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11:41 am, Jul 28, 2011

Alameda County
Environmental Health

Mr. Paresh Khatri
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577


Re: Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California
(ACEHS Case No. RO0000175)

Dear Mr. Khatri:

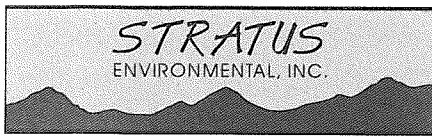
Stratus Environmental, Inc. (Stratus) has recently prepared a *Groundwater Monitoring Report, Second Quarter 2011* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000175, located at 6600 Foothill Boulevard, Oakland, California.

I have reviewed a copy of this report, sent to me by representatives of Stratus, and “I declare, under penalty of perjury, that the information and or/recommendations contained in the attached document or report is true and correct to the best of my knowledge.”

Sincerely,



Ravi Sekhon



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

July 25, 2011
Project No. 2087-6600-01

Mr. Paresh Khatri
Alameda County
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Groundwater Monitoring Report, Second Quarter 2011, for Foothill Mini Mart, located at 6600 Foothill Boulevard, Oakland, California (ACEHD Case No. RO0000175)

Dear Mr. Khatri:

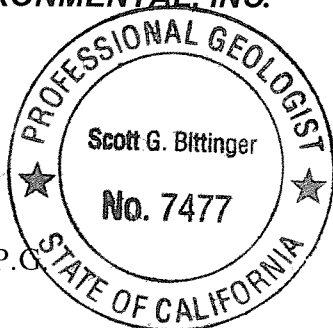
Stratus Environmental, Inc. (Stratus) is submitting the attached report, on behalf of Mr. Ravi Sekhon, to document the findings of a groundwater monitoring and sampling event conducted during the second quarter 2011 at the Foothill Mini Mart, located at 6600 Foothill Boulevard, Oakland, California (Figure 1). This report has been prepared in compliance with Alameda County Environmental Health Department (ACEHD) requirements for underground storage tank (UST) investigations.

If you have any questions regarding this report, please contact Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Scott G. Bittinger, P.C.
Project Manager



Gowri S. Kowtha, P.E.
Principal Engineer

Attachment: Semi-Annual Groundwater Monitoring Report, Second Quarter 2011

cc: Mr. Ravi Sekhon
Mr. and Ms. Joseph and Maude LeBlanc

**FOOTHILL MINI MART
SEMI-ANNUAL GROUNDWATER MONITORING REPORT**

Facility Address: 6600 Foothill Boulevard, California
 Consulting Co./Contact Person: Stratus Environmental, Inc. / Scott Bittinger, P.G.
 Consultant Project No: 2087-6600-01
 Primary Agency/Regulatory ID No: Alameda County Environmental Health Department (ACEHD) / Case No. RO0000175

WORK PERFORMED THIS PERIOD (Second Quarter 2011):

1. Stratus directed the installation of one extraction well (EX-1) two nested injection wells (IW-1A/B and IW-2A/B) and two soil vapor monitoring wells (SGW-1 and SGW-2) in April 2011. A *Well Installation Report* was submitted to ACEHD on April 28, 2011 to document the activities and findings associated with this work.
2. A dual phase extraction (DPE) pilot test was performed between April 26 and 28, 2011.
3. On May 26, 2011, Stratus conducted second quarter 2011 groundwater monitoring and sampling activities at the site. During this event, monitoring wells MW-1 through MW-7, MW-10, MW-11, MW-12A, MW-13A, MW-5B, MW-6B, MW-12B and EX-1 were gauged for depth to water and evaluated for the presence of free product. Following gauging, samples were collected and forwarded to a state-certified analytical laboratory for analysis.
4. Stratus initiated an in-situ chemical oxidation (ISCO) remediation pilot test on May 26, 2011, following the well sampling event. Injection of ozone and hydrogen peroxide into the subsurface were used to complete ISCO in the shallow saturated interval. Field measurements and analytical data from the second quarter 2011 well sampling event were also used to provide the pre-ISCO pilot test baseline groundwater analytical data set. The ISCO pilot test terminated on June 28, 2011.
5. Stratus compiled and evaluated groundwater analytical data.

WORK PROPOSED FOR NEXT PERIOD (Third Quarter 2011):

1. Stratus will conduct a post-ISCO groundwater monitoring and sampling event at select wells (EX-1, MW-2, MW-4, MW-5, MW-6, and MW-10), which will be the final field activities associated with this pilot study.
2. Reports will be prepared to document the findings of the DPE and ISCO pilot tests.

Current Phase of Project: Monitoring/Assessment; Remediation Pilot Testing
 Frequency of Groundwater Sampling: Wells MW-1 through MW-6, MW-7, MW-10, MW-11, MW-12A, MW-13A, MW-5B, MW-6B, MW-12B and EX-1: Semi-Annually (note: EX-1 will not be gauged/sampled following the ISCO pilot test unless otherwise directed by ACEHD).
 Frequency of Groundwater Monitoring: All Wells : Semi-Annually

Groundwater Sampling Date:	May 26, 2011
Is Free Product (FP) Present on Site:	No
Approx. Depth to Groundwater (Upper):	5.73 to 11.15 feet below top of well casing
Approx. Depth to Groundwater (Lower):	12.51 to 36.70 feet below top of well casing
Groundwater Flow Direction (Upper):	Westerly
Approximate Groundwater Gradient (Upper):	0.04 to 0.06 ft/ft
Groundwater Flow Direction (Lower):	Not calculated
Approximate Groundwater Gradient (Lower):	Not calculated

DISCUSSION:

On May 26, 2011, Stratus conducted semi-annual groundwater monitoring and sampling activities at the site. During this event, wells MW-1 through MW-7, MW-10, MW-11, MW-12A, MW-13A, MW-5B, MW-6B, MW-12B and EX-1 were monitored, purged and sampled. Groundwater samples were analyzed at a state-certified analytical laboratory for gasoline range organics (GRO) by EPA Method SW8015B/DHS LUFT Manual, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary butyl alcohol (TBA), ethanol, and methanol by EPA Method SW8260B. Field data sheets, sampling procedures and laboratory analytical reports are included as Appendices A, B, and C, respectively. Analytical results of sampled wells and depth to groundwater measurements have been uploaded to the State of California's GeoTracker database. Documentation of these data uploads is attached in Appendix D.

Shallow Screened Well Network

Depth to groundwater in the monitoring wells ranged from 5.73 to 11.15 feet below the top of the well casing. Depth-to-water measurements were converted to feet above mean sea level (MSL) and used to construct a groundwater elevation contour map (Figure 2). A westerly groundwater flow was observed in the site vicinity, using the May 26, 2011 groundwater level measurements, with groundwater gradients ranging from approximately 0.04 to 0.06 ft/ft. This appears consistent with historical data.

Groundwater beneath the site is impacted with GRO, BTEX, MTBE, and TBA. During the second quarter 2011 sampling event, GRO was detected in eight of the twelve sampled wells (MW-1, MW-3, MW-4, MW-5, MW-6, MW-12A, MW-13A and EX-1), with a maximum concentration reported in offsite downgradient well MW-6 (5,500 micrograms per liter [$\mu\text{g/L}$]). Benzene was only detected in the well MW-6 sample (54 $\mu\text{g/L}$). MTBE was reported in eleven of the twelve sampled wells with a concentration range between 2.8 $\mu\text{g/L}$ (MW-7) and 730 $\mu\text{g/L}$ (EX-1). Figures 4 through 7 illustrate the interpreted lateral extent of GRO, benzene, MTBE, and TBA distribution in shallow groundwater, respectively, using data collected on May 26, 2011. The results of second quarter 2011 well sampling, and the general configuration of the plumes depicted on Figures 4 through 7, are generally consistent with the findings of previous work.

Deeper Screened Well Network

Depth to groundwater in the monitoring wells ranged from 12.51 to 36.70 feet below the top of the well casing. Groundwater elevations are depicted on Figure 3. Given the large discrepancy in groundwater elevations measured in the three deeper screened monitoring wells, an evaluation of groundwater flow direction at this depth in the subsurface does not appear appropriate using the current data set.

Analytical results of GRO, benzene, MTBE, and TBA for groundwater samples collected from the deeper

screened wells during the second quarter 2011 are presented on Figure 8. Very low concentrations of MTBE were detected in the samples collected from wells MW-5B (3.2 µg/L) and MW-12B (0.80 µg/L) during the second quarter 2011. Concentrations of other analytes were below laboratory instrument detection limits. Given the available data set, the vertical extent of contaminant distribution in groundwater appears adequately characterized.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Summary
- Table 2 Groundwater Analytical Results for Oxygenates and Additives
- Table 3 Well Construction Detail Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map, Shallow Screened Wells (Second Quarter 2011)
- Figure 3 Groundwater Elevation Map, Deep Screened Wells (Second Quarter 2011)
- Figure 4 GRO Iso-Concentration Contour Map, Shallow Screened Wells (Second Quarter 2011)
- Figure 5 Benzene Iso-Concentration Contour Map, Shallow Screened Wells (Second Quarter 2011)
- Figure 6 MTBE Iso-Concentration Contour Map, Shallow Screened Wells (Second Quarter 2011)
- Figure 7 TBA Iso-Concentration Contour Map, Shallow Screened Wells (Second Quarter 2011)
- Figure 8 Groundwater Analytical Summary, Deep Screened Wells (Second Quarter 2011)
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Information

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl) [1]	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
SHALLOW WELLS										
MW-1	06/13/01	9.36	100*	90.64	ND	ND	ND	ND	ND	130
	03/21/02	7.96	100*	92.04	95	ND	ND	ND	ND	72.5
	07/09/02	8.51	100*	91.49	ND	ND	ND	ND	ND	208
	07/11/03	8.66	160.25	151.59	ND	0.7	ND	ND	1.2	636
	11/13/03	8.10	160.25	152.15	<5,000	ND	ND	ND	ND	72,000
	02/19/04	8.24	160.25	152.01	1,350	460	ND	ND	ND	82,000
	05/21/04	8.51	160.25	151.74	ND	<50	<50	<50	<100	12,000
	08/11/05	8.34	160.25	151.91	ND	ND	ND	ND	ND	4,900
	11/30/05	9.86	160.25	150.39	<250	<2.5	<2.5	<2.5	<2.5	8,400
	08/08/08	10.62	60.02	49.40	390	<1.5	<1.5	<1.5	<1.5	720
	11/05/08	10.78	60.02	49.24	350	<5.0	<10	<10	<10	580
	02/06/09	9.05	60.02	50.97	150	<1.5	<1.5	<1.5	<1.5	610
	05/07/09	6.76	60.02	53.26	420	<0.50	<0.50	<0.50	<0.50	210
	06/01/10	7.58	60.02	52.44	190	<0.50	<0.50	<0.50	<0.50	170
	09/07/10	11.33	60.02	48.69			Not Scheduled for Sampling			
	12/08/10	10.61	60.02	49.41	150	<0.50	<0.50	<0.50	<0.50	300
05/26/11	8.51	60.02	51.51	57	<0.50	<0.50	<0.50	<0.50	100	
MW-2	06/13/01	10.44	98.71*	88.27	5,800	160	210	290	980	94,000
	03/21/02	8.18	98.71*	90.53	452	3.4	ND	1.6	2.1	79,100
	07/09/02	8.35	98.71*	90.36	497	61.6	ND	ND	1.6	37,600
	07/11/03	7.58	158.97	151.39	553	48.9	ND	ND	ND	38,200
	11/13/03	8.01	158.97	150.96	<2,500	NS	ND	ND	ND	47,000
	02/19/04	6.43	158.97	152.54	4,390	410	265	160	490	26,700
	05/21/04	6.83	158.97	152.14	1,150	254	<200	<200	<400	24,600
	08/11/05	7.31	158.97	151.66	91	ND	1.1	ND	ND	6,500
	11/30/05	7.98	158.97	150.99	69	ND	1.4	ND	ND	2,300
	08/08/08	7.19	58.74	51.55	300	<9.0	<9.0	<9.0	<9.0	9.8
	11/05/08	7.14	58.74	51.60	510	<0.50	<1.0	<1.0	<1.0	12
	02/06/09	6.92	58.74	51.82	50	<4.0	<4.0	<4.0	<4.0	10
	05/07/09	6.53	58.74	52.21	860	<4.0	<4.0	<4.0	<4.0	9.7
	06/01/10	9.15	58.74	49.59	<1,000 [3]	<5.0 [3]	<5.0 [3]	<5.0 [3]	<5.0 [3]	69
	09/07/10	9.69	58.74	49.05			Not Scheduled for Sampling			
	12/08/10	8.34	58.74	50.40	<1,000 [3]	<5.0 [3]	<5.0 [3]	<5.0 [3]	<5.0 [3]	21
05/26/11	10.51	58.74	48.23	<500[3]	<2.5[3]	<2.5[3]	<2.5[3]	<2.5[3]	27	

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl) [1]	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
MW-3	06/13/01	9.69	99.90*	90.21	300	1	ND	0.07	2	450	
	03/21/02	8.80	99.90*	91.10	274	1.1	ND	1	2.5	7,520	
	07/09/02	9.33	99.90*	90.57	ND	ND	ND	ND	ND	40.8	
	07/11/03	9.35	160.17	150.82	ND	ND	ND	ND	ND	24	
	11/13/03	8.85	160.17	151.32	ND	ND	ND	ND	ND	37	
	02/19/04	8.46	160.17	151.71	83	ND	ND	ND	ND	42.7	
	05/21/04	9.09	160.17	151.08	ND	ND	ND	ND	ND	54	
	08/11/05	8.87	160.17	151.30	ND	ND	ND	ND	ND	27	
	11/30/05	9.73	160.17	150.44	ND	ND	ND	ND	ND	28	
	08/08/08	9.64	59.94	50.30	99	<0.50	<0.50	<0.50	<0.50	4.5	
	11/05/08	9.33	59.94	50.61	55	<0.50	<1.0	<1.0	<1.0	4.5	
	02/06/09	9.37	59.94	50.57	100	<0.50	<0.50	<0.50	<0.50	5.3	
	05/07/09	8.98	59.94	50.96	410	<0.50	<0.50	<0.50	<0.50	5.5	
	06/01/10	9.82	59.94	50.12	<50	<0.50	<0.50	<0.50	<0.50	5.1	
	09/07/10	10.88	59.94	49.06			Not Scheduled for Sampling				
	12/08/10	9.82	59.94	50.12	53	<0.50	<0.50	<0.50	<0.50	6.6	
05/26/11	9.93	59.94	50.01	54	<0.50	<0.50	<0.50	<0.50	4.9		
MW-4	07/09/02	8.14	98.19*	90.05	9,680	43	17	369	1,990	28,300	
	07/11/03	6.73	158.42	151.69	3,170	16.5	6.4	71.7	240	16,600	
	11/13/03	6.54	158.42	151.88	<1,000	49	ND	340	900	16,000	
	02/19/04	4.37	158.42	154.05	7,230	107	7	497	1,063	14,300	
	05/21/04	5.79	158.42	152.63	9,340	194	ND	309	860	7,380	
	08/11/05	6.65	158.42	151.77	3,000	15	24	87	190	1,200	
	11/30/05	6.05	158.42	152.37	4,300	18	28	84	130	340	
	08/08/08	5.91	58.19	52.28	3,600	0.53	0.61	5.6	1.5	24	
	11/05/08	5.33	58.19	52.86	2,000	0.58	<1.0	6.8	1.2	31	
	02/06/09	5.15	58.19	53.04	3,400	0.81	<0.50	10	1.2	39	
	05/07/09	4.86	58.19	53.33	4,500	0.73	<0.50	7.4	1.2	29	
	06/01/10	6.00	58.19	52.19	3,300	<1.0 [3]	<1.0 [3]	4.1	<1.0 [3]	9.4	
	09/07/10				Inaccessible for monitoring; not scheduled for sampling						
	12/08/10	5.75	58.19	52.44	3,800	<1.0 [3]	<1.0 [3]	7.3	<1.0 [3]	7.6	
05/26/11	5.87	58.19	52.32	4,000	<2.5[3]	<2.5[3]	2.6	<2.5[3]	3.7		

