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Ms. Karel Detterman
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

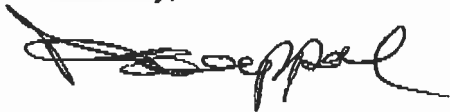
Re: Alaska Gas Service Station, 6211 San Pablo Avenue, Oakland, California
(ACEHS Case No. RO0000127)

Dear Ms. Detterman:

Stratus Environmental, Inc. (Stratus) has recently prepared a *Groundwater Monitoring and Sampling Results Report* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000127, located at 6211 San Pablo Avenue, 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,



Pritpaul Sappal



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

June 24, 2014
Project No. 2192-6211-01

Ms. Karel Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Groundwater Monitoring and Sampling Results Report, Spring 2014
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, California
Fuel Leak Case No. RO0000127

Dear Ms. Detterman:

Stratus Environmental, Inc. (Stratus) is submitting the attached report, on behalf of Pritpaul Sappal, for the Alaska Gas Service Station underground storage tank fuel leak case, located at 6211 San Pablo Avenue, Oakland, California. This report presents a summary of recent groundwater monitoring and sampling activities performed at the subject property. This report has been prepared in compliance with Alameda County Environmental Health Department and California Regional Water Quality Control Board (CRWQCB) requirements for underground storage tank (UST) investigations.

If you have any questions regarding this report, please contact Scott Bittinger at (530) 676-2062 or via email at sbittinger@stratusinc.net.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Scott G. Bittinger, P.G.
Project Manager

Gowri S. Kowtha, P.E.
Principal Engineer



Attachment: Groundwater Monitoring and Sampling Results Report, Spring 2014

cc: Mr. Pritpaul Sappal, Alaska Gas Service Station

June 24, 2014

**ALASKA GAS SERVICE STATION
GROUNDWATER MONITORING AND SAMPLING RESULTS REPORT**

Facility Address: 6211 San Pablo Avenue, Oakland, California
Consulting Co. / Contact Person: Stratus Environmental, Inc. / Scott Bittinger, P.G.
Consultant Project No: 2192-6211-01
Primary Agency/Regulatory ID No: Ms. Karel Detterman, Alameda County Environmental Health Department (ACEHD), Fuel Leak Case No. RO0000127

WORK PERFORMED THIS PERIOD (March to May 2014):

1. Stratus conducted a groundwater monitoring and sampling event on March 28, 2014. At this time 10 wells were gauged for depth to groundwater levels. Purge groundwater samples were collected from 9 of these wells; one well (offsite well MW-7) was not sampled due to the presence of free phase petroleum hydrocarbons.
2. Stratus returned to the site on May 28, 2014 to gauge and sample well MW-7. A sheen of free phase petroleum hydrocarbons was observed. Given the presence of sheen only, Stratus elected to sample the well. During well purging, a product sheen was noted on the extracted groundwater.

WORK PROPOSED FOR NEXT PERIOD (Third Quarter 2014):

1. A groundwater monitoring and sampling event will be conducted during the third quarter 2014.

Current Phase of Project:	<u>Verification Monitoring (VM)</u>
Frequency of Groundwater Monitoring:	<u>All monitoring wells = Semi-annually (1st & 3rd quarters)</u>
Frequency of Groundwater Sampling:	<u>All monitoring wells = Semi-annually (1st & 3rd quarters)</u>
Groundwater Sampling Date:	<u>March 28, 2014, May 28, 2014 for MW-7</u>
Are Free Phase Petroleum Hydrocarbons Present:	<u>Yes, offsite well MW-7, 0.03 feet on March 28, 2014 and 0.01 feet on May 28, 2014</u>
Depth to Groundwater:	<u>2.50 to 8.18 feet below the top of the well casing</u>
Groundwater Flow Direction :	<u>West-southwest</u>
Groundwater Gradient :	<u>0.01 ft/ft</u>

Stratus conducted first quarter groundwater monitoring and sampling activities on March 28, 2014. During this event, wells MW-1R, MW-2, MW-3R, MW-4R, and MW-5 through MW-10 were gauged for depth to groundwater and evaluated for the presence of free phase petroleum hydrocarbons. After well gauging, purge groundwater samples were collected from the site's monitoring wells, with the exception of MW-7 which contained measureable free phase petroleum hydrocarbons. In order to further evaluate conditions at well MW-7, Stratus returned to the site on May 28, 2014 to check for the presence of free phase petroleum hydrocarbons. After observing only a thin sheen (0.01 feet), a sample of purged groundwater was collected from MW-7 on this date.

Groundwater samples were forwarded to a state-certified analytical laboratory to be analyzed for gasoline range organics (GRO) by EPA Method SW8015B/SW8260B, for benzene, toluene, ethylbenzene, and xylene (BTEX compounds), methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), and

tertiary butyl alcohol (TBA) using EPA Method SW8260B. Table 2 provides depth to water measurements and groundwater elevations. Table 3 presents a summary of groundwater analytical data collected for the site's monitoring well network.

Field data sheets documenting measurements and observations collected by Stratus personnel are provided in Appendix A. A description of sampling and analysis procedures used by Stratus/laboratory personnel are provided in Appendix B. Certified analytical results provided by the analyzing laboratory (Alpha Analytical, Inc.) are presented in Appendix C. 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.

FINDINGS:

Groundwater levels beneath the property are relatively shallow, ranging from 2.5 to 8.2 feet below the top of the well casing on March 28, 2014. Using the available data, groundwater levels were corrected to elevation mean sea level and used to prepare a groundwater elevation contour map (Figure 3). On March 28, 2014, west-southwest groundwater flow, at a gradient of approximately 0.01 ft/ft, was observed.

Figure 4 presents a summary of GRO, benzene, MTBE, and TBA concentrations in shallow groundwater using the March and May 2014 well sampling results. GRO was detected in three onsite well samples, at concentrations ranging from 77 micrograms per liter ($\mu\text{g/L}$) to 1,200 $\mu\text{g/L}$. As stated earlier, free phase petroleum hydrocarbons were observed at offsite well MW-7 between March and May 2014. GRO was detected in offsite well samples MW-9 (at 55 $\mu\text{g/L}$) and MW-10 (95 $\mu\text{g/L}$), and at a level of 8,300 $\mu\text{g/L}$ in offsite well MW-7 on May 28, 2014. Benzene was detected in three onsite well samples, at a maximum level of 6.0 $\mu\text{g/L}$ (well MW-6). Benzene was also reported in offsite well MW-7 (43 $\mu\text{g/L}$). MTBE was detected in all 10 well samples; offsite concentrations ranged from 24 $\mu\text{g/L}$ to 340 $\mu\text{g/L}$ and onsite MTBE concentrations ranged from 0.51 $\mu\text{g/L}$ to 28 $\mu\text{g/L}$. TBA was detected in six of the ten well samples, at a maximum concentration of 33,000 $\mu\text{g/L}$ (well MW-8). TAME was detected in samples collected from well MW-3R (5.3 $\mu\text{g/L}$), MW-6 (2.0 $\mu\text{g/L}$), and MW-7 (9.7 $\mu\text{g/L}$).

