg/L	07/01/13	07/01/13
		Ethylbenzene	ND	0.50 µg/L	07/01/13	07/01/13
		Xylenes, Total	ND	0.50 µg/L	07/01/13	07/01/13
Client ID :	**MW-4**					
Lab ID :	TRC13062544-06A	TPH-P (GRO)	0.58	0.10 mg/L	07/01/13	07/01/13
Date Sampled	06/21/13 10:05	Tertiary Butyl Alcohol (TBA)	1,500	10 µg/L	07/01/13	07/01/13
		Methyl tert-butyl ether (MTBE)	4.0	0.50 µg/L	07/01/13	07/01/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/01/13	07/01/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/01/13	07/01/13
		Benzene	0.63	0.50 µg/L	07/01/13	07/01/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/01/13	07/01/13
		Toluene	ND	0.50 µg/L	07/01/13	07/01/13
		Ethylbenzene	ND	0.50 µg/L	07/01/13	07/01/13
		Xylenes, Total	ND	0.50 µg/L	07/01/13	07/01/13

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

ACCREDITED DoD ELAP

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) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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7/8/13

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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

VOC Sample Preservation Report

Work Order: TRC13062544 **Job:** 201892/QUIKSTOP

Alpha's Sample ID	Client's Sample ID	Matrix	pH
13062544-01A	MW-6	Aqueous	2
13062544-02A	MW-5	Aqueous	2
13062544-03A	MW-1	Aqueous	2
13062544-04A	MW-3	Aqueous	2
13062544-05A	MW-2	Aqueous	2
13062544-06A	MW-4	Aqueous	2

7/8/13

Report Date

Alpha Analytical, Inc.

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

Date: *03-Jul-13*

QC Summary Report

Work Order: 13062544

Method Blank

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

File ID: **C:\HPCHEM\MS11\DATA\130627\13062707.D** Batch ID: **31171** Analysis Date: **06/27/2013 16:52**

Sample ID: **MBLK-31171** Units : **µg/L** Run ID: **MSD_11_130627A** Prep Date: **06/27/2013 14:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	ND	5								
Surr: Hexafluoro-2-propanol	562		500		112	58	133			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS11\DATA\130627\13062708.D** Batch ID: **31171** Analysis Date: **06/27/2013 17:11**

Sample ID: **LCS-31171** Units : **µg/L** Run ID: **MSD_11_130627A** Prep Date: **06/27/2013 14:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	254	5	250		102	66	152			
Surr: Hexafluoro-2-propanol	573		500		115	58	133			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS11\DATA\130627\13062710.D** Batch ID: **31171** Analysis Date: **06/27/2013 17:49**

Sample ID: **13062544-01AMS** Units : **µg/L** Run ID: **MSD_11_130627A** Prep Date: **06/27/2013 14:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	259	5	250	0	104	63	152			
Surr: Hexafluoro-2-propanol	563		500		113	58	133			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS11\DATA\130627\13062711.D** Batch ID: **31171** Analysis Date: **06/27/2013 18:09**

Sample ID: **13062544-01AMSD** Units : **µg/L** Run ID: **MSD_11_130627A** Prep Date: **06/27/2013 14:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Ethanol	230	5	250	0	92	63	152	259.5	12.0(26)	
Surr: Hexafluoro-2-propanol	561		500		112	58	133			

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.

Alpha Analytical, Inc.

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

Date: *03-Jul-13*

QC Summary Report

Work Order: 13062544

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **13070110.D** Batch ID: **MS12W0701B** Analysis Date: **07/01/2013 19:35**

Sample ID: **MBLK MS12W0701B** Units : **mg/L** Run ID: **MSD_12_130701A** Prep Date: **07/01/2013 19:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.06	0.05								
Surr: 1,2-Dichloroethane-d4	0.0121		0.01		121	70	130			
Surr: Toluene-d8	0.0116		0.01		116	70	130			
Surr: 4-Bromofluorobenzene	0.00869		0.01		87	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **13070109.D** Batch ID: **MS12W0701B** Analysis Date: **07/01/2013 19:08**