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Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl) [1]	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-5	07/09/02	8.16	97.81*	89.65	275	30.2	ND	ND	3	18,600
	07/11/03	7.94	158.03	150.09	890	10	0.6	ND	7.1	5,090
	11/13/03	7.41	158.03	150.62	<1,000	ND	ND	ND	ND	3,400
	02/19/04	6.14	158.03	151.89	1,310	ND	0.7	ND	2.2	438
	05/21/04	7.42	158.03	150.61	1,960	9.7	0.7	ND	ND	214
	08/11/05	7.67	158.03	150.36	410 [2]	ND	3.3	ND	ND	100
	11/30/05	8.51	158.03	149.52	240 [2]	ND	1.8	ND	1.4	82
	08/08/08	7.59	57.80	50.21	1,900	<0.50	<0.50	<0.50	4.0	8.6
	11/05/08	6.91	57.80	50.89	1,600	<0.50	<1.0	<1.0	1.1	4.8
	02/06/09	6.98	57.80	50.82	680	<0.50	<0.50	<0.50	2.2	5.5
	05/07/09	6.43	57.80	51.37	1,900	0.72	0.91	<0.50	2.3	4.3
	06/01/10	8.15	57.80	49.65	1,000	<0.50	<0.50	<0.50	<0.50	4.3
	09/07/10	9.37	57.80	48.43			Not Scheduled for Sampling			
	12/08/10	7.78	57.80	50.02	200	<0.50	<0.50	<0.50	<0.50	5.9
	05/26/11	8.08	57.80	49.72	230	<1.0[3]	<1.0[3]	<1.0[3]	<1.0[3]	3.5
MW-6	07/09/02	7.45	97*	89.55	12,000	432	22	637	1,740	11,300
	07/11/03	7.98	157.24	149.26	2,970	534	6.3	70.1	278	18,000
	11/13/03	7.47	157.24	149.77	<2,500	300	ND	ND	52	18,000
	02/19/04	5.09	157.24	152.15	5,340	184	5	65	127	5,310
	05/21/04	6.38	157.24	150.86	6,110	340	12.7	205	308.8	3,900
	08/11/05	6.68	157.24	150.56	6,100	470	48	23	30	3,200
	11/30/05	7.43	157.24	149.81	3,700	310	30	16	12	3,400
	08/08/08	6.23	57.01	50.78	6,500	63	2.0	42	98	230
	11/05/08	5.35	57.01	51.66	4,800	74	<5.0	23	42	340
	02/06/09	5.44	57.01	51.57	5,800	34	1.1	16	38	140
	05/07/09	4.91	57.01	52.10	5,800	32	1.2	14	37	150
	06/01/10	5.85	57.01	51.16	7,500	100	<2.5 [3]	28	48	350
	09/07/10	7.84	57.01	49.17			Not Scheduled for Sampling			
	12/08/10	5.15	57.01	51.86	6,200	90	1.1	46	53.7	420
	05/26/11	5.73	57.01	51.28	5,500	54	<1.0[3]	23	30.4	230

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Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl) [1]	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-7	06/01/10	9.74	58.66	48.92	<50	<0.50	<0.50	<0.50	<0.50	22
	09/07/10	9.74	58.66	48.92	<50	<0.50	<0.50	<0.50	<0.50	17
	12/08/10	8.95	58.66	49.71	<50	<0.50	<0.50	<0.50	<0.50	7.6
	05/26/11	11.15	58.66	47.51	<50	<0.50	<0.50	<0.50	<0.50	2.8
MW-10	06/01/10	8.85	61.89	53.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/07/10	11.75	61.89	50.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/08/10	13.60	61.89	48.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/26/11	10.45	61.89	51.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-11	06/01/10	9.74	60.97	51.23	<50	<0.50	<0.50	<0.50	<0.50	6.7
	09/07/10	11.68	60.97	49.29	59	<0.50	<0.50	<0.50	<0.50	98
	12/08/10	12.19	60.97	48.78	52	<0.50	<0.50	<0.50	<0.50	96
	05/26/11	10.80	60.97	50.17	<50	<0.50	<0.50	<0.50	<0.50	17
MW-12A	06/01/10	8.07	62.98	54.91	270	<0.50	<0.50	<0.50	<0.50	260
	09/07/10					Inaccessible				
	12/08/10	10.35	62.98	52.63	150	<0.50	<0.50	<0.50	<0.50	300
	05/26/11	8.84	62.98	54.14	140	<0.50	<0.50	<0.50	<0.50	250
MW-13A	06/01/10	6.47	60.90	54.43	1,500	<0.50	<0.50	<0.50	<0.50	7.1
	09/07/10					Inaccessible				
	12/08/10	5.45	60.90	55.45	2,200	0.63	<0.50	<0.50	<0.50	15
	05/26/11	6.37	60.90	54.53	840	<0.50	<0.50	<0.50	<0.50	8.3
REMEDIATION WELL										
EX-1	05/26/11	10.26	NM	NM	600	<2.5[3]	<2.5[3]	<2.5[3]	<2.5[3]	730

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl) [1]	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
DEEPER WELLS										
MW-5B	06/01/10	12.87	57.69	44.82	<50	<0.50	<0.50	<0.50	<0.50	0.70
	09/07/10	13.28	57.69	44.41	<50	<0.50	<0.50	<0.50	<0.50	1.4
	12/08/10	13.95	57.69	43.74	<50	<0.50	<0.50	<0.50	<0.50	1.6
	05/26/11	12.51	57.69	45.18	<50	<0.50	<0.50	<0.50	<0.50	3.2
MW-6B	06/01/10	35.75	56.71	20.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/07/10	37.24	56.71	19.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/08/10	39.82	56.71	16.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/26/11	36.70	56.71	20.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-12B	06/01/10	37.49	62.94	25.45	<50	<0.50	<0.50	<0.50	<0.50	0.84
	09/07/10					Inaccessible				
	12/08/10	39.66	62.94	23.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/26/11	34.74	62.94	28.20	<50	<0.50	<0.50	<0.50	<0.50	0.80

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl) [1]	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
Legend/Key:										
GRO = Gasoline range organics					-- = Not available/not analyzed					
MTBE = Methyl tertiary butyl ether					ft msl = feet above mean sea level					
ND= "not-detected" or below the Method Detection Limits					µg/L = micrograms per liter					
[1] = The TOC elevations reported in groundwater monitoring reports prior to second quarter 2010 are incorrect. The datum elevation adopted previously was revised on August 4, 2008 using the city of Oakland datum (-D83). The revised TOC elevations are converted to mean sea level elevation and used to calculate all groundwater elevations.										
[2] = Laboratory reported does not match gasoline pattern.										
[3] = Reporting limits were increased due to high concentration of target analytes.										
* The top of casing (TOC) elevations originally surveyed on June 31, 2001 used MW-1 as the common datum with assumed elevation of 100.00 feet above mean sea level (msl). All other TOC elevations were surveyed relative to MW-1. All of the wells were again surveyed per GeoTracker standard on July 11, 2003, by PLS Surveys Inc., a California licensed surveyor. All elevations are reported with respect to feet above mean sea level.										

TABLE 2
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES

Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
SHALLOW WELLS										
MW-1	06/13/01	130	--	--	--	--	--	--	--	--
	03/21/02	72.5	--	--	--	--	--	--	--	--
	07/09/02	208	--	--	--	--	--	--	--	--
	07/11/03	636	--	--	--	--	--	--	--	--
	11/13/03	72,000	22,000	--	--	--	--	--	--	--
	02/19/04	82,000	8,360	--	--	--	--	--	--	--
	05/21/04	12,000	<1,000	--	--	--	--	--	--	--
	08/11/05	4,900	--	--	--	--	--	--	--	--
	11/30/05	8,400	--	--	--	--	--	--	--	--
	08/08/08	720	7.4J	<1.5	<1.5	<1.5	<300	<15	<1.5	<1.5
	11/05/08	580	<100	<20	<20	<20	--	<1,000	--	--
	02/06/09	610	120	<1.5	<1.5	<1.5	<600	<15	--	--
	05/07/09	210	110	<0.50	<0.50	<0.50	<150	<5.0	--	--
	06/01/10	170	200	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10									
12/08/10	300	110	<1.0	<1.0	<1.0	<50	<5.0	--	--	
05/26/11	100	81	<1.0	<1.0	<1.0	<50	<5.0	--	--	
MW-2	06/13/01	94,000	980	--	--	--	--	--	--	--
	03/21/02	79,100	--	--	--	--	--	--	--	--
	07/09/02	37,600	--	--	--	--	--	--	--	--
	07/11/03	38,200	--	--	--	--	--	--	--	--
	11/13/03	47,000	11,000	--	--	--	--	--	--	--
	02/19/04	26,700	3,930	--	--	--	--	--	--	--
	05/21/04	24,600	<4,000	--	--	--	--	--	--	--
	08/11/05	6,500	--	--	--	--	--	--	--	--
	11/30/05	2,300	--	--	--	--	--	--	--	--
	08/08/08	9.8	17,000	<9.0	<9.0	<9.0	<900	<90	<9.0	<9.0
	11/05/08	12	13,000	<2.0	<2.0	<2.0	--	<100	--	--
	02/06/09	10	11,000	<4.0	<4.0	<4.0	<400	<40	--	--
	05/07/09	9.7	12,000	<4.0	<4.0	<4.0	<400	<40	--	--
	06/01/10	69	7,300	<10 [1]	<10 [1]	<10 [1]	<50	<5.0	--	--
	09/07/10									
12/08/10	21	9,900	<10 [1]	<10 [1]	<10 [1]	<50	<5.0	--	--	
05/26/11	27	5,400	<5.0[1]	<5.0[1]	<5.0[1]	<50	<5.0	--	--	

TABLE 2
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES

Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	
MW-3	06/13/01	450	--	--	--	--	--	--	--	--	
	03/21/02	7,520	--	--	--	--	--	--	--	--	
	07/09/02	40.8	--	--	--	--	--	--	--	--	
	07/11/03	24.3	--	--	--	--	--	--	--	--	
	11/13/03	37	27	--	--	--	--	--	--	--	
	02/19/04	42.7	508	--	--	--	--	--	--	--	
	05/21/04	54	1,100	--	--	--	--	--	--	--	
	08/11/05	27	--	--	--	--	--	--	--	--	
	11/30/05	28	--	--	--	--	--	--	--	--	
	08/08/08	4.5	130	<0.50	<0.50	<0.50	<80	<5.0	<0.50	<0.50	
	11/05/08	4.5	500	<2.0	<2.0	<2.0	--	<100	--	--	
	02/06/09	5.3	770	<0.50	<0.50	<0.50	<100	<5.0	--	--	
	05/07/09	5.5	900	<0.50	<0.50	<0.50	<50	<5.0	--	--	
	06/01/10	5.1	36	<1.0	<1.0	<1.0	<50	<5.0	--	--	
	09/07/10										Not Scheduled for Sampling
	12/08/10	6.6	680	<1.0	<1.0	<1.0	<50	<5.0	--	--	
05/26/11	4.9	590	<1.0	<1.0	<1.0	<50	<5.0	--	--		
MW-4	07/09/02	28,300	--	--	--	--	--	--	--	--	
	07/11/03	16,600	--	--	--	--	--	--	--	--	
	11/13/03	16,000	4,500	--	--	--	--	--	--	--	
	02/19/04	14,300	1,440	--	--	--	--	--	--	--	
	05/21/04	7,380	<2,000	--	--	--	--	--	--	--	
	08/11/05	1,200	--	--	--	--	--	--	--	--	
	11/30/05	340	--	--	--	--	--	--	--	--	
	08/08/08	24	1,800	<0.50	<0.50	<0.50	<80	<5.0	<0.50	<0.50	
	11/05/08	31	760	<2.0	<2.0	<2.0	--	<100	--	--	
	02/06/09	39	1,400	<0.50	<0.50	<0.50	<200	<5.0	--	--	
	05/07/09	29	1,000	<0.50	<0.50	<0.50	<200	<5.0	--	--	
	06/01/10	9.4	900	<2.0 [1]	<2.0 [1]	<2.0 [1]	<50	<5.0	--	--	
	09/07/10										Not Scheduled for Sampling
	12/08/10	7.6	940	<2.0 [1]	<2.0 [1]	<2.0 [1]	<50	<5.0	--	--	
	05/26/11	3.7	1,400	<5.0[1]	<5.0[1]	<5.0[1]	<50	<5.0	--	--	

TABLE 2
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	
MW-5	07/09/02	18,600	--	--	--	--	--	--	--	--	
	07/11/03	5,090	--	--	--	--	--	--	--	--	
	11/13/03	3,400	3,100	--	--	--	--	--	--	--	
	02/19/04	438	1,340	--	--	--	--	--	--	--	
	05/21/04	214	436	--	--	--	--	--	--	--	
	08/11/05	100	--	--	--	--	--	--	--	--	
	11/30/05	82	--	--	--	--	--	--	--	--	
	08/08/08	8.6	510	<0.50	<0.50	<0.50	<50	<5.0	<0.50	<0.50	
	11/05/08	4.8	170	<2.0	<2.0	<2.0	--	<100	--	--	
	02/06/09	5.5	110	<0.50	<0.50	<0.50	<200	<5.0	--	--	
	05/07/09	4.3	60	<0.50	<0.50	<0.50	<50	<5.0	--	--	
	06/01/10	4.3	570	<1.0	<1.0	<1.0	<50	<5.0	--	--	
	09/07/10										Not Scheduled for Sampling
	12/08/10	5.9	1,300	<1.0	<1.0	<1.0	<50	<5.0	--	--	
	05/26/11	3.5	1,300	<2.0[1]	<2.0[1]	<2.0[1]	<50	<5.0	--	--	
MW-6	07/09/02	11,300	--	--	--	--	--	--	--	--	
	07/11/03	18,000	--	--	--	--	--	--	--	--	
	11/13/03	18,000	ND	--	--	--	--	--	--	--	
	02/19/04	5,310	4,260	--	--	--	--	--	--	--	
	05/21/04	3,900	4,060	--	--	--	--	--	--	--	
	08/11/05	3,200	--	--	--	--	--	--	--	--	
	11/30/05	3,400	--	--	--	--	--	--	--	--	
	08/08/08	230	810	<0.50	<0.50	<0.66	<200	<8.0	<0.50	<0.50	
	11/05/08	340	950	<10	<10	<10	--	<500	--	--	
	02/06/09	140	690	<0.50	<0.50	<0.50	<200	<5.0	--	--	
	05/07/09	150	460	<0.50	<0.50	<0.50	<100	<5.0	--	--	
	06/01/10	350	770	<5.0 [1]	<5.0 [1]	<5.0 [1]	<50	<5.0	--	--	
	09/07/10										Not Scheduled for Sampling
	12/08/10	420	890	<2.0 [1]	<2.0 [1]	<2.0 [1]	<50	<5.0	--	--	
	05/26/11	230	640	<2.0[1]	<2.0[1]	<2.0[1]	<50	<5.0	--	--	