DISCUSSION:

In May and June 2011, a soil excavation project was performed onsite in order to remove petroleum hydrocarbon mass from the subsurface. The approximate limits of the excavation cavity are depicted on Figure 2. In order to facilitate the excavation, several monitoring wells and numerous remediation wells that had been historically installed at the site were destroyed. In order to facilitate excavation, de-watering was performed, which allowed the excavation to extend to depths of approximately 10 to 12 feet bgs. After backfilling the excavation area, two replacement groundwater monitoring wells (MW-3R and MW-4R) were installed, near the historical locations of MW-3 and MW-4, respectively.

A review of Table 3 data appears to indicate that excavation and de-watering work has resulted in a significant reduction in fuel contaminant concentrations in groundwater onsite, in particular at well(s) MW-3/3R and MW-4/4R. In the area of the excavation, no GRO or BTEX were detected in groundwater samples, and relatively low levels of MTBE, TBA, and TAME were observed.

ATTACHMENTS:

- Table 1 Monitoring Well Construction Detail Summary
- Table 2 Groundwater Elevation Data
- Table 3 Groundwater Analytical Data
- Figure 1 Site Location Map
- Figure 2 Site Vicinity Map
- Figure 3 Groundwater Elevation Contour Map, Spring 2014
- Figure 4 Groundwater Analytical Summary, Spring 2014
- 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 Confirmations

TABLE 1
MONITORING WELL CONSTRUCTION DETAIL
SUMMARY

Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well I.D.	Installation Date	Well Diameter (inches)	Well Depth (feet)	Screen Interval (feet bgs)
MW-1*	Oct-1999	2	23	3-23
MW-1R	Jan-2004	2	23	3-23
MW-2	Oct-1999	2	21	6-21
MW-3**	Oct-1999	2	21	6-21
MW-3R	June-2011	2	15	5-15
MW-4**	Nov-2001	2	20	5-20
MW-4R	June-2011	2	15	5-15
MW-5	Nov-2001	2	25	5-25
MW-6	Nov-2001	2	25	5-25
MW-7	Feb-2010	2	16	6-16
MW-8	Feb-2010	2	15	5-15
MW-9	Feb-2010	2	15	5-15
MW-10	Feb-2010	2	15	5-15
EX-1**	Jan-2004	4	30	5-30

Notes:
bgs = below ground surface
* = Monitoring well destroyed approximately 2004
** = Monitoring well was destroyed on May 17, 2011

Information prior to February 2014, taken from the AEI Consultants,
Remedial Action Report / Groundwater Monitoring Report - 2nd Semester 2011, dated October 6, 2011.

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
MW-1	11/07/99	34.70	8.53	26.17
	03/08/01		6.32	28.38
	11/17/01		8.09	26.61
	03/31/02		7.18	27.52
	09/09/03		8.54	26.16
	12/09/03		7.50	27.20
	<i>Well Destroyed May 17, 2011</i>			
MW-1R	02/19/04	36.67	5.45	31.22
	05/24/04		8.58	28.09
	09/03/04		9.15	27.52
	02/17/05		6.57	30.10
	08/15/05		8.55	28.12
	11/17/05		8.41	28.26
	02/08/06		6.81	29.86
	05/05/06		7.46	29.21
	08/18/06		8.58	28.09
	12/01/06		6.56	30.11
	08/16/07		9.33	27.34
	11/08/07		8.83	27.84
	02/14/08		6.89	29.78
	05/15/08		8.53	28.14
	09/10/08		9.36	27.31
	11/18/08		8.82	27.85
	02/17/09		5.67	31.00
	05/15/09		7.79	28.88
	08/13/09		9.20	27.47
	02/23/10		6.67	30.00
08/12/10	8.74	27.93		
02/17/11	6.51	30.16		
08/17/11	8.78	27.89		
03/28/14	8.18	28.49		

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
MW-2	11/07/99	34.94	8.26	26.68
	03/08/01		5.89	29.05
	11/17/01		7.75	27.19
	03/31/02		6.68	28.26
	09/09/03		8.26	26.68
	12/09/03		7.20	27.74
	02/19/04		5.81	29.13
	05/24/04		7.79	27.15
	09/03/04		8.43	26.51
	11/02/04		7.65	27.29
	02/17/05		5.86	29.08
	05/26/05		6.39	28.55
	08/17/05		7.99	26.95
	11/17/05		7.88	27.06
	02/08/06		6.24	28.70
	05/05/06		6.89	28.05
	08/18/06		8.05	26.89
	12/01/06		7.58	27.36
	08/16/07		7.26	27.68
	11/08/07		7.81	27.13
	02/14/08	5.90	29.04	
	05/15/08	36.33	7.63	28.70
	09/10/08		8.43	27.90
	11/18/08		7.83	28.50
	02/17/09		4.92	31.41
	05/15/09		6.81	29.52
	08/13/09		8.23	28.10
	02/23/10		6.06	30.27
	08/12/10		7.70	28.63
	02/17/11		6.16	30.17
08/17/11	7.16		29.17	
03/28/14	7.60	28.73		

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)	
MW-3	11/07/99	33.74	7.55	26.19	
	03/08/01		5.36	28.38	
	11/17/01		7.18	26.56	
	03/31/02		6.27	27.47	
	09/09/03		7.52	26.22	
	12/09/03		6.45	27.29	
	02/19/04		5.56	28.18	
	05/24/04		6.99	26.75	
	09/03/04		7.53	26.21	
	11/02/04		6.88	26.86	
	02/17/05		5.01	28.73	
	08/15/05		7.71	26.03	
	11/17/05		7.56	26.18	
	02/08/06		6.00	27.74	
	05/05/06		6.65	27.09	
	08/18/06		7.73	26.01	
	12/01/06		8.51	25.23	
	08/16/07		7.62	26.12	
	11/08/07		7.52	26.22	
	02/14/08		5.60	28.14	
	05/15/08		35.12	7.23	27.89
	09/10/08			8.08	27.04
	11/18/08			7.52	27.60
	02/17/09			4.36	30.76
	05/15/09			6.50	28.62
	08/13/09			7.96	27.16
02/23/10			5.10	30.02	
08/12/10			7.40	27.72	
<i>Well Destroyed May 17, 2011</i>					
MW-3R	07/14/11	--	7.01	--	
	08/17/11		7.48	--	
	3828/14		7.68	--	