Sample ID: **GLCS MS12W0701B** Units : **mg/L** Run ID: **MSD_12_130701A** Prep Date: **07/01/2013 19:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.433	0.05	0.4		93	70	130			
Surr: 1,2-Dichloroethane-d4	0.0101		0.01		101	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00964		0.01		96	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **13070124.D** Batch ID: **MS12W0701B** Analysis Date: **07/02/2013 00:40**

Sample ID: **13062725-01AGS** Units : **mg/L** Run ID: **MSD_12_130701A** Prep Date: **07/02/2013 00:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.81	0.25	2	0	91	54	143			
Surr: 1,2-Dichloroethane-d4	0.0505		0.05		101	70	130			
Surr: Toluene-d8	0.052		0.05		104	70	130			
Surr: 4-Bromofluorobenzene	0.0477		0.05		95	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **13070125.D** Batch ID: **MS12W0701B** Analysis Date: **07/02/2013 01:01**

Sample ID: **13062725-01AGSD** Units : **mg/L** Run ID: **MSD_12_130701A** Prep Date: **07/02/2013 01:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.79	0.25	2	0	90	54	143	1.815	1.2(23)	
Surr: 1,2-Dichloroethane-d4	0.0477		0.05		95	70	130			
Surr: Toluene-d8	0.0525		0.05		105	70	130			
Surr: 4-Bromofluorobenzene	0.0509		0.05		102	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.

Alpha Analytical, Inc.

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

Date: *03-Jul-13*

QC Summary Report

Work Order: 13062544

Method Blank

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

File ID: **13070110.D** Batch ID: **MS12W0701A** Analysis Date: **07/01/2013 19:35**

Sample ID: **MBLK MS12W0701A** Units : **µg/L** Run ID: **MSD_12_130701A** Prep Date: **07/01/2013 19:35**

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	12.1		10		121	70	130			
Surr: Toluene-d8	11.6		10		116	70	130			
Surr: 4-Bromofluorobenzene	8.69		10		87	70	130			

Laboratory Control Spike

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

File ID: **13070107.D** Batch ID: **MS12W0701A** Analysis Date: **07/01/2013 18:11**

Sample ID: **LCS MS12W0701A** Units : **µg/L** Run ID: **MSD_12_130701A** Prep Date: **07/01/2013 18:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.5	0.5	10		105	63	137			
Benzene	9.44	0.5	10		94	70	130			
Toluene	10.1	0.5	10		101	80	120			
Ethylbenzene	9.3	0.5	10		93	80	120			
Xylenes, Total	19	0.5	20		95	70	130			
Surr: 1,2-Dichloroethane-d4	6.31		10		63	70	130			S54
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	8.94		10		89	70	130			

Sample Matrix Spike

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

File ID: **13070122.D** Batch ID: **MS12W0701A** Analysis Date: **07/01/2013 23:57**

Sample ID: **13062441-06AMS** Units : **µg/L** Run ID: **MSD_12_130701A** Prep Date: **07/01/2013 23:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	43	1.3	50	0	86	56	140			
Benzene	41.5	1.3	50	0	83	67	134			
Toluene	50.1	1.3	50	0	100	38	130			
Ethylbenzene	44.6	1.3	50	0	89	70	130			
Xylenes, Total	90.7	1.3	100	0	91	70	130			
Surr: 1,2-Dichloroethane-d4	44.5		50		89	70	130			
Surr: Toluene-d8	47.8		50		96	70	130			
Surr: 4-Bromofluorobenzene	44.2		50		88	70	130			

Sample Matrix Spike Duplicate

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

File ID: **13070123.D** Batch ID: **MS12W0701A** Analysis Date: **07/02/2013 00:19**

Sample ID: **13062441-06AMSD** Units : **µg/L** Run ID: **MSD_12_130701A** Prep Date: **07/02/2013 00:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	49.9	1.3	50	0	99.8	56	140	42.96	15.0(40)	
Benzene	46.4	1.3	50	0	93	67	134	41.54	11.0(21)	
Toluene	54.4	1.3	50	0	109	38	130	50.07	8.4(20)	
Ethylbenzene	49.3	1.3	50	0	99	70	130	44.6	9.9(20)	
Xylenes, Total	98.4	1.3	100	0	98	70	130	90.65	8.2(22)	
Surr: 1,2-Dichloroethane-d4	45.7		50		91	70	130			
Surr: Toluene-d8	48.3		50		97	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	70	130			

Alpha Analytical, Inc.