TABLE 2
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

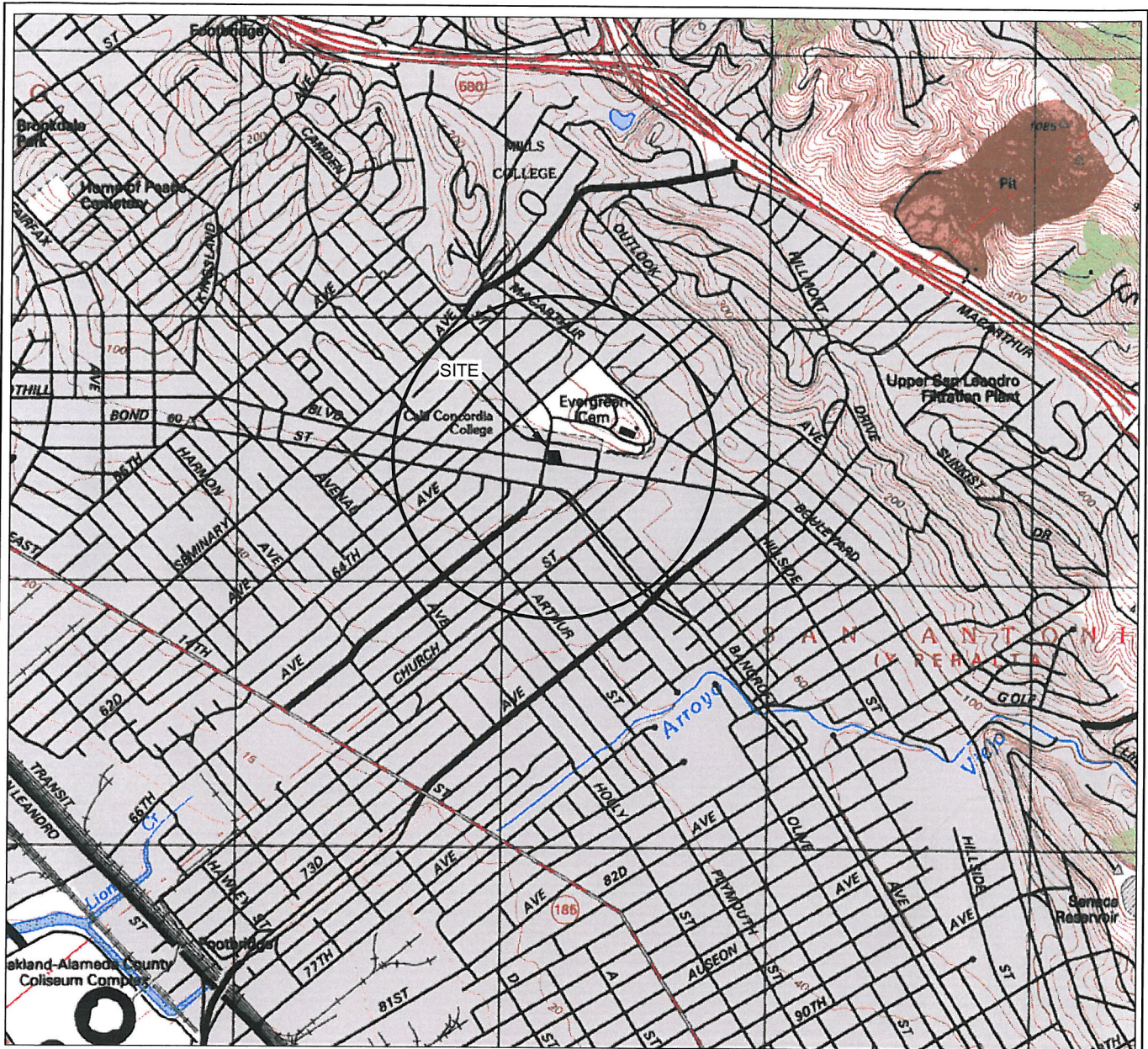
Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-7	06/01/10	22	18	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10	17	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	12/08/10	7.6	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	2.8	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
MW-10	06/01/10	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	12/08/10	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
MW-11	06/01/10	6.7	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10	98	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	12/08/10	96	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	17	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
MW-12A	06/01/10	260	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10					Inaccessible				
	12/08/10	300	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	250	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
MW-13A	06/01/10	7.1	33	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10					Inaccessible				
	12/08/10	15	61	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	8.3	33	<1.0	<1.0	<1.0	<50	<5.0	--	--
REMEDIATION WELL										
EX-1	05/26/11	730	6,700	<5.0[1]	<5.0[1]	<5.0[1]	<50	<5.0	--	--
DEEPER WELLS										
MW-5B	06/01/10	0.70	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10	1.4	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	12/08/10	1.6	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	3.2	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
MW-6B	06/01/10	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	12/08/10	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	<0.50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
MW-12B	06/01/10	0.84	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	09/07/10					Inaccessible				
	12/08/10	<50	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--
	05/26/11	0.80	<10	<1.0	<1.0	<1.0	<50	<5.0	--	--

TABLE 2
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
Legend/Key:										
MTBE = Methyl tertiary butyl ether					1,2-DCA = 1,2-Dichloroethane					
TBA = Tertiary butyl alcohol					EDB = 1,2-Dibromoethane					
DIPE = Di-isopropyl ether					ND= "not-detected" or below the Method Detection Limits					
ETBE = Ethyl tertiary butyl ether					--= Not available/not analyzed					
TAME = Tertiary amyl methyl ether					mg/L = micrograms per liter					
[1] = Reporting limits were increased due to high concentration of target analytes.										

TABLE 3
WELL CONSTRUCTION DETAIL SUMMARY
 Foothill Mini Mart, 6600 Foothill Boulevard, Oakland, California

Boring/Well I.D.	Date Installed	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Well Depth (feet)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method
<i>Shallow Groundwater Monitoring Wells</i>								
MW-1	06/04/01	25	8	2	25	10-25	0.01	HSA
MW-2	06/04/01	25	8	2	25	10-25	0.01	HSA
MW-3	06/04/01	25	8	2	25	10-25	0.01	HSA
MW-4	06/26/02	20	8	2	20	7.5-20	0.01	HSA
MW-5	06/26/02	20	8	2	20	7.5-20	0.01	HSA
MW-6	06/26/02	20	8	2	20	7.5-20	0.01	HSA
MW-7	09/23/09	25	8	2	25	10-25	0.01	HSA
MW-10	09/22/09	25	8	2	25	15-25	0.01	HSA
MW-11	09/23/09	25	8	2	25	10-25	0.01	HSA
MW-12A	09/22/09	25	8	2	25	10-25	0.01	HSA
MW-13A	09/24/09	25	8	2	25	5--25	0.01	HSA
<i>Deeper Groundwater Monitoring Wells</i>								
MW-5B	09/23/09	45	8	2	45	35-45	0.01	HSA
MW-6B	09/24/09	50	8	2	50	35-50	0.01	HSA
MW-12B	09/22/09	43	8	2	43	33-43	0.01	HSA
<i>Remediation Wells</i>								
EX-1	04/04/11	30	10	4	30	10-30	0.02	HSA
IW-1A/B	04/06/11	28	8	1	21.5	20.5-21.5	0.02	HSA
IW-2A/B	04/06/11	28	8	1	27	25-27	microporous	HSA
				1	21.5	20.5-21.5	0.02	
				1	27	25-27	microporous	
<i>Soil Gas Monitoring Wells</i>								
SGW-1	04/06/11	2.5	6	0.25	2.5	2-2.5	mesh	hand digging
SGW-2	04/07/11	1.5	6	0.25	1.5	1-1.5	mesh	hand digging
Notes: HSA = hollow stem auger								



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND EAST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



SCALE 1:24,000

STRATUS
 ENVIRONMENTAL, INC.

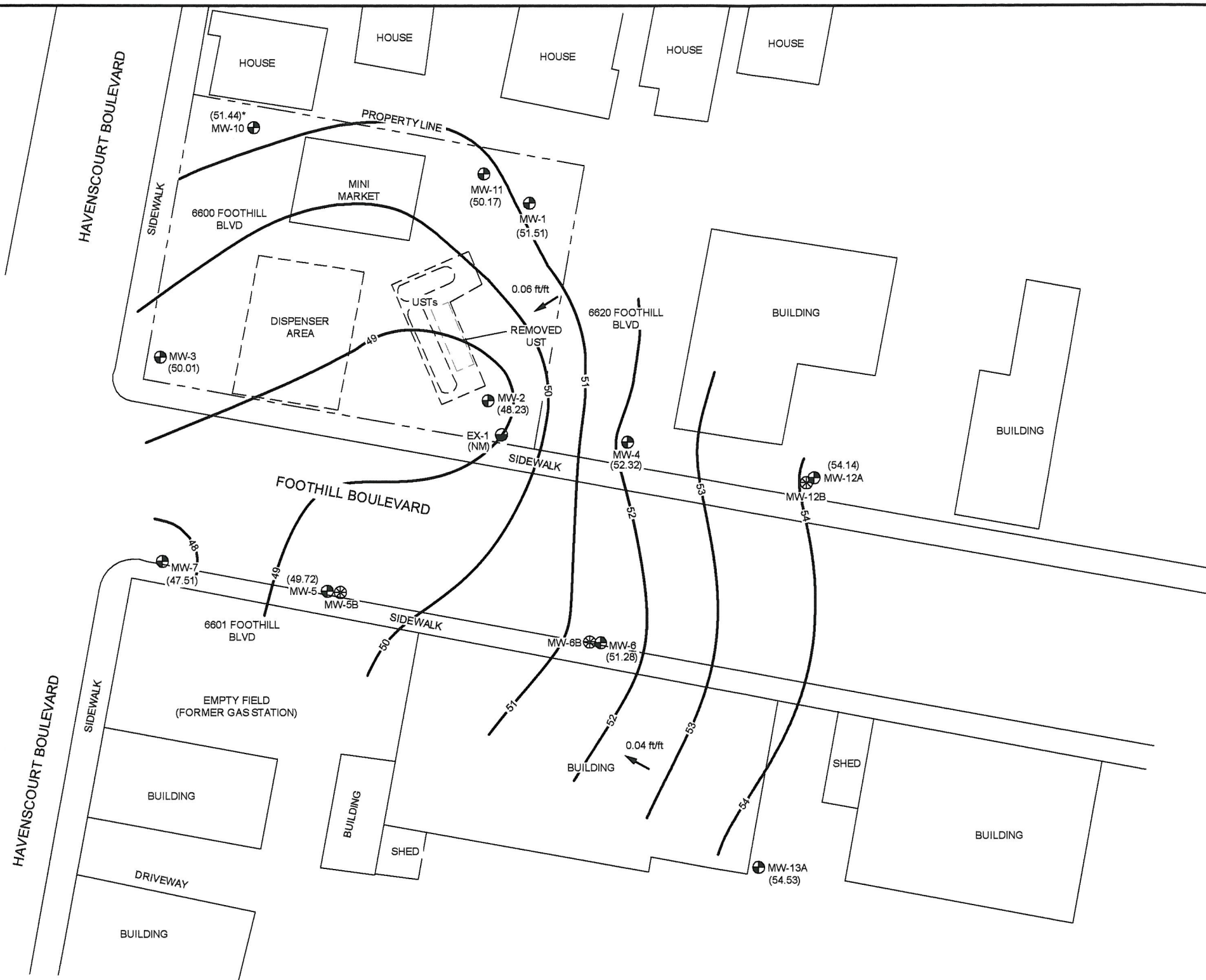
FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

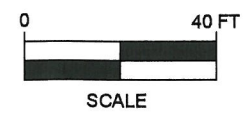
PROJECT NO.
 2087-6600-01



- LEGEND:
- ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
 - ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
 - ⊙ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
 - (51.51) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
 - 51— GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MSL
 - ➔ INFERRED GROUNDWATER FLOW DIRECTION
- WELLS MEASURED ON 5/26/11
 MSL = MEAN SEA LEVEL
 * NOT USED FOR CONTOURING
 (NM) = NOT MEASURED

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

Foothill Mini Mart/Quartary July 14, 2011 J.M.P. REV



FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 GROUNDWATER ELEVATION CONTOUR MAP
 SHALLOW SCREENED WELLS
 2nd QUARTER 2011

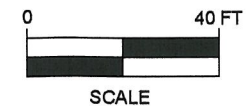
FIGURE
2
 PROJECT NO.
 2087-6600-01



LEGEND:
 ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
 ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
 ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
 (45.18) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
 WELLS MEASURED ON 5/26/11
 MSL = MEAN SEA LEVEL

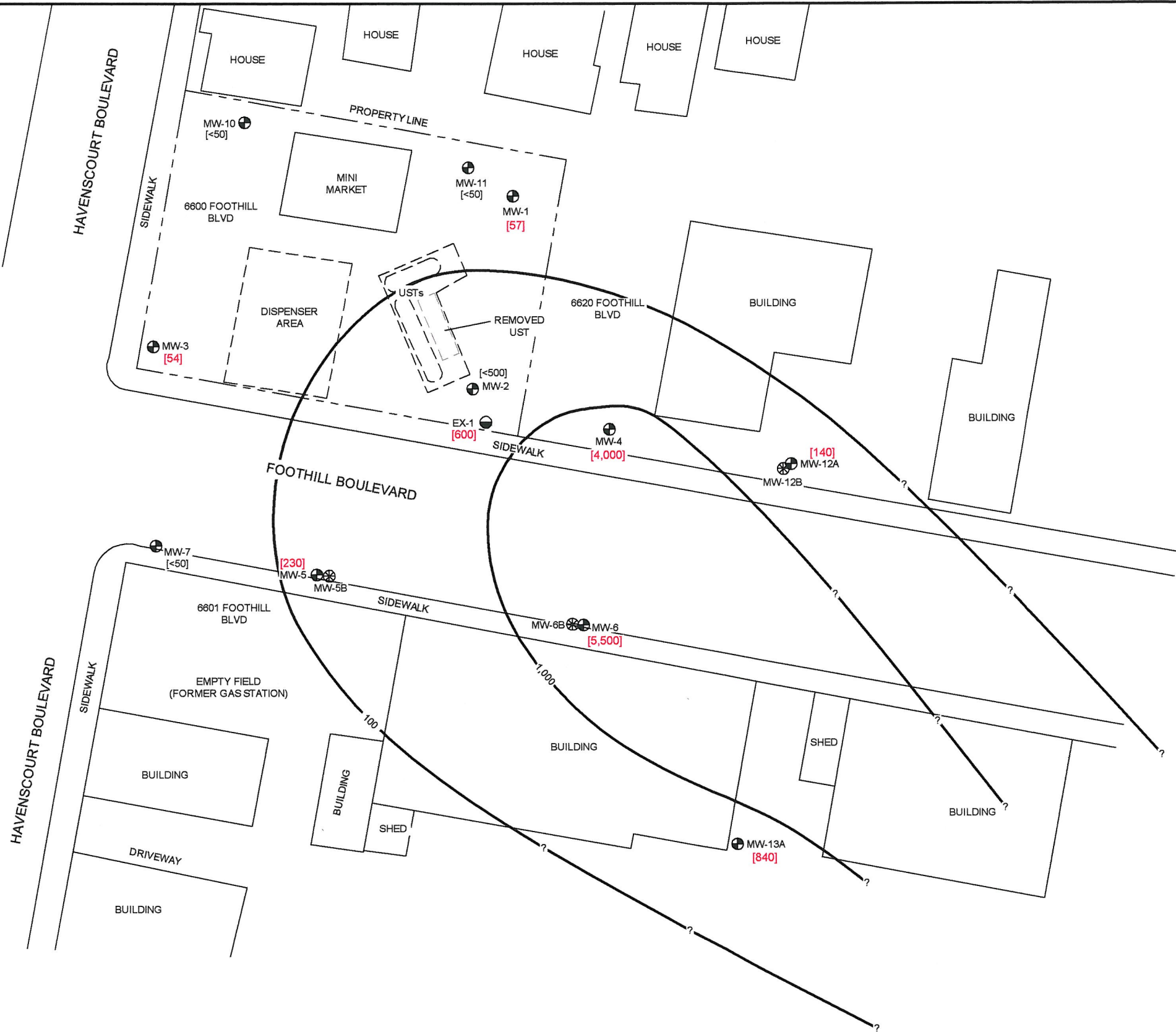
Foothill Mini Mart/Quarterly Figures July 14, 2011 JMP REV