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
MW-4	11/17/01	32.38	5.75	26.63
	03/31/02		5.40	26.98
	12/09/03		--	--
	09/09/03		--	--
	05/24/04*		5.70	26.91
	02/19/04*		3.56	29.00
	05/05/06		5.60	26.78
	08/18/06		6.45	25.93
	12/01/06		5.95	26.43
	11/18/07		6.60	25.78
	02/14/08		4.28	28.10
	05/15/08	34.11	5.43	28.68
	09/10/08		7.26	26.85
	11/18/08		5.84	28.27
	02/17/09		2.67	31.44
	05/15/09		4.90	29.21
	08/13/09		6.02	28.09
	02/23/10		3.84	30.27
	08/12/10		5.65	28.46
	02/17/11		3.19	30.92
<i>Well Destroyed May 17, 2011</i>				
MW-4R	07/14/11	--	5.31	--
	08/17/11		5.78	--
	03/28/14		5.90	--

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
MW-5	11/17/01	33.75	6.22	27.53
	03/31/02		6.35	27.40
	09/09/03		7.08	26.67
	12/09/03		6.13	27.62
	02/19/04		5.11	28.64
	05/24/04		6.57	27.18
	09/03/04		7.01	26.74
	11/02/04		6.43	27.32
	05/24/05		6.02	27.73
	08/17/05		6.75	27.00
	11/17/05		6.47	27.28
	02/08/06		5.53	28.22
	05/05/06		6.10	27.65
	08/18/06		6.77	26.98
	12/01/06		6.47	27.28
	08/16/07		6.79	26.96
	11/08/07		6.43	27.32
	02/14/08		5.31	28.44
	05/15/08		35.17	6.29
	09/10/08	6.99		28.18
	11/18/08	6.41		28.76
	02/17/09	4.07		31.10
	05/15/09	5.59		29.58
	08/13/09	6.81		28.36
	02/23/10	5.05		30.12
	08/12/10	6.61		28.56
	02/17/11	5.03		30.14
	08/17/11	6.59		28.58
	03/28/14	6.97		28.20

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
MW-6	11/17/01	34.68	7.19	27.49
	03/31/02		6.58	28.10
	09/09/03		8.21	26.47
	12/09/03		7.11	27.57
	02/19/04		5.61	29.07
	05/24/04		--	--
	09/03/04		8.25	26.43
	11/02/04		7.57	27.11
	02/17/05		5.70	28.98
	08/15/05		7.91	26.77
	11/17/05		7.80	26.88
	02/08/06		6.16	28.52
	05/05/06		6.81	27.87
	08/18/06		7.97	26.71
	12/01/06		7.60	27.08
	08/16/07		7.94	26.74
	11/08/07		7.71	26.97
	02/14/08	5.83	28.85	
	05/15/08	36.07	7.51	28.56
	09/10/08		8.32	27.75
	11/18/08		7.73	28.34
	02/17/09		4.64	31.43
	05/15/09		6.89	29.18
	08/13/09		8.26	27.81
	02/23/10		5.76	30.31
	08/12/10		7.71	28.36
	02/17/11		4.89	31.18
08/17/11	7.78		28.29	
03/28/14	7.20	28.87		

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
MW-7	02/23/10	31.16	2.09	29.07
	08/12/10		4.14	27.02
	02/17/11		1.68	29.48
	08/17/11		4.01	27.15
	03/28/14		4.48	26.70*
	05/28/14		5.07	26.10*
MW-8	02/23/10	30.92	2.66	28.26
	08/12/10		4.16	26.76
	02/17/11		1.01	29.91
	08/17/11		4.41	26.51
	03/28/14		3.87	27.05
MW-9	02/23/10	28.90	2.84	26.06
	08/12/10		4.53	24.37
	02/17/11		1.93	26.97
	08/17/11		4.82	24.08
	03/28/14		4.65	24.25
MW-10	02/23/10	30.28	0.98	29.30
	08/12/10		3.47	26.81
	02/17/11		0.95	29.33
	08/17/11		3.39	26.89
	03/28/14		2.50	27.78

TABLE 2
GROUNDWATER ELEVATION DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date of Measurement	Well Casing Elevation (feet-MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet-MSL)
EX-1	02/19/04	33.28	3.96	29.32
	05/24/04*		5.56	28.25
	02/08/06		4.92	28.36
	05/05/06		5.15	28.13
	08/18/06		5.85	27.43
	12/01/06		4.96	28.32
	11/08/07		5.10	28.18
	02/14/08		3.51	29.77
	05/15/08		4.69	28.59
	09/10/08		5.46	27.82
	11/18/08		4.79	28.49
	02/17/09		1.86	31.42
	05/15/09		4.16	29.12
	08/13/09		8.36	24.92
	02/23/10		3.09	30.19
08/12/10		4.91	28.37	
02/17/11			2.53	30.75
<i>Well Destroyed May 17, 2011</i>				
Notes:				
* = Corrected for the presence of free phase petroleum hydrocarbons by the following formula: casing elevation - depth to water + (0.7 * free phase petroleum hydrocarbon thickness)				
-- = Not measured or Not Available				
MSL = mean sea level				
bgs = below ground surface				
Information prior to February 2014, taken from the AEI Consultants, <i>Remedial Action Report / Groundwater Monitoring Report - 2nd Semester 2011</i> , dated October 6, 2011.				

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA**

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-1	11/07/99	5,700	170	59	22	85	20,000	--	--	--	--	--	--
	03/08/01	17,000	480	150	52	170	38,000	--	--	--	--	--	--
	11/17/01	10,000	230	210	60	250	22,000	--	--	--	--	--	--
	03/31/02	12,000	61	ND	ND	29	35,000	--	--	--	--	--	--
	11/09/03	19,000	ND	ND	ND	ND	50,000	--	--	--	--	--	--
	12/09/03	22,000	150	ND	ND	ND	66,000	--	--	--	--	--	--
<i>Well Destroyed May 17, 2011</i>													
MW-1R	11/17/01	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/02	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/03	--	--	--	--	--	--	--	--	--	--	--	--
	12/09/03	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/04	1,800	95	130	44	200	220	--	--	--	--	--	--
	05/24/04	210	12	10	5.4	23	79	ND	ND	2.1	37	ND	ND
	09/03/04	300	1.5	7.1	9.4	42	81	ND	ND	1.6	ND	ND	ND
	11/02/04	290	14	30	9.5	45	45	ND	ND	1.1	ND	--	--
	02/17/05	530	3.4	ND	ND	2.6	1,000	ND	ND	100	ND	--	--
	05/24/05	--	--	--	--	--	--	ND	ND	610	ND	ND	ND
	08/15/05	2,500	64	240	61	210	2,300	ND	ND	210	ND	ND	ND
	11/17/05	2,500	66	290	75	290	1,300	ND	ND	110	1,600	ND	ND
	02/08/06	3,300	100	310	86	470	1,400	ND	ND	130	1,400	ND	ND
	05/05/06	3,400	170	350	97	550	1,100	ND	ND	100	2,400	ND	ND
	08/18/06	5,800	190	1,000	230	1,000	490	ND	ND	36	2,900	ND	ND
	12/01/06	410	1.7	6.3	1.2	47	100	ND	ND	4.7	100	ND	ND
	02/23/07	ND	ND	0.51	ND	1.4	3	ND	ND	ND	ND	ND	ND
	05/10/07	ND	ND	ND	ND	2.0	5.9	ND	ND	ND	ND	ND	ND
	08/16/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/08/07	1,300	11	82	54	270	1.4	ND	ND	ND	ND	ND	ND
	02/14/08	800	7.6	31	23	150	1.7	ND	ND	ND	ND	ND	ND
	05/15/08	3,200	20	200	110	550	4.2	<0.50	<0.50	1.0	<20	<0.50	<0.50
	09/10/08	1,000	6.5	22	19	120	2.3	<0.50	<0.50	<0.50	4.0	<0.50	<0.50
	11/18/08	430	4.1	18	12	100	1.8	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
02/17/09	220	3.6	6.1	2.0	41	1.3	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	
05/15/09	890	6.0	17	27	110	1.8	<0.50	<0.50	<0.50	3.9	<0.50	<0.50	
08/13/09	2,000	17	23	73	350	2.1	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	
02/23/10	3,200	31	77	120	810	3.9	<1.7	<1.7	<1.7	<6.7	<1.7	<1.7	
08/12/10	1,300	13	16	40	280	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	
02/17/11	210	4.0	1.7	13	21	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	
08/17/11	670	6.1	13	26	200	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	
03/28/14	1,200	3.7	11	34	299	1.2	--	--	<2.0[1]	<20	--	--	