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

Date: *03-Jul-13*

QC Summary Report

Work Order: 13062544

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.

S54 = Surrogate recovery was below laboratory acceptance limits.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : TRC13062544

Report Due By : 5:00 PM On : 09-Jul-13

Client:
TRC-Alton Geoscience
One Concord Center
2300 Clayton Rd., Ste. 610
Concord, CA 94520

Report Attention	Phone Number	EMail Address
Jonathan Scheiner	(925) 688-2473 x 236	jscheiner@trcsolutions.com

EDD Required : **Yes**

Sampled by : Rick Rodriguez

PO : 24004

Client's COC # : 13662 Job : 201892/QUIKSTOP

Cooler Temp	Samples Received	Date Printed
5 °C	25-Jun-13	25-Jun-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests								Sample Remarks
							ALCOHOL_W	TPH/P_W	VOC_W						
TRC13062544-01A	MW-6	AQ	06/21/13 10:42	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C						
TRC13062544-02A	MW-5	AQ	06/21/13 08:30	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C						
TRC13062544-03A	MW-1	AQ	06/21/13 10:53	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C						
TRC13062544-04A	MW-3	AQ	06/21/13 11:05	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C						
TRC13062544-05A	MW-2	AQ	06/21/13 11:20	6	0	10	Low Level EtOH	GAS-C	BTEX/OXY_C						
TRC13062544-06A	MW-4	AQ	06/21/13 10:05	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
Logged in by:		Sarah Nen	Alpha Analytical, Inc.	6/25/13 1217

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: 2300 CLAYTON
City, State, Zip: CONCORD, CA. 94520
Phone Number: 925-688-1200 Fax: 925-688-0388

Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 Phone: 775-355-1044 Fax: 775-355-0406

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Phone: 916-366-9089
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

13662

Page # 1 of 1

~~Consultant/Client Info:~~ SITE INFO

Company: QUIKSTOP 56
Address: 3132 BEAUMONT AVE
City, State, Zip: OAKLAND, CA

Job and Purchase Order Info:

Job #: 201892
Job Name: QUIKSTOP
P.O. #: 24004

Report Attention/Project Manager:

Name: JONATHAN SCHEINER
Email Address: JSCHEINER@TRCSolutions.com
Phone #: 925-688-1200
Cell #: 925-360-4809

QC Deliverable Info:

EDD Required? Yes / No EDF Required? (Yes) / No
Global ID:
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: TPH-G by 8260B	Analysis Requested: BTEX/MTBE/5 oxys by 8260B	Analysis Requested: ETHANOL by 8260B	Remarks
1042	6/21	AQ	TRC80025441-01A	MW-6	STD	N	6	X	X	X	
0830	↓	↓	02A	MW-5	↓	↓	↓	↓	↓	↓	
1053			03A	MW-1							
1105			04A	MW-3							
1120			05A	MW-2							
1005	↓	↓	06A	MW-4	↓	↓	↓	↓	↓	↓	

ADDITIONAL INSTRUCTIONS:

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 445.0636 (c) (2).

Sampled By: Rick Poppiglieri

	Date	Time		Date	Time
Relinquished by: (Signature/Affiliation):	6/21/13	1400	Received by: (Signature/Affiliation): SHIPPED IN COOLER ON FED	6/21/13	1400
Relinquished by: (Signature/Affiliation):			Received by: (Signature/Affiliation): Alpha	6/25/13	1200
Relinquished by: (Signature/Affiliation):			Received by: (Signature/Affiliation):		

* 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.