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE



FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 GROUNDWATER ELEVATION MAP
 DEEP SCREENED WELLS
 2nd QUARTER 2011

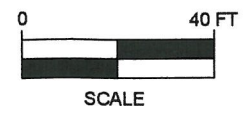
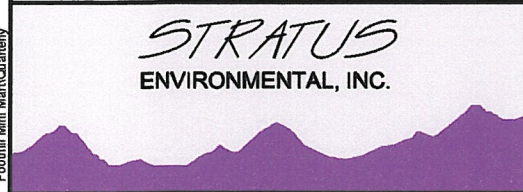
FIGURE
3
 PROJECT NO.
 2087-6600-01



LEGEND:
 ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
 ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
 ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
 [<50] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$
 WELLS SAMPLED ON 5/26/11
 GRO ANALYZED BY EPA METHOD 8015B

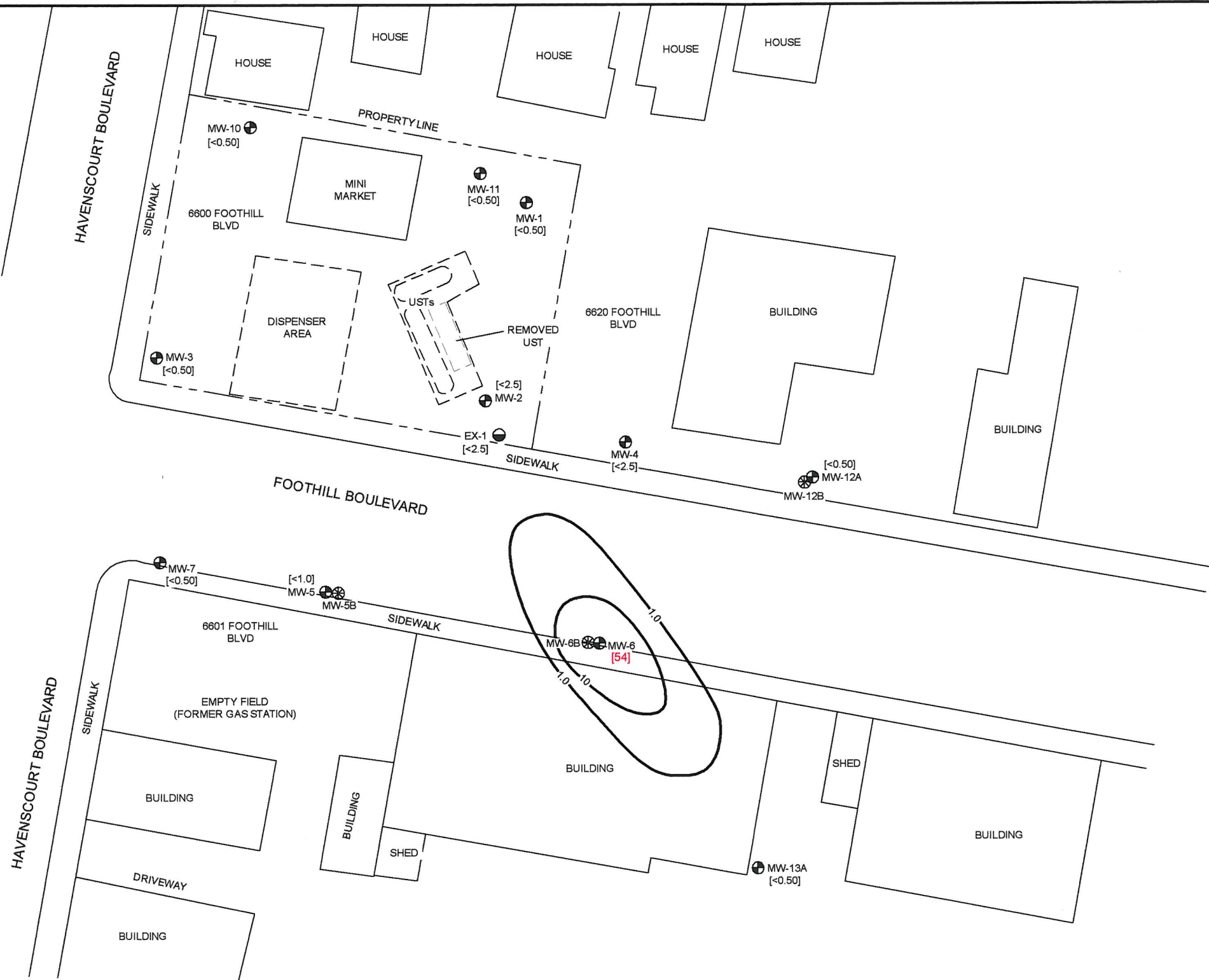
Foothill Mini Mart/Quartery Figures June 9, 2011 J.M.P. REV

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE



FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 GRO ISO-CONCENTRATION CONTOUR MAP
 SHALLOW SCREENED WELLS
 2nd QUARTER 2011

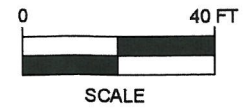
FIGURE
4
 PROJECT NO.
 2087-6600-01



LEGEND:
 ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
 ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
 ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
 [<0.50] BENZENE CONCENTRATION IN µg/L
 WELLS SAMPLED ON 5/26/11
 BENZENE ANALYZED BY EPA METHOD 8260B

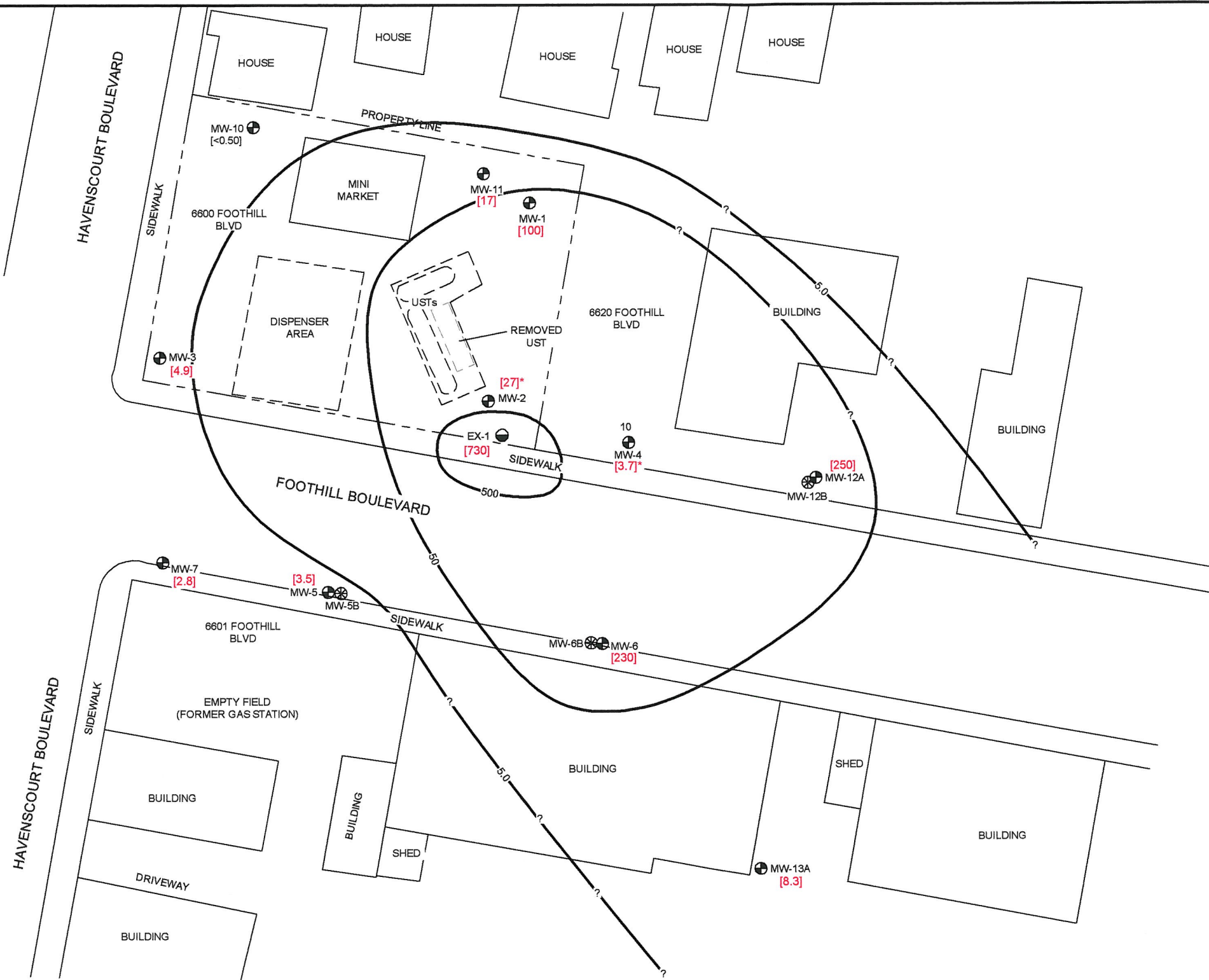
NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

Foothill Mini Mart Quarterly Figures June 9, 2011 JMP REV



FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 BENZENE ISO-CONCENTRATION CONTOUR MAP
 SHALLOW SCREENED WELLS
 2nd QUARTER 2011

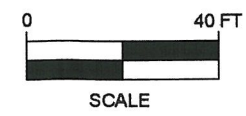
FIGURE
5
 PROJECT NO.
 2087-6600-01



LEGEND:
 ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
 ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
 ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
 [<math><0.50</math>] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$
 WELLS SAMPLED ON 5/26/11
 MTBE ANALYZED BY EPA METHOD 8260B
 *NOT USED FOR CONTOURING

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

FootHill Mini Mart/Quarterly Figures
JMP REV June 9, 2011



FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 MTBE ISO-CONCENTRATION CONTOUR MAP
 SHALLOW SCREENED WELLS
 2nd QUARTER 2011

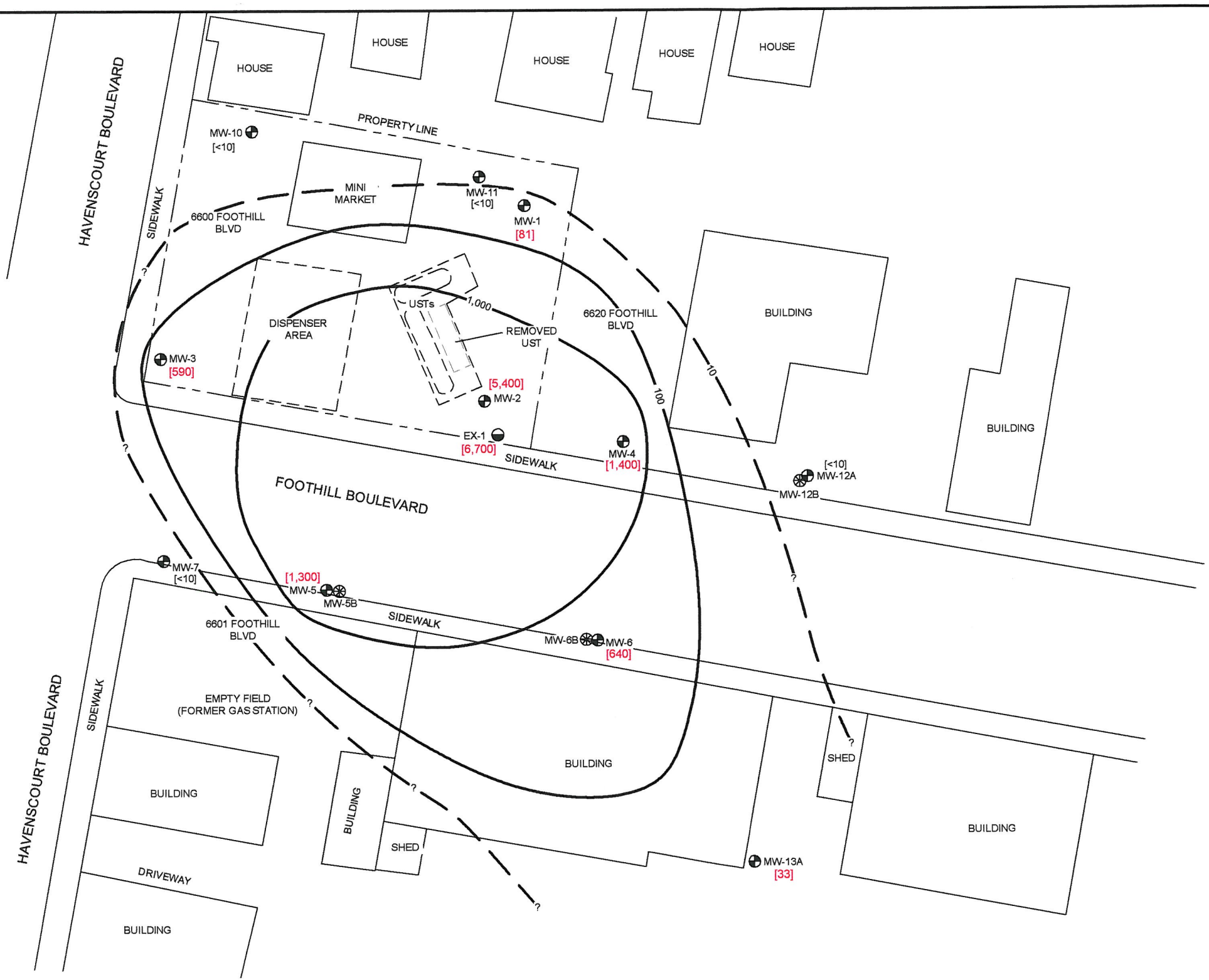
FIGURE
6
 PROJECT NO.
 2087-6600-01



LEGEND:

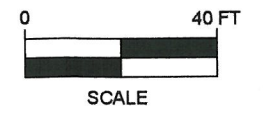
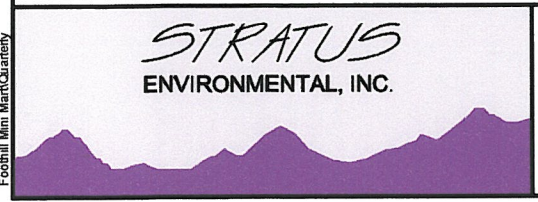
- ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
- ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
- ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION
- [<10] TERT-BUTYL ALCOHOL (TBA) CONCENTRATION IN µg/L