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA**

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-2	11/07/99	6,000	1,300	92	50	400	6,800	--	--	--	--	--	--
	03/08/01	41,000	8,100	870	2,000	4,100	26,000	--	--	--	--	--	--
	11/17/01	18,000	3,700	180	610	640	16,000	--	--	--	--	--	--
	03/31/02	32,000	6,500	270	1,700	2,700	19,000	--	--	--	--	--	--
	09/09/03	24,000	4,600	ND	1,200	440	19,000	--	--	--	--	--	--
	12/09/03	31,000	6,200	170	1,600	2,700	19,000	--	--	--	--	--	--
	02/19/04	21,000	4,600	120	970	2,000	15,000	--	--	--	--	--	--
	05/24/04	1,200	120	3	63	67	1,900	ND	ND	ND	ND	ND	ND
	09/03/04	2,300	120	ND	51	70	1,700	ND	ND	26	ND	ND	ND
	11/02/04	530	35	ND	17	30	520	ND	ND	28	100	--	--
	02/17/05	18,000	2,100	31	800	680	20,000	ND	ND	1,000	ND	--	--
	05/24/05	22,000	3,200	52	1,400	1,700	16,000	ND	ND	--	--	ND	ND
	08/15/05	2,000	66	ND	46	47	2,400	ND	ND	95	880	ND	ND
	11/17/05	760	19	0.64	15	13	1,000	ND	ND	26	810	ND	ND
	02/08/06	10,000	1,500	8	660	380	4,300	ND	ND	120	2,800	ND	ND
	05/05/06	15,000	1,800	ND	1,200	1,200	5,800	ND	ND	150	4,300	ND	ND
	08/18/06	360	11	ND	13	9.7	160	ND	ND	4.6	600	ND	ND
	12/01/06	11,000	1,000	ND	990	910	2,100	ND	ND	87	2,000	ND	ND
	02/23/07	3,200	210	ND	270	85	900	ND	ND	33	1,400	ND	ND
	05/10/07	590	31	ND	39	22	200	ND	ND	5.9	250	ND	ND
	08/16/07	650	49	ND	71	49	100	ND	ND	3.5	82	ND	ND
	11/08/07	110	1.6	ND	1.9	1.6	23	ND	ND	0.64	48	ND	ND
	02/14/08	350	24	ND	12	5.9	190	ND	ND	7.7	320	ND	ND
	05/15/08	81	0.59	<0.50	0.71	0.66	38	<0.50	<0.50	1.4	54	<0.50	<0.50
	09/10/08	150	6.4	<0.50	8.4	5.1	14	<0.50	<0.50	0.55	38	<0.50	<0.50
	11/18/08	420	25	0.70	46	47	29	<0.50	<0.50	1.3	60	<0.50	<0.50
	02/17/09	460	23	0.96	51	37	26	<0.50	<0.50	1.4	61	<0.50	<0.50
	05/15/09	220	13	0.93	26	13	21	<0.50	<0.50	0.87	60	<0.50	<0.50
	08/13/09	110	7.0	<0.50	13	5.0	7.7	<0.50	<0.50	<0.50	26	<0.50	<0.50
	02/23/10	170	9.4	0.65	27	5.6	14	<0.50	<0.50	<0.50	36	<0.50	<0.50
	08/12/10	<50	1.1	<0.50	1.8	0.63	3.7	<0.50	<0.50	<0.50	6.3	<0.50	<0.50
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	8.3	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	08/17/11	<50	<0.5	<0.5	<0.5	<0.5	150	<2.5	<2.5	<2.5	<10	<2.5	<2.5
	03/28/14	<50	<0.50	<0.50	<0.50	<0.50	0.51	--	--	<1.0	<10	--	--