WELLS SAMPLED ON 5/26/11
TBA ANALYZED BY EPA METHOD 8260B



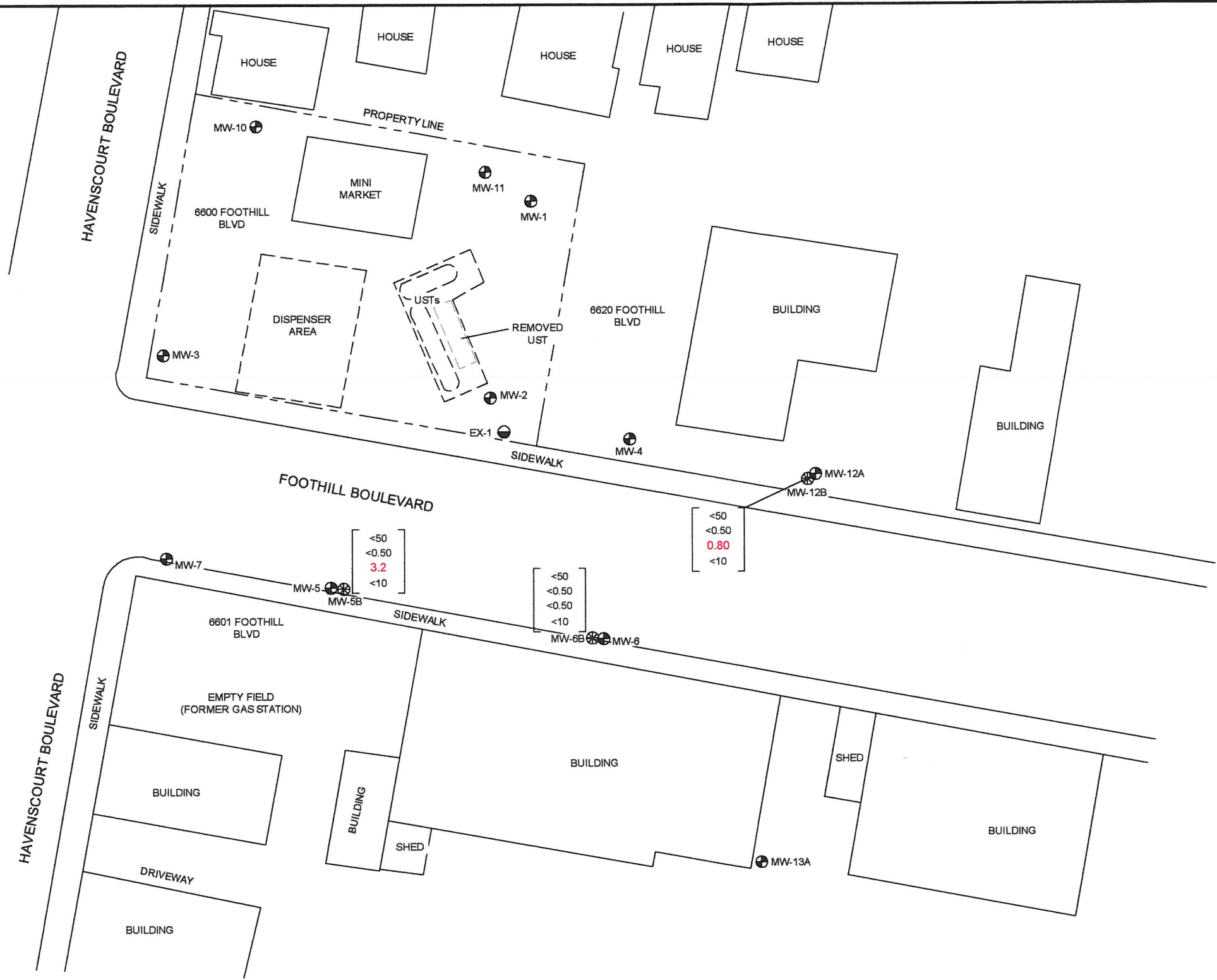
NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

JMP REV June 9, 2011 Foothill Mini Mart/Quarterly Figures



FOOTHILL MINI MART
6600 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA
TBA ISO-CONCENTRATION CONTOUR MAP
SHALLOW SCREENED WELLS
2nd QUARTER 2011

FIGURE
7
PROJECT NO.
2087-6600-01



LEGEND:

- ⊕ MW-1 SHALLOW SCREENED MONITORING WELL LOCATION
- ⊗ MW-5B DEEP SCREENED MONITORING WELL LOCATION
- ⊖ EX-1 APPROXIMATE EXTRACTION WELL LOCATION

<50	GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN µg/L
<50	BENZENE CONCENTRATION IN µg/L
<0.50	METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L
<10	TERT-BUTYL ALCOHOL (TBA) CONCENTRATION IN µg/L

WELLS SAMPLED ON 5/26/11
 GRO ANALYZED BY EPA METHOD 8015B
 TBA, MTBE, & BENZENE ANALYZED BY EPA METHOD 8260B

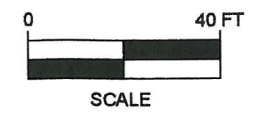
<50
<0.50
3.2
<10

<50
<0.50
0.80
<10

<50
<0.50
<0.50
<10

NOTE: LOCATIONS OF SITE FEATURES, WELLS, & BORINGS ARE APPROXIMATE

Foothill Mini Mart Quarterly Figures
JMP REV June 9, 2011



FOOTHILL MINI MART
 6600 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 GROUNDWATER ANALYTICAL SUMMARY
 DEEP SCREENED WELLS
 2nd QUARTER 2011

FIGURE
8
 PROJECT NO.
 2087-6600-01

APPENDIX A
FIELD DATA SHEETS



Site Address 6600 Foothill Blvd
 City Oakland
 Sampled by: _____
 Signature [Signature]

Site Number Foothill Mini Mart
 Project Number 2087-6600-01
 Project PM Scott Bittinger
 DATE 5.21.11

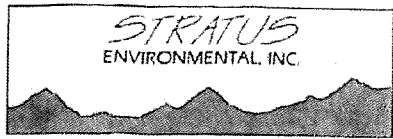
Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-1	0447		8.51	24.18	15.67	2	.5	8	8		X			10.82	MW-1	0921	0.63
MW-2	0442		10.51	24.34	13.83	2	.5	7	7		X			15.03	2	1032	2.91
MW-3	0444		9.93	23.61	13.68	2	.5	6	6		X			10.72	3	0704	3.97
MW-4	0449		5.87	19.55	13.68	2	.5	7	7		X			5.93	4	0843	0.61
MW-5	0439		8.08	19.21	10.92	2	.5	5	5		X			09.03	5	0615	4.12
MW-5B	0440		12.91	42.15	29.24	2	.5	16	16		X	Low		30.52	5B	0811	3.57
MW-6	0437		5.73	18.60	12.87	2	.5	6.5	6.5		X			07.49	6	0822	0.70
MW-6B	0436		36.70	48.81	12.11	2	.5	6	6		X			39.82	6B	0817	8.93
MW-7	0453		11.17	24.64	12.85	2	.5	6	6		X			12.43	7	0510	2.42
MW-10	0445		10.45	24.90	13.55	2	.5	7	7		X	Low		13.30	10	1001	7.11
MW-11	0446		10.50	24.79	13.49	2	.5	7	7		X			10.80	11	0936	0.54
MW-12A	0450		8.84	21.50	12.66	2	.5	6.5	6.5		X			9.35	12A	0903	0.35
MW-12B	0451		34.75	43.25	6.53	2	.5	3.5	3.5		X			39.81	12B	0908	1.48
MW-13A	1036		6.37	24.40	17.63	2	.5	8	8		X			8.11	MW-13A	1055	2.43
EX-1	0441		10.26	29.70	18.74	4	2	37	37		X			11.62	EX-1	1046	2.44

Multiplier
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
 pH/Conductivity/temperature Meter - Oakton Model PC-10
 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE _____
 pH 5.25-11
 Conductivity _____
 DO _____

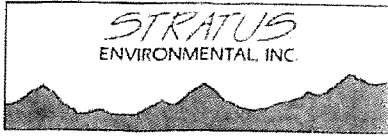
ORIGINAL



Site Address 6600 Foothill Blvd
 City Oakland
 Sampled By: _____
 Signature CHILL

Site Number Foothill Mini Mart
 Project Number 2087-6600-01
 Project PM Scott Bittinger
 DATE 5-26-11

Well ID <u>MW-7</u>					Well ID <u>MW-5</u>					
Purge start time		Odor			Purge start time		Odor			
Temp C	pH	cond	gallons	Y	N	Temp C	pH	cond	gallons	
time <u>0504</u>	<u>16.0</u>	<u>6.78</u>	<u>572</u>	<u>8</u>		time <u>0537</u>	<u>16.4</u>	<u>6.43</u>	<u>335</u>	<u>8</u>
time <u>0508</u>	<u>16.2</u>	<u>6.68</u>	<u>499</u>	<u>3</u>		time <u>0541</u>	<u>16.9</u>	<u>6.49</u>	<u>346</u>	<u>3</u>
time <u>0516</u>	<u>16.5</u>	<u>6.73</u>	<u>532</u>	<u>6</u>		time <u>0544</u>	<u>16.5</u>	<u>6.49</u>	<u>349</u>	<u>5</u>
time						time				
purge stop time <u>0542</u>		ORP <u>263</u>			purge stop time <u>0542</u>		ORP <u>241</u>			
Well ID <u>MW5B</u>					Well ID <u>MW-10</u>					
Purge start time		Odor			Purge start time		Odor			
Temp C	pH	cond	gallons	Y	N	Temp C	pH	cond	gallons	
time <u>0549</u>	<u>17.7</u>	<u>6.79</u>	<u>423</u>	<u>8</u>		time <u>0627</u>	<u>16.2</u>	<u>6.27</u>	<u>392</u>	<u>8</u>
time <u>0559</u>	<u>17.9</u>	<u>6.81</u>	<u>432</u>	<u>8</u>		time <u>0632</u>	<u>16.8</u>	<u>6.33</u>	<u>395</u>	<u>3</u>
time <u>0610</u>	<u>LOW</u>	<u>0</u>	<u>16</u>			time <u>0636</u>	<u>LOW</u>	<u>0</u>	<u>7</u>	
time <u>0810</u>	<u>17.9</u>	<u>6.91</u>	<u>366</u>	<u>16</u>		time <u>1001</u>	<u>18.3</u>	<u>6.42</u>	<u>362</u>	<u>7.0</u>
purge stop time <u>0610</u>		ORP <u>208</u>			purge stop time <u>0636</u>		ORP <u>192</u>			
Well ID <u>MW-3</u>					Well ID <u>EX-1</u>					
Purge start time		Odor			Purge start time		Odor			
Temp C	pH	cond	gallons	Y	N	Temp C	pH	cond	gallons	
time <u>0650</u>	<u>16.9</u>	<u>6.35</u>	<u>387</u>	<u>8</u>		time <u>0712</u>	<u>17.7</u>	<u>6.21</u>	<u>487</u>	<u>8</u>
time <u>0655</u>	<u>18.2</u>	<u>6.28</u>	<u>373</u>	<u>3</u>		time <u>0717</u>	<u>12.7</u>	<u>6.30</u>	<u>568</u>	<u>15</u>
time <u>0705</u>	<u>18.1</u>	<u>6.29</u>	<u>380</u>	<u>6</u>		time <u>0722</u>	<u>LOW</u>	<u>0</u>	<u>37</u>	
time						time <u>1046</u>	<u>19.6</u>	<u>6.52</u>	<u>431</u>	<u>37</u>
purge stop time <u>0705</u>		ORP <u>191</u>			purge stop time <u>0722</u>		ORP <u>153</u>			
Well ID <u>MW-2</u>					Well ID <u>MW 13A</u>					
Purge start time		Odor			Purge start time		Odor			
Temp C	pH	cond	gallons	Y	N	Temp C	pH	cond	gallons	
time <u>0732</u>	<u>17.9</u>	<u>6.17</u>	<u>507</u>	<u>8</u>		time <u>1038</u>	<u>17.3</u>	<u>6.96</u>	<u>314</u>	<u>8</u>
time <u>0739</u>	<u>18.2</u>	<u>6.13</u>	<u>528</u>	<u>3</u>		time <u>1043</u>	<u>17.0</u>	<u>6.75</u>	<u>292</u>	<u>4</u>
time <u>0740</u>	<u>LOW</u>	<u>0</u>	<u>7</u>			time <u>1047</u>	<u>17.0</u>	<u>6.78</u>	<u>287</u>	<u>8</u>
time <u>1032</u>	<u>19.7</u>	<u>6.39</u>	<u>454</u>	<u>7.0</u>		time				
purge stop time <u>0740</u>		ORP <u>191</u>			purge stop time		ORP <u>204</u>			



Site Address 6600 Foothill Blvd
 City Oakland
 Sampled By: _____
 Signature VZ

Site Number Foothill Mini Mart
 Project Number 2087-6600-01
 Project PM Scott Bittering
 DATE 5-26-11

Well ID <u>MW-6B</u>					Well ID <u>MW-6</u>				
Purge start time <u>0530</u>		Odor <u>Y</u> <input checked="" type="radio"/> <u>N</u>			Purge start time <u>0547</u>		Odor <input checked="" type="radio"/> <u>Y</u> <u>N</u>		
<u>Bail</u>	Temp C	pH	cond	gallons	<u>Bail</u>	Temp C	pH	cond	gallons
time <u>0530</u>	<u>17.2</u>	<u>6.93</u>	<u>369</u>	<u>2</u>	time <u>0547</u>	<u>17.5</u>	<u>6.63</u>	<u>362</u>	<u>2</u>
time <u>0536</u>	<u>19.5</u>	<u>6.97</u>	<u>343</u>	<u>3.0</u>	time <u>0552</u>	<u>18.2</u>	<u>6.61</u>	<u>359</u>	<u>3.5</u>
time <u>0543</u>	<u>Low</u>	<u>@</u>	<u>6.0</u>		time <u>0557</u>	<u>Low</u>	<u>@</u>	<u>6.5</u>	
time <u>0817</u>	<u>19.5</u>	<u>6.93</u>	<u>368</u>	<u>6.0</u>	time <u>0822</u>	<u>18.3</u>	<u>6.68</u>	<u>347</u>	<u>6.5</u>
purge stop time <u>0543</u>		ORP <u>112</u>			purge stop time <u>0557</u>		ORP <u>64</u>		
Well ID <u>MW-4 sheen</u>					Well ID <u>MW-12B</u>				
Purge start time <u>0611</u>		Odor <input checked="" type="radio"/> <u>Y</u> <u>N</u>			Purge start time <u>0631</u>		Odor <u>Y</u> <input checked="" type="radio"/> <u>N</u>		
<u>Bail</u>	Temp C	pH	cond	gallons	<u>Bail</u>	Temp C	pH	cond	gallons
time <u>0611</u>	<u>18.5</u>	<u>6.64</u>	<u>353</u>	<u>2</u>	time <u>0631</u>	<u>19.0</u>	<u>7.16</u>	<u>515</u>	<u>2</u>
time <u>0617</u>	<u>19.1</u>	<u>6.68</u>	<u>354</u>	<u>3.5</u>	time <u>0636</u>	<u>19.9</u>	<u>7.23</u>	<u>522</u>	<u>2.0</u>
time <u>0623</u>	<u>Low</u>	<u>@</u>	<u>7.0</u>		time <u>0640</u>	<u>Low</u>	<u>@</u>	<u>3.5</u>	<u>gal</u>
time <u>0843</u>	<u>18.5</u>	<u>6.78</u>	<u>328</u>	<u>7.0</u>	time <u>0908</u>	<u>20.0</u>	<u>7.07</u>	<u>560</u>	<u>3.5</u>
purge stop time <u>0623</u>		ORP <u>-62</u>			purge stop time <u>0640</u>		ORP <u>14</u>		
Well ID <u>12A</u>					Well ID <u>MW-1</u>				
Purge start time <u>0643</u>		Odor <u>Y</u> <input checked="" type="radio"/> <u>N</u>			Purge start time <u>0701</u>		Odor <u>Y</u> <input checked="" type="radio"/> <u>N</u>		
<u>Bail</u>	Temp C	pH	cond	gallons	<u>Bail</u>	Temp C	pH	cond	gallons
time <u>0643</u>	<u>19.1</u>	<u>6.56</u>	<u>287</u>	<u>2</u>	time <u>0701</u>	<u>18.7</u>	<u>6.07</u>	<u>288</u>	<u>2</u>
time <u>0648</u>	<u>19.0</u>	<u>6.52</u>	<u>290</u>	<u>3.5</u>	time <u>0708</u>	<u>18.9</u>	<u>6.07</u>	<u>300</u>	<u>4.0</u>
time <u>0652</u>	<u>Low</u>	<u>@</u>	<u>6.50</u>		time <u>0715</u>	<u>Low</u>	<u>@</u>	<u>8.0</u>	
time <u>0903</u>	<u>19.4</u>	<u>6.50</u>	<u>283</u>	<u>6.50</u>	time <u>0921</u>	<u>19.1</u>	<u>6.43</u>	<u>314</u>	<u>8.0</u>
purge stop time <u>0652</u>		ORP <u>1</u>			purge stop time <u>0715</u>		ORP <u>44</u>		
Well ID <u>MW-11</u>					Well ID				
Purge start time <u>0719</u>		Odor <u>Y</u> <input checked="" type="radio"/> <u>N</u>			Purge start time		Odor <u>Y</u> <u>N</u>		
<u>Bail</u>	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>0719</u>	<u>18.3</u>	<u>5.97</u>	<u>533</u>	<u>2</u>	time				
time <u>0726</u>	<u>18.4</u>	<u>6.00</u>	<u>536</u>	<u>3.5</u>	time				
time <u>0732</u>	<u>Low</u>	<u>@</u>	<u>7.00</u>		time				
time <u>0936</u>	<u>19.0</u>	<u>6.06</u>	<u>530</u>	<u>7.00</u>	time				
purge stop time <u>0732</u>		ORP <u>75</u>			purge stop time		ORP		

APPENDIX B

SAMPLING AND ANALYSES PROCEDURES

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Ground Water

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Purging and Sampling

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of according to regulatory accepted method pertaining to the site.

QUALITY ASSURANCE PLAN

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconformants, defective material, services, and/or equipment, can be promptly identified and corrected.

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc[®] type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon[®] sheeting and plastic caps. The sample is then placed in a Ziploc[®] type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and

noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

Internal Quality Assurance Checks

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

- Laboratory Quality Assurance

- Documentation of instrument performance checks
- Documentation of instrument calibration
- Documentation of the traceability of instrument standards, samples, and data
- Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

- Field Quality Assurance

- Documentation of sample preservation and transportation
- Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

Types of Quality Control Checks

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks – reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples – a known amount of spike solution containing selected constituents is added to the sample at concentrations at which the accuracy of the analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples – a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples – samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts – graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples – when spiked sample analysis indicates atypical instrument performance, a quality check sample, which is prepared independently of the calibration standards and contains the constituents of interest, is analyzed to confirm that measurements were performed accurately.

- Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks – reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates – duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks – reagent water samples are prepared before field work, transported and stored with the samples and analyzed to assess the impact of sample transport and storage for data quality. In the event that any analyte is detected in the field blank, a trip blank will be included in the subsequent groundwater sampling event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

Anions by IC
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: MW-2					
Lab ID : STR11052641-02A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:16
Date Sampled 05/26/11 10:32	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 14:16
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:16
	Sulfate (SO4)	29,000	500 µg/L	05/27/11 11:33	05/27/11 14:16
Client ID: MW-4					
Lab ID : STR11052641-04A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:34
Date Sampled 05/26/11 08:43	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 14:34
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:34
	Sulfate (SO4)	4,700	500 µg/L	05/27/11 11:33	05/27/11 14:34
Client ID: MW-5					
Lab ID : STR11052641-05A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:53
Date Sampled 05/26/11 06:15	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 14:53
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 14:53
	Sulfate (SO4)	6,000	500 µg/L	05/27/11 11:33	05/27/11 14:53
Client ID: MW-6					
Lab ID : STR11052641-07A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:11
Date Sampled 05/26/11 08:22	Bromide	280	250 µg/L	05/27/11 11:33	05/27/11 15:11
	Nitrate (NO3) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:11
	Sulfate (SO4)	ND	500 µg/L	05/27/11 11:33	05/27/11 15:11
Client ID: MW-10					
Lab ID : STR11052641-10A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:30
Date Sampled 05/26/11 10:01	Bromide	ND	250 µg/L	05/27/11 11:33	05/27/11 15:30
	Nitrate (NO3) - N	10,000	250 µg/L	05/27/11 11:33	05/27/11 15:30
	Sulfate (SO4)	65,000	500 µg/L	05/27/11 11:33	05/27/11 15:30
Client ID: EX-1					
Lab ID : STR11052641-15A	Nitrite (NO2) - N	ND	250 µg/L	05/27/11 11:33	05/27/11 15:48
Date Sampled 05/26/11 10:46	Bromide	530	250 µg/L	05/27/11 11:33	05/27/11 15:48
	Nitrate (NO3) - N	870	250 µg/L	05/27/11 11:33	05/27/11 15:48
	Sulfate (SO4)	25,000	500 µg/L	05/27/11 11:33	05/27/11 15:48



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ND = Not Detected

Reported in micrograms per Liter, per client request.

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.

6/6/11

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-1				
Lab ID : STR11052641-01A Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 09:21 Ethanol	ND	5.0 µg/L	05/31/11	06/01/11
Client ID: MW-2				
Lab ID : STR11052641-02A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:32 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-3				
Lab ID : STR11052641-03A Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 07:05 Ethanol	ND	5.0 µg/L	05/31/11	06/01/11
Client ID: MW-4				
Lab ID : STR11052641-04A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:43 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-5				
Lab ID : STR11052641-05A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 06:15 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-5B				
Lab ID : STR11052641-06A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:11 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-6				
Lab ID : STR11052641-07A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:22 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-6B				
Lab ID : STR11052641-08A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 08:17 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-7				
Lab ID : STR11052641-09A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 05:16 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-10				
Lab ID : STR11052641-10A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:01 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11
Client ID: MW-11				
Lab ID : STR11052641-11A Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 09:36 Ethanol	ND	5.0 µg/L	05/31/11	05/31/11



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Client ID: **MW-12A**

Lab ID : STR11052641-12A	Methanol	ND	50 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 09:03	Ethanol	ND	5.0 µg/L	05/31/11	05/31/11

Client ID: **MW-12B**

Lab ID : STR11052641-13A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 09:08	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11

Client ID: **MW-13A**

Lab ID : STR11052641-14A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 10:55	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11

Client ID: **EX-1**

Lab ID : STR11052641-15A	Methanol	ND	50 µg/L	05/31/11	06/01/11
Date Sampled 05/26/11 10:46	Ethanol	ND	5.0 µg/L	05/31/11	06/01/11

ND = Not Detected

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.

6/6/11

Report Date



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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: MW-2					
Lab ID : STR11052641-02A	Magnesium (Mg)	38,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 10:32	Aluminum (Al)	31,000	200 µg/L	05/27/11	05/27/11
	Potassium (K)	3,900	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	39,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	1,400	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	150	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	40	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	14	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	500	5.0 µg/L	05/27/11	05/27/11
Client ID: MW-4					
Lab ID : STR11052641-04A	Magnesium (Mg)	38,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 08:43	Aluminum (Al)	33,000	200 µg/L	05/27/11	05/27/11
	Potassium (K)	3,700	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	34,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	5,900	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	71	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	43	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	16	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	420	5.0 µg/L	05/27/11	05/27/11
Client ID: MW-5					
Lab ID : STR11052641-05A	Magnesium (Mg)	25,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 06:15	Aluminum (Al)	2,700	200 µg/L	05/27/11	05/27/11
	Potassium (K)	ND	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	26,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	3,500	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	88	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	6.5	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	140	5.0 µg/L	05/27/11	05/27/11
Client ID: MW-6					
Lab ID : STR11052641-07A	Magnesium (Mg)	33,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 08:22	Aluminum (Al)	3,700	200 µg/L	05/27/11	05/27/11
	Potassium (K)	520	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	30,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	4,700	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	12	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	7.3	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	120	5.0 µg/L	05/27/11	05/27/11



Alpha Analytical, Inc.

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Client ID: **MW-10**

Lab ID : STR11052641-10A	Magnesium (Mg)	14,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 10:01	Aluminum (Al)	790	200 µg/L	05/27/11	05/27/11
	Potassium (K)	ND	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	17,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	16	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	30	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	ND	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	85	5.0 µg/L	05/27/11	05/27/11

Client ID: **EX-1**

Lab ID : STR11052641-15A	Magnesium (Mg)	26,000	500 µg/L	05/27/11	05/27/11
Date Sampled 05/26/11 10:46	Aluminum (Al)	560	200 µg/L	05/27/11	05/27/11
	Potassium (K)	900	500 µg/L	05/27/11	05/27/11
	Calcium (Ca)	45,000	500 µg/L	05/27/11	05/27/11
	Manganese (Mn)	460	5.0 µg/L	05/27/11	05/27/11
	Nickel (Ni)	21	10 µg/L	05/27/11	05/27/11
	Copper (Cu)	ND	10 µg/L	05/27/11	05/27/11
	Arsenic (As)	ND	5.0 µg/L	05/27/11	05/27/11
	Barium (Ba)	96	5.0 µg/L	05/27/11	05/27/11

ND = Not Detected

Reported in micrograms per Liter, per client request.

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.

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6/6/11

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-2 Lab ID : STR11052641-02A Sulfide Date Sampled 05/26/11 10:32	ND	100 µg/L	05/31/11	05/31/11
Client ID: MW-4 Lab ID : STR11052641-04A Sulfide Date Sampled 05/26/11 08:43	ND	100 µg/L	05/31/11	05/31/11
Client ID: MW-5 Lab ID : STR11052641-05A Sulfide Date Sampled 05/26/11 06:15	ND	100 µg/L	05/31/11	05/31/11
Client ID: MW-6 Lab ID : STR11052641-07A Sulfide Date Sampled 05/26/11 08:22	240	100 µg/L	05/31/11	05/31/11
Client ID: MW-10 Lab ID : STR11052641-10A Sulfide Date Sampled 05/26/11 10:01	ND	100 µg/L	05/31/11	05/31/11
Client ID: EX-1 Lab ID : STR11052641-15A Sulfide Date Sampled 05/26/11 10:46	ND	100 µg/L	05/31/11	05/31/11

ND = Not Detected
Reported in micrograms per Liter, per client request.

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.

6/6/11

Report Date



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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/26/11

Job: Foothill Mini Mart

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed		
Client ID : MW-1						
Lab ID : STR11052641-01A	TPH-P (GRO)	57	50 µg/L	05/31/11	05/31/11	
Date Sampled 05/26/11 09:21	Tertiary Butyl Alcohol (TBA)	81	10 µg/L	05/31/11	05/31/11	
	Methyl tert-butyl ether (MTBE)	100	0.50 µg/L	05/31/11	05/31/11	
	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11	
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11	
	Benzene	ND	0.50 µg/L	05/31/11	05/31/11	
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11	
	Toluene	ND	0.50 µg/L	05/31/11	05/31/11	
	Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11	
	m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11	
	o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11	
Client ID : MW-2						
Lab ID : STR11052641-02A	TPH-P (GRO)	ND	V	500 µg/L	05/31/11	05/31/11
Date Sampled 05/26/11 10:32	Tertiary Butyl Alcohol (TBA)	5,400	50 µg/L	05/31/11	05/31/11	
	Methyl tert-butyl ether (MTBE)	27	2.5 µg/L	05/31/11	05/31/11	
	Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	05/31/11	05/31/11
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	05/31/11	05/31/11
	Benzene	ND	V	2.5 µg/L	05/31/11	05/31/11
	Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	05/31/11	05/31/11
	Toluene	ND	V	2.5 µg/L	05/31/11	05/31/11
	Ethylbenzene	ND	V	2.5 µg/L	05/31/11	05/31/11
	m,p-Xylene	ND	V	2.5 µg/L	05/31/11	05/31/11
	o-Xylene	ND	V	2.5 µg/L	05/31/11	05/31/11
Client ID : MW-3						
Lab ID : STR11052641-03A	TPH-P (GRO)	54	50 µg/L	05/31/11	05/31/11	
Date Sampled 05/26/11 07:05	Tertiary Butyl Alcohol (TBA)	590	10 µg/L	05/31/11	05/31/11	
	Methyl tert-butyl ether (MTBE)	4.9	0.50 µg/L	05/31/11	05/31/11	
	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11	
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11	
	Benzene	ND	0.50 µg/L	05/31/11	05/31/11	
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11	
	Toluene	ND	0.50 µg/L	05/31/11	05/31/11	
	Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11	
	m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11	
	o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11	



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Client ID : MW-4						
Lab ID :	STR11052641-04A	TPH-P (GRO)	4,000	500 µg/L	06/01/11	06/01/11
Date Sampled	05/26/11 08:43	Tertiary Butyl Alcohol (TBA)	1,400	50 µg/L	06/01/11	06/01/11
		Methyl tert-butyl ether (MTBE)	3.7	2.5 µg/L	06/01/11	06/01/11
		Di-isopropyl Ether (DIPE)	ND	V	06/01/11	06/01/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	06/01/11	06/01/11
		Benzene	ND	V	06/01/11	06/01/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	06/01/11	06/01/11
		Toluene	ND	V	06/01/11	06/01/11
		Ethylbenzene	2.6	2.5 µg/L	06/01/11	06/01/11
		m,p-Xylene	ND	V	06/01/11	06/01/11
		o-Xylene	ND	V	06/01/11	06/01/11
Client ID : MW-5						
Lab ID :	STR11052641-05A	TPH-P (GRO)	230	200 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 06:15	Tertiary Butyl Alcohol (TBA)	1,300	20 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	3.5	1.0 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	V	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	05/31/11	05/31/11
		Benzene	ND	V	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	05/31/11	05/31/11
		Toluene	ND	V	05/31/11	05/31/11
		Ethylbenzene	ND	V	05/31/11	05/31/11
		m,p-Xylene	ND	V	05/31/11	05/31/11
		o-Xylene	ND	V	05/31/11	05/31/11
Client ID : MW-5B						
Lab ID :	STR11052641-06A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 08:11	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	3.2	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID : MW-6						
Lab ID :	STR11052641-07A	TPH-P (GRO)	5,500	200 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 08:22	Tertiary Butyl Alcohol (TBA)	640	20 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	230	1.0 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	V	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	05/31/11	05/31/11
		Benzene	54	1.0 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	V	05/31/11	05/31/11
		Toluene	ND	V	05/31/11	05/31/11
		Ethylbenzene	23	1.0 µg/L	05/31/11	05/31/11
		m,p-Xylene	29	1.0 µg/L	05/31/11	05/31/11
		o-Xylene	1.4	1.0 µg/L	05/31/11	05/31/11



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Client ID :	MW-6B					
Lab ID :	STR11052641-08A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 08:17	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID :	MW-7					
Lab ID :	STR11052641-09A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 05:16	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	2.8	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID :	MW-10					
Lab ID :	STR11052641-10A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 10:01	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
Client ID :	MW-11					
Lab ID :	STR11052641-11A	TPH-P (GRO)	ND	50 µg/L	05/31/11	05/31/11
Date Sampled	05/26/11 09:36	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	05/31/11	05/31/11
		Methyl tert-butyl ether (MTBE)	17	0.50 µg/L	05/31/11	05/31/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	05/31/11	05/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	05/31/11	05/31/11
		Benzene	ND	0.50 µg/L	05/31/11	05/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	05/31/11	05/31/11
		Toluene	ND	0.50 µg/L	05/31/11	05/31/11
		Ethylbenzene	ND	0.50 µg/L	05/31/11	05/31/11
		m,p-Xylene	ND	0.50 µg/L	05/31/11	05/31/11
		o-Xylene	ND	0.50 µg/L	05/31/11	05/31/11