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA**

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-3	11/07/99	43,000	860	70	ND	65	120,000	--	--	--	--	--	--
	03/08/01	90,000	1,800	ND	ND	ND	210,000	--	--	--	--	--	--
	11/17/01	110,000	1,600	ND	ND	ND	300,000	--	--	--	--	--	--
	03/31/02	130,000	2,400	670	300	390	300,000	--	--	--	--	--	--
	09/09/03	190,000	1,600	ND	ND	ND	420,000	--	--	--	--	--	--
	12/09/03	170,000	2,000	ND	ND	ND	4,500,000	--	--	--	--	--	--
	02/19/04	86,000	1,800	630	ND	ND	160,000	--	--	--	--	--	--
	05/24/04	120,000	2,200	ND	180	220	400,000	ND	ND	15,000	ND	ND	ND
	09/03/04	180,000	2,000	ND	ND	ND	510,000	ND	ND	14,000	ND	ND	ND
	11/02/04	150,000	1,700	ND	ND	ND	350,000	ND	ND	31,000	140,000	--	--
	02/17/05	130,000	2,100	420	210	730	290,000	ND	ND	11,000	ND	--	--
	05/24/05	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/05	110,000	1,500	ND	ND	ND	260,000	ND	ND	21,000	25,000	ND	ND
	11/17/05	200,000	2,400	ND	ND	ND	580,000	ND	ND	24,000	49,000	ND	ND
	02/08/06	470,000	3,800	660	ND	790	490,000	ND	ND	26,000	49,000	ND	ND
	05/05/06	400,000	3,300	ND	ND	ND	590,000	ND	ND	21,000	86,000	ND	ND
	08/18/06	310,000	1,800	ND	ND	ND	440,000	ND	ND	23,000	79,000	ND	ND
	12/01/06	270,000	ND	ND	ND	ND	290,000	ND	ND	11,000	90,000	ND	ND
	02/23/07	220,000	ND	ND	ND	ND	260,000	ND	ND	15,000	33,000	ND	ND
	05/10/07	140,000	ND	ND	ND	ND	180,000	ND	ND	7,100	80,000	ND	ND
	08/16/07	69,000	ND	ND	ND	ND	85,000	ND	ND	3,400	180,000	ND	ND
	11/08/07	34,000	ND	ND	ND	ND	38,000	ND	ND	1,400	140,000	ND	ND
	02/14/08	41,000	ND	ND	ND	ND	44,000	ND	ND	1,900	110,000	ND	ND
	05/15/08	43,000	<100	<100	<100	<100	62,000	<100	<100	1,100	200,000	<100	<100
	09/10/08	1,600	14	8.6	7.7	23	21,000	<1,000	<1,000	<1,000	290,000	<1,000	<1,000
	11/18/08	4,500	86	150	100	590	29,000	<1,000	<1,000	<1,000	290,000	<1,000	<1,000
	02/17/09	2,500	45	53	35	160	16,000	<1,000	<1,000	<1,000	190,000	<1,000	<1,000
	05/15/09	2,000	15	21	13	35	13,000	<1,000	<1,000	<1,000	260,000	<1,000	<1,000
08/13/09	1,300	10	11	4.1	14	7,900	<1,200	<1,200	<1,200	250,000	<1,200	<1,200	
02/23/10	1,700	22	21	11	38	4,700	<1,700	<1,700	<1,700	260,000	<1,700	<1,700	
08/12/10	1,600	5.8	16	5.8	16	4,200	<1,200	<1,200	<1,200	250,000	<1,200	<1,200	
02/17/11	290	1.0	5.5	6.5	8.1	73	<50	<50	<50	8,500	<50	<50	
<i>Well Destroyed May 17, 2011</i>													
MW-3R	07/14/11	130	3.2	0.97	<0.5	1.2	1,200	<250	<250	<250	35,000	<250	<250
	08/17/11	64	<0.5	<0.5	<0.5	<0.5	260	<50	<50	<50	3,800	<50	<50
	03/28/14	<200[1]	<1.0[1]	<1.0[1]	<1.0[1]	<1.0[1]	28	--	--	5.3	1,400	--	--

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-4	11/17/01	64,000	960	1,400	360	1,600	140,000	--	--	--	--	--	--
	03/31/02	78,000	4,400	4,700	690	2,700	150,000	--	--	--	--	--	--
	09/06/07	49,000	710	840	ND	10,000	3,600	ND	ND	510	32,000	ND	ND
	11/08/07	64,000	1,300	2,600	1,000	8,500	1,500	ND	ND	360	14,000	ND	ND
	02/14/08	60,000	390	460	230	2,000	52,000	ND	ND	2,000	58,000	ND	ND
	05/15/08	22,000	670	130	740	2,700	3,300	<5.0	<5.0	340	35,000	<5.0	<5.0
	09/10/08	16,000	500	150	730	2,500	2,000	<250	<250	<250	65,000	<250	<250
	11/18/08	24,000	820	190	1,200	5,000	1,400	<50	<50	260	9,300	<50	<50
	02/17/09	17,000	350	170	620	2,600	360	<10	<10	82	2,100	<10	<10
	05/15/09	32,000	300	190	880	3,200	470	<10	<10	95	380	<10	<10
	08/13/09	29,000	320	250	980	3,400	350	<50	<50	61	10,000	<50	<50
	02/23/10	15,000	250	77	580	2,200	180	<5.0	<5.0	41	400	<5.0	<5.0
	08/12/10	17,000	200	47	580	1,400	150	<10	<10	28	1,800	<10	<10
02/17/11	7,600	190	15	260	440	130	<5.0	<5.0	29	790	<5.0	<5.0	
<i>Well Destroyed May 17, 2011</i>													
MW-4R	07/14/11	1,000	210	3.6	<2.5	32	7,800	<200	<200	390	41,000	<200	<200
	08/17/11	840	9.1	<5.0	<5.0	<5.0	4,500	<250	<250	310	26,000	<250	<250
	03/28/14	<50	<0.50	<0.50	<0.50	<0.50	3.6	--	--	<1.0	110	--	--

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA**

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-5	11/17/01	210	15	12	11	23	4.8	--	--	--	--	--	--
	03/31/02	120	11	7.4	6.1	16	4.2	--	--	--	--	--	--
	09/09/03	ND	1.5	ND	ND	ND	1.7	--	--	--	--	--	--
	12/09/03	130	32	ND	2.6	0.57	5	--	--	--	--	--	--
	02/19/04	ND	ND	ND	ND	ND	1.5	--	--	--	--	--	--
	05/24/04	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND
	09/03/04	100	6.4	ND	ND	0.79	4.2	ND	ND	ND	ND	ND	ND
	11/02/04	ND	2.6	ND	1.7	0.87	1	ND	ND	ND	ND	ND	ND
	02/17/05	51	0.74	ND	0.94	ND	1.5	ND	ND	ND	ND	ND	ND
	05/24/05	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
	08/15/05	ND	ND	ND	ND	ND	0.88	ND	ND	ND	ND	ND	ND
	11/17/05	71	0.81	ND	1.1	ND	1.4	ND	ND	ND	ND	ND	ND
	02/08/06	50	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
	05/05/06	ND	ND	ND	ND	ND	0.93	ND	ND	ND	ND	ND	ND
	08/18/06	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
	12/01/06	ND	0.69	ND	ND	0.52	0.97	ND	ND	ND	ND	ND	ND
	02/23/07	73	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND
	05/10/07	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND
	08/16/07	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND
	11/08/07	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND
	02/14/08	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND
	05/15/08	<50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<0.50	<0.50	<20	<0.50	<0.50
	09/10/08	480	17	1.8	2.7	0.59	12	<0.50	<0.50	<0.50	4.4	<0.50	<0.50
	11/18/08	130	2.3	1.6	<0.50	<0.50	7.3	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	02/17/09	170	<0.50	2.7	<0.50	<0.50	4.2	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	05/15/09	<50	<0.50	<0.50	<0.50	<0.50	7.6	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	08/13/09	380	19	2.1	3.8	0.88	11	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	02/23/10	<50	<0.50	0.87	<0.50	<0.50	1.9	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	08/12/10	120	1.5	2.9	0.74	3.5	13	<0.50	<0.50	<0.50	3.0	<0.50	<0.50
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	08/17/11	160	2.3	1.1	<0.5	<0.5	5.4	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	03/28/14	77	0.52	<0.50	<0.50	<0.50	5.2	--	--	<1.0	<10	--	--