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Client ID	Lab ID	Date Sampled	Compound	Concentration	Unit	Analysis Date	Release Date
MW-12A	STR11052641-12A	05/26/11 09:03	TPH-P (GRO)	140	µg/L	05/31/11	05/31/11
			Tertiary Butyl Alcohol (TBA)	ND	µg/L	05/31/11	05/31/11
			Methyl tert-butyl ether (MTBE)	250	µg/L	05/31/11	05/31/11
			Di-isopropyl Ether (DIPE)	ND	µg/L	05/31/11	05/31/11
			Ethyl Tertiary Butyl Ether (ETBE)	ND	µg/L	05/31/11	05/31/11
			Benzene	ND	µg/L	05/31/11	05/31/11
			Tertiary Amyl Methyl Ether (TAME)	ND	µg/L	05/31/11	05/31/11
			Toluene	ND	µg/L	05/31/11	05/31/11
			Ethylbenzene	ND	µg/L	05/31/11	05/31/11
			m,p-Xylene	ND	µg/L	05/31/11	05/31/11
o-Xylene	ND	µg/L	05/31/11	05/31/11			
MW-12B	STR11052641-13A	05/26/11 09:08	TPH-P (GRO)	ND	µg/L	05/31/11	05/31/11
			Tertiary Butyl Alcohol (TBA)	ND	µg/L	05/31/11	05/31/11
			Methyl tert-butyl ether (MTBE)	0.80	µg/L	05/31/11	05/31/11
			Di-isopropyl Ether (DIPE)	ND	µg/L	05/31/11	05/31/11
			Ethyl Tertiary Butyl Ether (ETBE)	ND	µg/L	05/31/11	05/31/11
			Benzene	ND	µg/L	05/31/11	05/31/11
			Tertiary Amyl Methyl Ether (TAME)	ND	µg/L	05/31/11	05/31/11
			Toluene	ND	µg/L	05/31/11	05/31/11
			Ethylbenzene	ND	µg/L	05/31/11	05/31/11
			m,p-Xylene	ND	µg/L	05/31/11	05/31/11
o-Xylene	ND	µg/L	05/31/11	05/31/11			
MW-13A	STR11052641-14A	05/26/11 10:55	TPH-P (GRO)	840	µg/L	05/31/11	05/31/11
			Tertiary Butyl Alcohol (TBA)	33	µg/L	05/31/11	05/31/11
			Methyl tert-butyl ether (MTBE)	8.3	µg/L	05/31/11	05/31/11
			Di-isopropyl Ether (DIPE)	ND	µg/L	05/31/11	05/31/11
			Ethyl Tertiary Butyl Ether (ETBE)	ND	µg/L	05/31/11	05/31/11
			Benzene	ND	µg/L	05/31/11	05/31/11
			Tertiary Amyl Methyl Ether (TAME)	ND	µg/L	05/31/11	05/31/11
			Toluene	ND	µg/L	05/31/11	05/31/11
			Ethylbenzene	ND	µg/L	05/31/11	05/31/11
			m,p-Xylene	ND	µg/L	05/31/11	05/31/11
o-Xylene	ND	µg/L	05/31/11	05/31/11			
EX-1	STR11052641-15A	05/26/11 10:46	TPH-P (GRO)	600	µg/L	05/31/11	05/31/11
			Tertiary Butyl Alcohol (TBA)	6,700	µg/L	05/31/11	05/31/11
			Methyl tert-butyl ether (MTBE)	730	µg/L	05/31/11	05/31/11
			Di-isopropyl Ether (DIPE)	ND	V	05/31/11	05/31/11
			Ethyl Tertiary Butyl Ether (ETBE)	ND	V	05/31/11	05/31/11
			Benzene	ND	V	05/31/11	05/31/11
			Tertiary Amyl Methyl Ether (TAME)	ND	V	05/31/11	05/31/11
			Toluene	ND	V	05/31/11	05/31/11
			Ethylbenzene	ND	V	05/31/11	05/31/11
			m,p-Xylene	ND	V	05/31/11	05/31/11
o-Xylene	ND	V	05/31/11	05/31/11			



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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

Reported in micrograms per Liter, per client request.

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

6/6/11

Report Date



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VOC Sample Preservation Report

Work Order: STR11052641

Job: Foothill Mini Mart

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11052641-01A	MW-1	Aqueous	2
11052641-02A	MW-2	Aqueous	2
11052641-03A	MW-3	Aqueous	2
11052641-04A	MW-4	Aqueous	2
11052641-05A	MW-5	Aqueous	2
11052641-06A	MW-5B	Aqueous	2
11052641-07A	MW-6	Aqueous	2
11052641-08A	MW-6B	Aqueous	2
11052641-09A	MW-7	Aqueous	2
11052641-10A	MW-10	Aqueous	2
11052641-11A	MW-11	Aqueous	2
11052641-12A	MW-12A	Aqueous	2
11052641-13A	MW-12B	Aqueous	2
11052641-14A	MW-13A	Aqueous	2
11052641-15A	EX-1	Aqueous	2

6/6/11
Report Date



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Date:
01-Jun-11

QC Summary Report

Work Order:
11052641

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: 21

Batch ID: **26634**

Analysis Date: **05/27/2011 12:43**

Sample ID: **MB-26634**

Units: **µg/L**

Run ID: **IC_1_110527A**

Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Bromide	ND	250								
Nitrate (NO3) - N	ND	250								
Sulfate (SO4)	ND	500								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: 22

Batch ID: **26634**

Analysis Date: **05/27/2011 13:02**

Sample ID: **LFB-26634**

Units: **µg/L**

Run ID: **IC_1_110527A**

Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	4730	250	5000		95	90	110			
Bromide	4760	250	5000		95	90	110			
Nitrate (NO3) - N	5020	250	5000		100	90	110			
Sulfate (SO4)	94300	500	100000		94	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: 40

Batch ID: **26634**

Analysis Date: **05/27/2011 18:35**

Sample ID: **11052705-05ALFM**

Units: **µg/L**

Run ID: **IC_1_110527A**

Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	9580	250	10000	0	96	80	120			
Bromide	10700	250	10000	0	107	80	120			
Nitrate (NO3) - N	10400	250	10000	0	104	80	120			
Sulfate (SO4)	220000	500	200000	46380	87	80	120			

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: 41

Batch ID: **26634**

Analysis Date: **05/27/2011 18:54**

Sample ID: **11052705-05ALFMD**

Units: **µg/L**

Run ID: **IC_1_110527A**

Prep Date: **05/27/2011 11:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	9530	250	10000	0	95	80	120	9576	0.5(15)	
Bromide	10000	250	10000	0	100	80	120	10690	6.5(15)	
Nitrate (NO3) - N	10300	250	10000	0	103	80	120	10390	0.9(15)	
Sulfate (SO4)	223000	500	200000	46380	88	80	120	220100	1.1(15)	

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.

Reported in micrograms per Liter, per client request.



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Date:
02-Jun-11

QC Summary Report

Work Order:
11052641

Method Blank

Type MBLK Test Code: EPA Method SW8260B-DI

File ID: C:\HPCHEM\MS11\DATA\110531\11053109.D

Batch ID: 26645

Analysis Date: 05/31/2011 19:40

Sample ID: MBLK-26645

Units: µg/L

Run ID: MSD_11_110531A

Prep Date: 05/31/2011 12:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	ND	50								
Ethanol	ND	5								
Surr: Hexafluoro-2-propanol	547		500		109	61	134			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B-DI

File ID: C:\HPCHEM\MS11\DATA\110531\11053105.D

Batch ID: 26645

Analysis Date: 05/31/2011 18:18

Sample ID: LCS-26645

Units: µg/L

Run ID: MSD_11_110531A

Prep Date: 05/31/2011 12:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	255	50	250		102	44	145			
Ethanol	244	5	250		97	62	150			
Surr: Hexafluoro-2-propanol	517		500		103	61	134			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B-DI

File ID: C:\HPCHEM\MS11\DATA\110531\11053107.D

Batch ID: 26645

Analysis Date: 05/31/2011 18:59

Sample ID: 11052641-02AMS

Units: µg/L

Run ID: MSD_11_110531A

Prep Date: 05/31/2011 12:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	237	50	250	0	95	33	159			
Ethanol	243	5	250	0	97	56	153			
Surr: Hexafluoro-2-propanol	572		500		114	61	134			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B-DI

File ID: C:\HPCHEM\MS11\DATA\110531\11053108.D

Batch ID: 26645

Analysis Date: 05/31/2011 19:20

Sample ID: 11052641-02AMSD

Units: µg/L

Run ID: MSD_11_110531A

Prep Date: 05/31/2011 12:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	226	50	250	0	90	33	159	237.2	5.0(28)	
Ethanol	218	5	250	0	87	56	153	243.4	10.9(40)	
Surr: Hexafluoro-2-propanol	515		500		103	61	134			

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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Date:
01-Jun-11

QC Summary Report

Work Order:
11052641

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\094_M.D**

Batch ID: **26637**

Analysis Date: **05/27/2011 17:54**

Sample ID: **MB-26637**

Units : **µg/L**

Run ID: **ICP/MS_110527B**

Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	ND	500								
Aluminum (Al)	ND	200								
Potassium (K)	ND	500								
Calcium (Ca)	ND	500								
Manganese (Mn)	ND	5								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	10								
Arsenic (As)	ND	5								
Barium (Ba)	ND	5								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\095_M.D**

Batch ID: **26637**

Analysis Date: **05/27/2011 18:00**

Sample ID: **LCS-26637**

Units : **µg/L**

Run ID: **ICP/MS_110527B**

Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	52600	500	50000		105	80	120			
Aluminum (Al)	52100	200	50000		104	80	120			
Potassium (K)	52900	500	50000		106	80	120			
Calcium (Ca)	52000	500	50000		104	80	120			
Manganese (Mn)	2630	5	2500		105	80	120			
Nickel (Ni)	258	10	250		103	80	120			
Copper (Cu)	264	10	250		105	80	120			
Arsenic (As)	267	5	250		107	80	120			
Barium (Ba)	2670	5	2500		107	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\100_M.D**

Batch ID: **26637**

Analysis Date: **05/27/2011 18:28**

Sample ID: **11052503-01AMS**

Units : **µg/L**

Run ID: **ICP/MS_110527B**

Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	84100	500	50000	36890	94	75	125			
Aluminum (Al)	49600	200	50000	0	99	75	125			
Potassium (K)	70300	500	50000	20870	99	75	125			
Calcium (Ca)	244000	500	50000	206100	76	75	125			
Manganese (Mn)	5540	5	2500	3353	87	75	125			
Nickel (Ni)	307	10	250	59.35	99	75	125			
Copper (Cu)	255	10	250	0	102	75	125			
Arsenic (As)	4460	5	250	4308	59	75	125			M3
Barium (Ba)	2650	5	2500	12.39	105	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052611.B\101_M.D**

Batch ID: **26637**

Analysis Date: **05/27/2011 18:34**

Sample ID: **11052503-01AMSD**

Units : **µg/L**

Run ID: **ICP/MS_110527B**

Prep Date: **05/27/2011 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Magnesium (Mg)	90800	500	50000	36890	108	75	125	84120	7.6(20)	
Aluminum (Al)	53600	200	50000	0	107	75	125	49600	7.7(20)	
Potassium (K)	76000	500	50000	20870	110	75	125	70320	7.8(20)	
Calcium (Ca)	262000	500	50000	206100	113	75	125	244100	7.2(20)	
Manganese (Mn)	5920	5	2500	3353	103	75	125	5540	6.6(20)	
Nickel (Ni)	326	10	250	59.35	107	75	125	307.1	6.1(20)	
Copper (Cu)	272	10	250	0	109	75	125	254.6	6.7(20)	
Arsenic (As)	4700	5	250	4308	157	75	125	4455	5.4(20)	M3
Barium (Ba)	2800	5	2500	12.39	112	75	125	2647	5.8(20)	

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.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

Reported in micrograms per Liter, per client request.



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Date:
01-Jun-11

QC Summary Report

Work Order:
11052641

Method Blank

File ID:		Type MBLK	Test Code: SM4500-S D	Batch ID: W0531SU	Analysis Date: 05/31/2011 00:00
Sample ID:	MBLK-W0531SU	Units : µg/L	Run ID: WETLAB_110531C	Prep Date: 05/31/2011 00:00	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfide	ND	100			

Laboratory Control Spike

File ID:		Type LCS	Test Code: SM4500-S D	Batch ID: W0531SU	Analysis Date: 05/31/2011 00:00
Sample ID:	LCS-W0531SU	Units : µg/L	Run ID: WETLAB_110531C	Prep Date: 05/31/2011 00:00	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfide	947	100	1000		95 62 142

Sample Matrix Spike

File ID:		Type MS	Test Code: SM4500-S D	Batch ID: W0531SU	Analysis Date: 05/31/2011 00:00
Sample ID:	11052641-02AMS	Units : µg/L	Run ID: WETLAB_110531C	Prep Date: 05/31/2011 00:00	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfide	972	100	1000	0	97 42 145

Sample Matrix Spike Duplicate

File ID:		Type MSD	Test Code: SM4500-S D	Batch ID: W0531SU	Analysis Date: 05/31/2011 00:00
Sample ID:	11052641-02AMSD	Units : µg/L	Run ID: WETLAB_110531C	Prep Date: 05/31/2011 00:00	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Sulfide	1000	100	1000	0	100 42 145 972 2.9(20)

Comments:

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Date:
02-Jun-11

QC Summary Report

Work Order:
11052641

Method Blank

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

File ID: C:\HPCHEM\MS07\DATA\110531\11053107.D

Batch ID: **MS07W0531B**

Analysis Date: **05/31/2011 10:59**

Sample ID: **MBLK MS07W0531B**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 10:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS07\DATA\110531\11053104.D

Batch ID: **MS07W0531B**

Analysis Date: **05/31/2011 09:47**

Sample ID: **GLCS MS07W0531B**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 09:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	431	50	400		108	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.77		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS07\DATA\110531\11053112.D

Batch ID: **MS07W0531B**

Analysis Date: **05/31/2011 13:00**

Sample ID: **11052641-01AGS**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 13:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1930	250	2000		56.77	94	51	144		
Surr: 1,2-Dichloroethane-d4	49.6		50		99	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.7		50		97	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS07\DATA\110531\11053113.D

Batch ID: **MS07W0531B**

Analysis Date: **05/31/2011 13:24**

Sample ID: **11052641-01AGSD**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 13:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2210	250	2000		56.77	108	51	144	1930	13.7(29)
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.6	70	130			

Comments:

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Reported in micrograms per Liter, per client request.



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Date:
02-Jun-11

QC Summary Report

Work Order:
11052641

Method Blank

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

File ID: **C:\HPCHEM\MS07\DATA\110531\11053107.D**

Batch ID: **MS07W0531A**

Analysis Date: **05/31/2011 10:59**

Sample ID: **MBLK MS07W0531A**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 10:59**

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								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS07\DATA\110531\11053103.D**

Batch ID: **MS07W0531A**

Analysis Date: **05/31/2011 09:23**

Sample ID: **LCS MS07W0531A**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 09:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.1	0.5	10		101	65	140			
Benzene	10.3	0.5	10		103	70	130			
Toluene	10.4	0.5	10		104	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.5	0.5	10		115	70	130			
o-Xylene	11.7	0.5	10		117	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.97		10		99.7	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS07\DATA\110531\11053110.D**

Batch ID: **MS07W0531A**

Analysis Date: **05/31/2011 12:12**

Sample ID: **11052641-01AMS**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 12:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	155	1.3	50	100.7	109	47	150			
Benzene	49.1	1.3	50	0	98	59	138			
Toluene	47.3	1.3	50	0	95	68	130			
Ethylbenzene	50.4	1.3	50	0	101	68	130			
m,p-Xylene	53.9	1.3	50	0	108	68	131			
o-Xylene	55.4	1.3	50	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	49.1		50		98	70	130			
Surr: Toluene-d8	47.2		50		94	70	130			
Surr: 4-Bromofluorobenzene	49.6		50		99	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS07\DATA\110531\11053111.D**

Batch ID: **MS07W0531A**

Analysis Date: **05/31/2011 12:36**

Sample ID: **11052641-01AMSD**

Units: **µg/L**

Run ID: **MSD_07_110531A**

Prep Date: **05/31/2011 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	167	1.3	50	100.7	133	47	150	155.3	7.5(40)	
Benzene	48	1.3	50	0	96	59	138	49.1	2.3(21)	
Toluene	48.2	1.3	50	0	96	68	130	47.34	1.8(20)	
Ethylbenzene	49.2	1.3	50	0	98	68	130	50.39	2.5(20)	
m,p-Xylene	52.9	1.3	50	0	106	68	131	53.87	1.8(20)	
o-Xylene	54.4	1.3	50	0	109	70	130	55.38	1.7(20)	
Surr: 1,2-Dichloroethane-d4	50.2		50		100	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	48.7		50		97	70	130			



Alpha Analytical, Inc.

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Date:
02-Jun-11

QC Summary Report

Work Order:
11052641

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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LABORATORIES

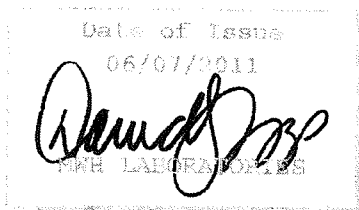
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attention: Reyna Vallejo
Fax: 775-355-0406



Report#: 366067
Project: SUBCONTRACT
Group: Bromate

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

**MWH****LABORATORIES****STATE CERTIFICATION LIST**

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Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0455	Nevada	CA00006-2010-1
Arkansas	Certified	New Hampshire	2959-10
California – NELAP	01114CA	New Jersey	CA 008
California – ELAP	1422	New Mexico	Certified
Colorado	Certified	New York	11320
Connecticut	PH-0107	North Carolina	6701
Delaware	CA 006	North Dakota	R-009
Florida	E871024	Oregon	CA 200003-007
Georgia	947	Pennsylvania	68-565
Guam	09-006r	Rhode Island	01114CA
Hawaii	Certified	South Carolina	87016001
Idaho	Certified	South Dakota	Certified
Illinois	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas	T104704230-10-1
Kansas	E-10268	Utah	Mont-1
Kentucky	90107	Vermont	VT0114
Louisiana	LA070018	Virginia	210
Maine	CA0006	Washington	C383-10a
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	0007,0008	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-Q
Michigan	9906	EPA Region 5	Certified



LABORATORIES

Acknowledgement of Samples Received

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, NV 89431
Attn: Reyna Vallejo
Phone: 775-355-1044

Customer Code: ALPHA-NV
Folder #: 366067
Project: SUBCONTRACT
Sample Group: Bromate
Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: STR11052641

The following samples were received from you on May 27, 2011. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Table with 3 columns: Sample #, Sample ID, Sample Date. Contains 7 rows of sample data including IDs like 201105270133, 201105270134, etc., and sample IDs like MW-2, MW-4, MW-5, MW-6, MW-10, EX-1.

Test Description



MWH

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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Alpha Analytical, Inc.

Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Laboratory
Hits Report: 366067

Samples Received on:
05/27/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
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MWH

LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Alpha Analytical, Inc.

Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Laboratory Data
Report: 366067

Samples Received on:
05/27/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-2 (201105270133)						Sampled on 05/26/2011 1032		
Variable ID: STR11052641-02A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	17:11	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-4 (201105270134)						Sampled on 05/26/2011 0843		
Variable ID: STR11052641-04A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	17:35	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-5 (201105270135)						Sampled on 05/26/2011 0615		
Variable ID: STR11052641-05A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	17:58	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-6 (201105270136)						Sampled on 05/26/2011 0822		
Variable ID: STR11052641-07A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	18:21	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
MW-10 (201105270137)						Sampled on 05/26/2011 1001		
Variable ID: STR11052641-10A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	19:08	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1
EX-1 (201105270138)						Sampled on 05/26/2011 1046		
Variable ID: STR11052641-15A								
EPA 317 - Bromate by UV/VIS 317								
06/02/2011	20:19	603748	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1	1

Rounding on totals after summation.
(c) - indicates calculated results



MWH

LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Alpha Analytical, Inc.
Reyna Vallejo
255 Glendale Avenue, Suite 21
Sparks, NV 89431

Laboratory Comments
Report: #366067



MWH

LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 366067

Alpha Analytical, Inc.

QC Ref # 603748 - Bromate by UV/VIS 317

Analysis Date: 06/02/2011

201105270133	MW-2
201105270134	MW-4
201105270135	MW-5
201105270136	MW-6
201105270137	MW-10
201105270138	EX-1

Analyzed by: TLH
Analyzed by: TLH
Analyzed by: TLH
Analyzed by: TLH
Analyzed by: TLH
Analyzed by: TLH



MWH

LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report: 366067

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 603748 - Bromate by UV/VIS 317 by EPA 317					Analysis Date: 06/02/2011				
LCS1	Bromate by UV/VIS		10	10.1	ug/L	101	(90-110)		
LCS2	Bromate by UV/VIS		10	10.6	ug/L	106	(90-110)	20	4.8
MBLK	Bromate by UV/VIS			<1	ug/L				
MRL_CHK	Bromate by UV/VIS		1.0	0.970	ug/L	97	(75-125)		
MS_201105230216	Bromate by UV/VIS	ND	5.0	4.36	ug/L	87	(75-125)		
MS_201105270137	Bromate by UV/VIS	ND	5.0	4.99	ug/L	100	(75-125)		
MSD_201105230216	Bromate by UV/VIS	ND	5.0	4.04	ug/L	81	(75-125)	15	7.7
MSD_201105270137	Bromate by UV/VIS	ND	5.0	4.85	ug/L	97	(75-125)	15	3.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

10/10

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 02, 2011

CLS Work Order #: CUE1084
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR11052641

Enclosed are the results of analyses for samples received by the laboratory on 05/26/11 14:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Page 2 of 4

06/02/11 09:51

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR11052641 Project Number: [none] Project Manager: Reyna Vallejo	CLS Work Order #: CUE1084 COC #:
----------------------------------------------------------------------------------	----------------------------------------------------------------------------------	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR11052641-02A (MW-2) (CUE1084-01) Aqueous Sampled: 05/26/11 10:32 Received: 05/26/11 14:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-04A (MW-4) (CUE1084-02) Aqueous Sampled: 05/26/11 08:43 Received: 05/26/11 14:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-05A (MW-5) (CUE1084-03) Aqueous Sampled: 05/26/11 06:15 Received: 05/26/11 14:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-07A (MW-6) (CUE1084-04) Aqueous Sampled: 05/26/11 08:22 Received: 05/26/11 14:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-10A (MW-10) (CUE1084-05) Aqueous Sampled: 05/26/11 10:01 Received: 05/26/11 14:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	
STR11052641-15A (EX-1) (CUE1084-06) Aqueous Sampled: 05/26/11 10:46 Received: 05/26/11 14:00									
Hexavalent Chromium	ND	1.0	µg/L	1	CU03691	05/27/11	05/27/11	EPA 7199	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Page 3 of 4

06/02/11 09:51

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR11052641 Project Number: [none] Project Manager: Reyna Vallejo	CLS Work Order #: CUE1084 COC #:
----------------------------------------------------------------------------------	----------------------------------------------------------------------------------	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CU03691 - General Prep										
Blank (CU03691-BLK1)										
Hexavalent Chromium	ND	1.0	µg/L							Prepared & Analyzed: 05/27/11
LCS (CU03691-BS1)										
Hexavalent Chromium	4.76	1.0	µg/L	5.00		95	80-120			Prepared & Analyzed: 05/27/11
LCS Dup (CU03691-BSD1)										
Hexavalent Chromium	4.67	1.0	µg/L	5.00		93	80-120	2	20	Prepared & Analyzed: 05/27/11
Matrix Spike (CU03691-MS1)										
Hexavalent Chromium	10.0	1.0	µg/L	5.00	5.63	88	75-125			Source: CUE1097-01 Prepared & Analyzed: 05/27/11
Matrix Spike Dup (CU03691-MSD1)										
Hexavalent Chromium	9.60	1.0	µg/L	5.00	5.63	79	75-125	4	25	Source: CUE1097-01 Prepared & Analyzed: 05/27/11

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Page 4 of 4

06/02/11 09:51

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR11052641
Project Number: [none]
Project Manager: Reyna Vallejo

CLS Work Order #: CUE1084
COC #:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com 916-638-7301 Fax: 916-638-4510

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

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

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

CA

WorkOrder : STR11052641

Report Due By : 5:00 PM On : 06-Jun-11

Client:

Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention

Phone Number

E-Mail Address

Scott Bittinger (530) 676-2062 x sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 55599,33096

Job : Foothill Mini Mart

Cooler Temp

Samples Received

Date Printed

6 °C

26-May-11

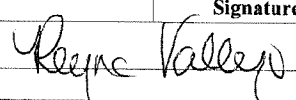
27-May-11

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	300_0_W	317_W	ALCOHOL_W	METALS_A_Q	METALS_C_R6_SUB_W	SULFIDE_W	TPH/P_W		VOC_W	
STR11052641-01A	MW-1	AQ	05/26/11 09:21	5	0	5			Low Level MeOH / EtOH					GAS-C	BTEX/OXY_C	
STR11052641-02A	MW-2	AQ	05/26/11 10:32	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C		
STR11052641-03A	MW-3	AQ	05/26/11 07:05	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C		
STR11052641-04A	MW-4	AQ	05/26/11 08:43	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C	Sulfide bottle labeled MW-6 matched up by sampling time.	
STR11052641-05A	MW-5	AQ	05/26/11 06:15	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C		
STR11052641-06A	MW-5B	AQ	05/26/11 08:11	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C		
STR11052641-07A	MW-6	AQ	05/26/11 08:22	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C		
STR11052641-08A	MW-6B	AQ	05/26/11 08:17	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C		

Comments:

Security seals intact. Frozen ice. Samples prelogged in order for Sac office to sub Cr+6 by 7199 to CLS and Bromate to MWH. Logged in samples -09A & -14A per bottles rec'd. Rest of samples rec'd 5/27/11. :

Signature	Print Name	Company	Date/Time
	Ryan Valley	Alpha Analytical, Inc.	5/27/11 10:30

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

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 : STR11052641
 Report Due By : 5:00 PM On : 06-Jun-11

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 550
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	E-Mail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

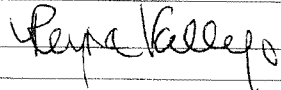
PO :
 Client's COC # : 55599,33096 Job : Foothill Mini Mart

Cooler Temp	Samples Received	Date Printed
6 °C	26-May-11	27-May-11

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	300_0_W	317_W	ALCOHOL_W	METALS_A_Q	METALS_C_R6_SUB_W	SULFIDE_W	TPH/P_W		VOC_W	
STR11052641-09A	MW-7	AQ	05/26/11 05:16	5	0	5			Low Level MeOH / EtOH					GAS-C	BTEX/OXY_C	
STR11052641-10A	MW-10	AQ	05/26/11 10:01	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C		
STR11052641-11A	MW-11	AQ	05/26/11 09:36	4	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C	1 HCL Voa rec'd broken	
STR11052641-12A	MW-12A	AQ	05/26/11 09:03	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C		
STR11052641-13A	MW-12B	AQ	05/26/11 09:08	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C		
STR11052641-14A	MW-13A	AQ	05/26/11 10:55	5	0	5			Low Level MeOH / EtOH				GAS-C	BTEX/OXY_C		
STR11052641-15A	EX-1	AQ	05/26/11 10:46	9	1	5	NO2, NO3, SO4, B	Bromate (Sub to MWH)	Low Level MeOH / EtOH	Spec. List	Cr6+ by 7199	Sulfide	GAS-C	BTEX/OXY_C		

Comments: Security seals intact. Frozen ice. Samples prelogged in order for Sac office to sub Cr+6 by 7199 to CLS and Bromate to MWH. Logged in samples -09A & -14A per bottles rec'd. Rest of samples rec'd 5/27/11. :

Signature	Print Name	Company	Date/Time
	Ryan Valley	Alpha Analytical, Inc.	5/27/11 10:50

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 Name Stratus
Attn: Scott
Address 3330 Cameron Pk DR
City, State, Zip Cameron TX
Phone Number 5306266004 Fax 5306266005



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

Samples Collected From Which State?

AZ CA NV WA DOD Site
ID OR OTHER Page # 1 of 2

Consultant / Client Name		Job #		Job Name		Analyses Required										Data Validation Level: III or IV	
Address				Name: <u>Scott</u>		Report Attention / Project Manager										EDD / EDF? YES <input type="checkbox"/> NO <input type="checkbox"/>	
City, State, Zip				Email:												Global ID #	
P.O. #				Phone:													
Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRD, BCEL	MTBE, TBA	1,2,4-D, B, P, T, X	5 OXYS	NITRATES	NITROGENS	SULFIDES	METALS	REMARKS
0921	5/26	AR	STR11050641	01	MW-1	STD		5	X	X	X						Metals
1032				02	MW-2				X	X	X	X	X	X	X	X	Magnesium
0705				03	MW-3			5	X	X	X						Manganese
0843				04	MW-4				X	X	X	X	X	X	X	X	Nickel
0615				05	MW-5				X	X	X	X	X	X	X	X	Copper
0311				06	MW-5B			5	X	X	X						Potassium
0822				07	MW-6				X	X	X	X	X	X	X	X	Calcium, Arsenic
0817				08	MW-6B			5	X	X	X						Total-Hex Chrom
0516		AQ		09	MW-7				X	X	X						Aluminum
																	barium
																	bromide
																	dry mate

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. 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. Sampled By: CHILL

Relinquished by: (Signature/Affiliation) <u>Rome Sabido / Stratus</u>	Received by: (Signature/Affiliation) <u>Sandra Silva</u>	Date: <u>5-26-11</u>	Time: <u>1305</u>
Relinquished by: (Signature/Affiliation) <u>Sandra Silva 5-26-11 1530</u>	Received by: (Signature/Affiliation) <u>Rome Sabido</u>	Date: <u>5/26/11</u>	Time: <u>10:30</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

Billing Information:

Company Name Stratus
 Attn: Scott
 Address 3330 Cameron Pk DR
 City, State, Zip Cameron Pk
 Phone Number 530 676 6004 Fax 530 676 6005



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

Samples Collected From Which State?

AZ ___ CA NV ___ WA ___ DOD Site ___
 ID ___ OR ___ OTHER ___ Page # 2 of 2

33096

Consultant / Client Name		Job #		Job Name		Analyses Required										Data Validation Level: III or IV			
Football Mini Mart				Report Attention / Project Manager															
Address		City, State, Zip		Name:												EDD / EDF? YES ___ NO ___			
Catalpa				Scott												Global ID #			
Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRD. BTEX	5 OXYS	LEAD DETECT	ETHANOL-METHANOL	TBA	AMMONIA	AMMONIUM	SULFIDES	SULFIDES	Metals	REMARKS
1001	5/14	AR		-10	MW-10	STD			X	X	X	X	X	X	X	X	X	X	Metals
0926				-11	MW-11			5	X	X	X								Magnesium
0903				-12	MW-12A			5	X	X	X								Manganese
0908				-13	MW-12B			5	X	X	X								Nickel
1055	5/26	AR		-14	MW-13A			5	X	X	X								Copper
1046	5/26			-15	EX-1				X	X	X	X	X	X	X	X	X	X	POTASSIUM
																			Calcium, Arsenic
																			Total-Hex Chrom
																			Aluminum
																			barium
																			Diomite
																			chromate

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. 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: DKH

Relinquished by: (Signature/Affiliation) <u>Vincent Z...</u> / Stratus	Received by: (Signature/Affiliation) <u>Sara deSilva</u>	Date: 5-26-11	Time: 1305
Relinquished by: (Signature/Affiliation) <u>Sara deSilva</u> S-26 11 15:30	Received by: (Signature/Affiliation) <u>Kevin...</u>	Date: 5/27/11	Time: 1030
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

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

APPENDIX D

**GEOTRACKER ELECTRONIC SUBMITTAL
CONFIRMATIONS**

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	GeoWell 5-26-11
<u>Facility Global ID:</u>	T0600102286
<u>Facility Name:</u>	FOOTHILL MINI MART
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	12.186.106.98
<u>Submittal Date/Time:</u>	6/10/2011 11:31:54 AM
<u>Confirmation Number:</u>	1339899718

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STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF - Monitoring Report - Quarterly
<u>Submittal Title:</u>	Analytical 5-26-11
<u>Facility Global ID:</u>	T0600102286
<u>Facility Name:</u>	FOOTHILL MINI MART
<u>File Name:</u>	11052641_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	12.186.106.98
<u>Submittal Date/Time:</u>	6/10/2011 11:33:43 AM
<u>Confirmation Number:</u>	2089167296

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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