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA**

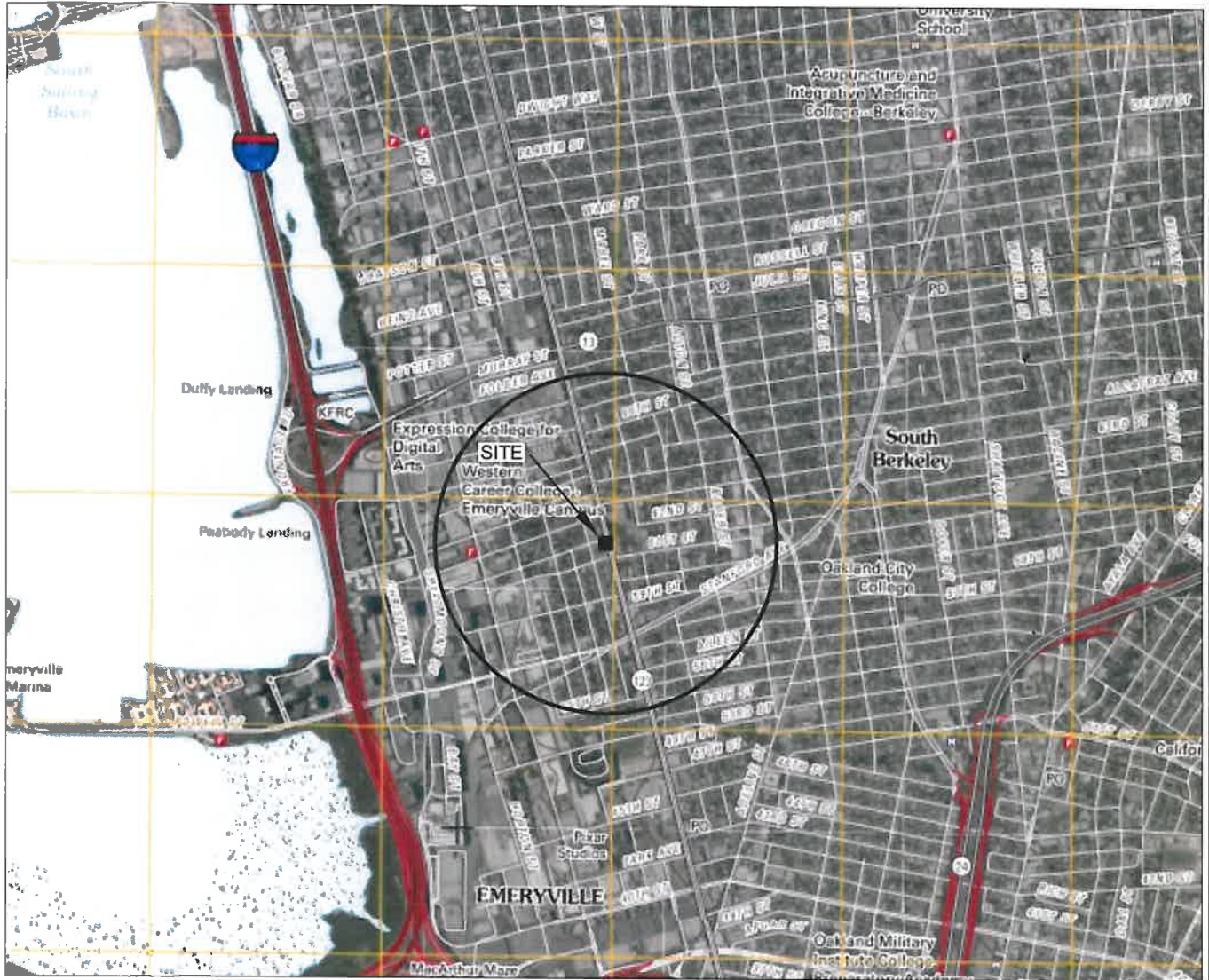
Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-6	11/17/01	3,500	160	260	95	420	1,500	--	--	--	--	--	--
	03/31/02	3,200	410	170	82	280	3,000	--	--	--	--	--	--
	09/09/03	800	49	ND	7.4	ND	1,700	--	--	--	--	--	--
	12/09/03	970	150	9.9	31	83	1,200	--	--	--	--	--	--
	02/19/04	1,900	280	58	17	160	2,700	--	--	--	--	--	--
	09/03/04	1,100	27	ND	14	27	2,200	ND	ND	85	ND	ND	ND
	11/02/04	1,800	32	ND	5	11	4,100	ND	ND	170	270	ND	ND
	02/17/05	5,600	190	34	41	110	10,000	ND	ND	780	2,000	ND	ND
	08/15/05	1,800	27	ND	6	23	3,800	ND	ND	300	3,500	ND	ND
	11/17/05	1,100	30	ND	4	9	2,400	ND	ND	190	9,500	ND	ND
	02/08/06	3,600	220	43	66	160	2,700	ND	ND	180	7,800	ND	ND
	05/05/06	1,600	130	21	37	65	1,400	ND	ND	53	3,100	ND	ND
	08/18/06	270	27	ND	3	4	240	ND	ND	11	2,400	ND	ND
	12/01/06	1,700	ND	ND	ND	ND	1,700	ND	ND	92	800	ND	ND
	02/23/07	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	05/10/07	ND	3.0	ND	ND	1.9	26	ND	ND	2	48	ND	ND
	08/16/07	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND
	11/08/07	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND
	02/14/08	ND	ND	ND	ND	ND	11	ND	ND	0.94	220	ND	ND
	05/15/08	<50	<0.50	<0.50	<0.50	<0.50	13	<0.50	<0.50	1.0	130	<0.50	<0.50
	09/10/08	78	1.4	0.60	0.94	1.3	71	<1.0	<1.0	6.2	160	<1.0	<1.0
	11/18/08	<50	2.4	<0.50	<0.50	0.70	72	<1.2	<1.2	7.2	180	<1.2	<1.2
	02/17/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	05/15/09	53	3.2	<0.50	<0.50	1.7	44	<1.0	<1.0	4.3	89	<1.0	<1.0
	08/13/09	74	5.9	0.57	0.97	5.0	27	<0.50	<0.50	2.2	140	<0.50	<0.50
	02/23/10	<50	0.66	<0.50	<0.50	0.57	5.7	<0.50	<0.50	<0.50	15	<0.50	<0.50
	08/12/10	92	7.5	0.94	<0.50	1.0	32	<1.0	<1.0	2.7	180	<1.0	<1.0
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	08/17/11	<50	<0.5	<0.5	<0.5	<0.5	73	<1.2	<1.2	7.7	130	<1.2	<1.2
	03/28/14	110	6.0	<0.50	2.2	1.1	14	--	--	2.0	36	--	--

TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA

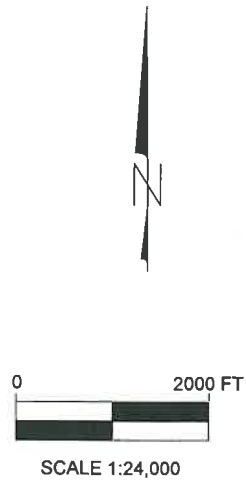
Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
MW-7	02/23/10	29,000	410	380	2,100	6,100	410	<10	<10	19	1,500	<10	<10
	08/12/10	2,000	26	17	140	250	2,400	<50	<50	75	9,600	<50	<50
	02/17/11	2,400	35	17	160	190	670	<10	<10	24	1,300	<10	<10
	08/17/11	320	4.3	4.0	5.7	11	3.0	<0.5	<0.5	<0.5	110	<0.5	<0.5
	03/28/14	--	--	--	--	--	--	--	--	--	--	--	--
	05/28/14	8,300	43	8.5	520	490	340	--	--	9.7	420	--	--
MW-8	02/23/10	690	3.5	2.8	29	40	1,600	<100	<100	<100	24,000	<100	<100
	08/12/10	260	4.1	1.4	6.9	7.2	2,100	<170	<170	<170	25,000	<170	<170
	02/17/11	500	3.6	5.1	7.8	2.1	1,300	<100	<100	<100	25,000	<100	<100
	08/17/11	3,000	30	23	96	85	320	<100	<100	<100	19,000	<100	<100
	03/28/14	<4,000[1]	<20[1]	<20[1]	<20[1]	<20[1]	200	--	--	<40[1]	33,000	--	--
MW-9	02/23/10	<50	<0.50	0.70	<0.50	<0.50	260	<10	<10	<10	1,600	<10	<10
	08/12/10	<50	<0.50	1.6	<0.50	<0.50	85	<10	<10	<10	880	<10	<10
	02/17/11	<50	<0.5	<0.5	<0.5	<0.5	160	<5.0	<5.0	<5.0	1,300	<5.0	<5.0
	08/17/11	170	<0.5	7.0	<0.5	<0.5	10	<5.0	<5.0	<5.0	650	<5.0	<5.0
	03/28/14	55	<0.50	<0.50	<0.50	<0.50	74	--	--	<1.0	15	--	--
MW-10	02/23/10	1,300	<0.50	11	3.1	2.6	2.8	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50
	08/12/10	61	<0.50	0.72	<0.50	<0.50	39	<0.50	<0.50	1.8	<2.0	<0.50	<0.50
	02/17/11	150	<0.5	1.6	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	08/17/11	<50	<0.5	<0.5	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
	03/28/14	95	<0.50	<0.50	<0.50	<0.50	24	--	--	<1.0	<10	--	--

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Alaska Gas Service Station
6211 San Pablo Avenue, Oakland, CA**

Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
EX-1	02/19/04	120,000	9,500	4,300	840	3,900	150,000	--	--	--	--	--	--
	02/14/08	84,000	2,300	4,900	1,800	14,000	3,900	ND	ND	ND	ND	ND	ND
	05/15/08	24,000	2,100	750	640	2,100	1,800	<0.50	<0.50	610	10,000	<0.50	<0.50
	09/10/08	9,200	1,000	160	300	1,000	780	<100	<100	380	11,000	<100	<100
	11/18/08	8,900	1,400	290	360	1,300	840	<100	<100	180	22,000	<100	<100
	02/17/09	70,000	2,700	3,600	1,900	13,000	1,400	<25	<25	230	20,000	<25	<25
	05/15/09	18,000	1,400	250	530	1,700	640	<25	<25	480	1,500	<25	<25
	08/13/09	10,000	1,100	150	410	940	520	<25	<25	200	5,500	<25	<25
	02/23/10	39,000	1,300	1,100	1,100	7,700	880	<25	<25	120	5,200	<25	<25
	08/12/10	12,000	1,000	160	470	1,200	660	<17	<17	250	670	<17	<17
02/17/11	33,000	1,700	600	1,100	6,500	720	<12	<12	160	1,000	<12	<12	
<i>Well Destroyed May 17, 2011</i>													
Notes:						Analytical Methods:							
µg/L = Micrograms per liter						GRO by EPA Method SW8015B/SW8260B							
GRO = Gasoline Range Organics (C4-C13)						All other analytes by EPA Method SW8260B.							
MTBE = Methyl Tertiary Butyl Ether						DIPE= Di-Isopropyl Ether							
TAME= Tertiary Amyl Methyl Ether						TBA = Tertiary Butyl Alcohol							
ETBE= Ethyl Tertiary Butyl Ether						1,2-DCA= 1,2-Dichloroethane							
						EDB = Ethylene dibromide							
1 = Reporting limits were increased due to high concentrations of target analytes.													
Information prior to February 2014, taken from the AEI Consultants, <i>Remedial Action Report / Groundwater Monitoring Report - 2nd Semester 2011</i> , dated October 6, 2011.													



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND WEST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 2012



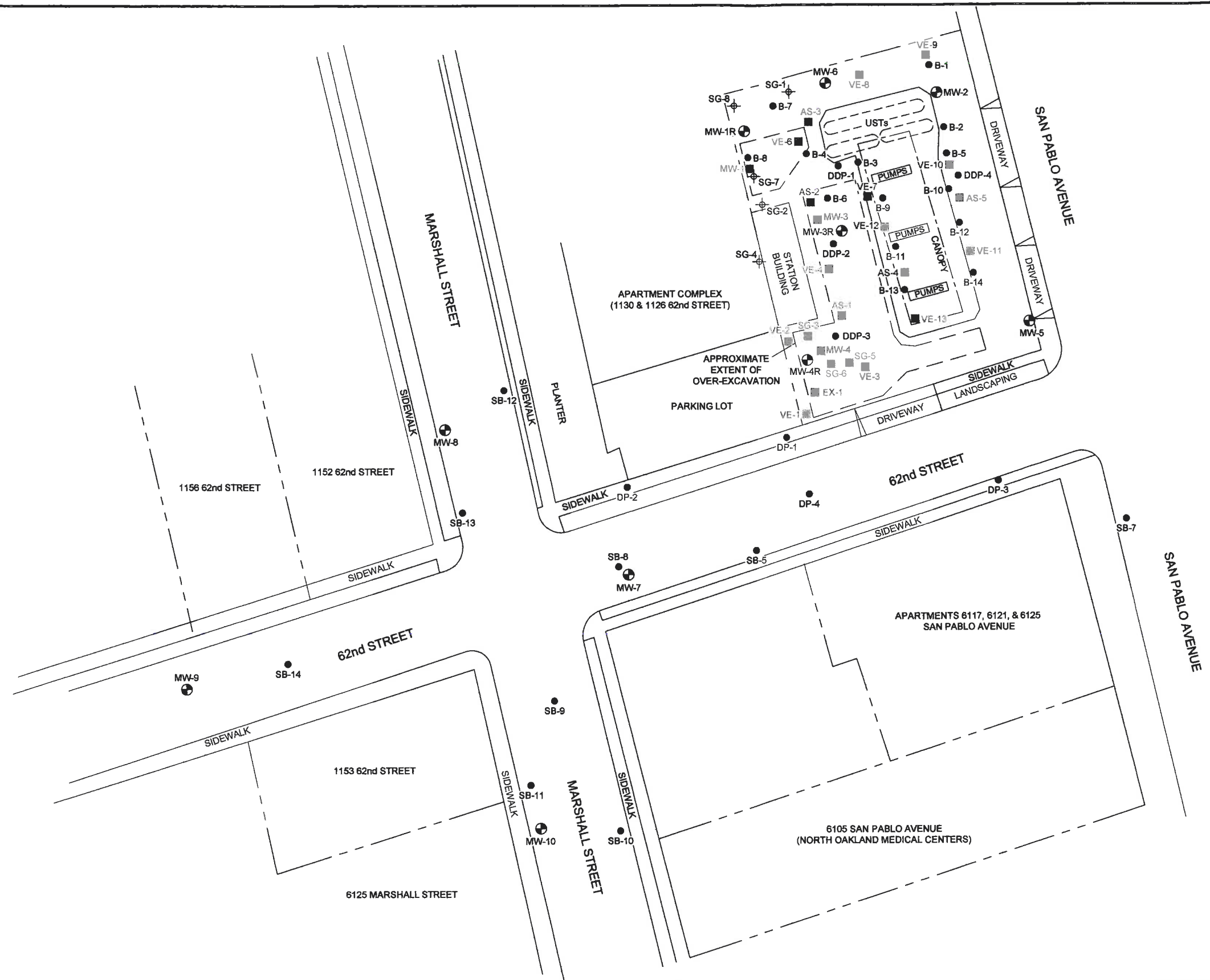
ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
 1
 PROJECT NO.
 2192-6211-01



- LEGEND
- MW-1 MONITORING WELL LOCATION
 - SG-2 NESTED VAPOR PROBE LOCATIONS
 - B-1 SOIL BORING LOCATION
 - MW-1 ABANDONED WELL LOCATION



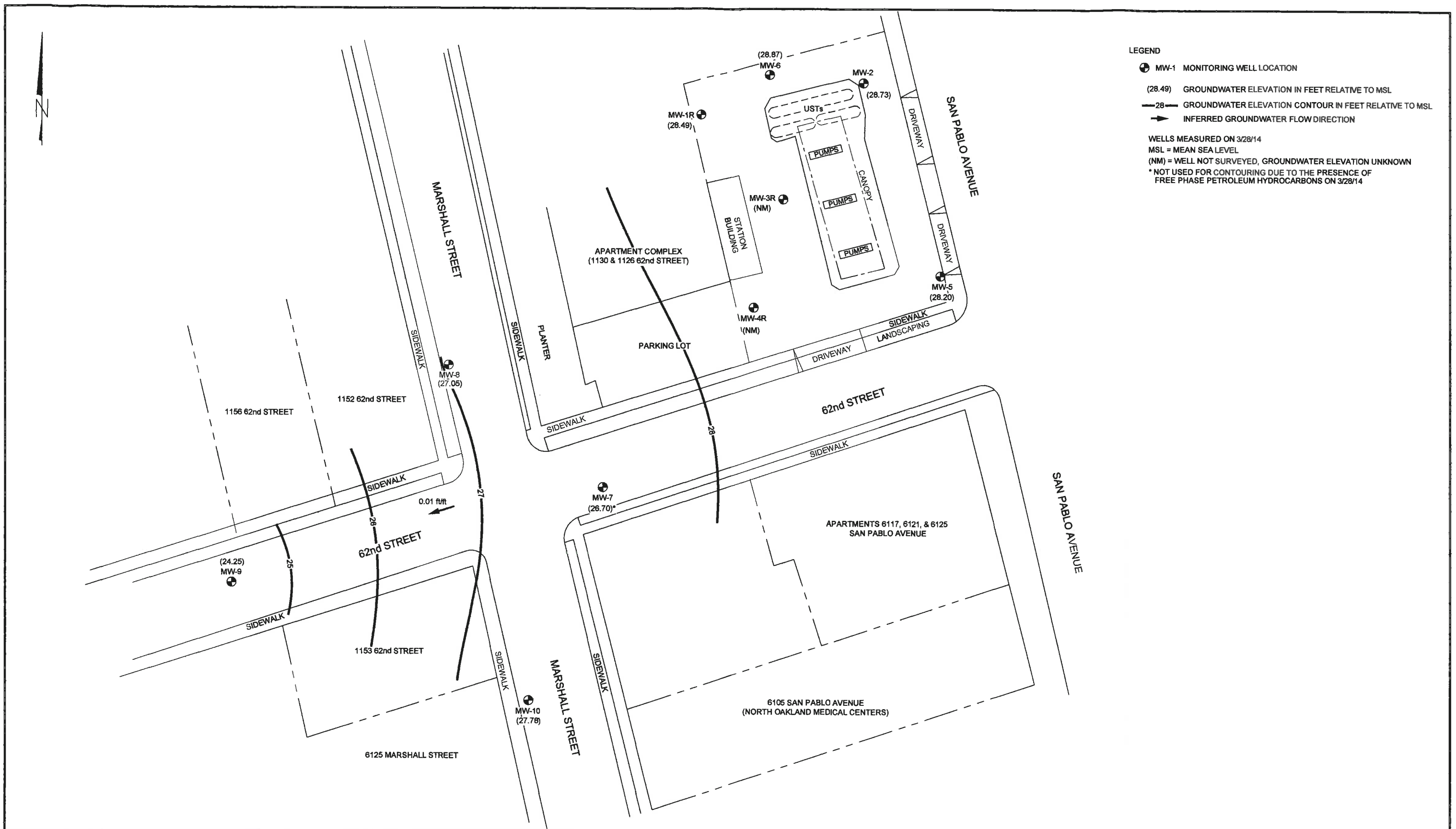
STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Alaska Gas
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: April 29, 2014
 FILENAME: Alaska Site Vicinity Map

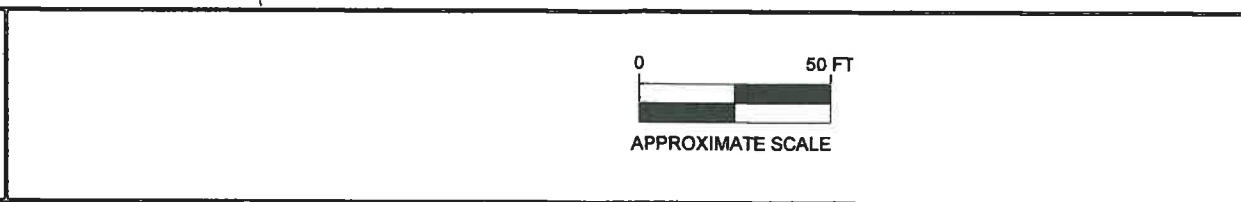


ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA
 SITE VICINITY MAP

FIGURE
2
 PROJECT NO.
 2192-6211-01



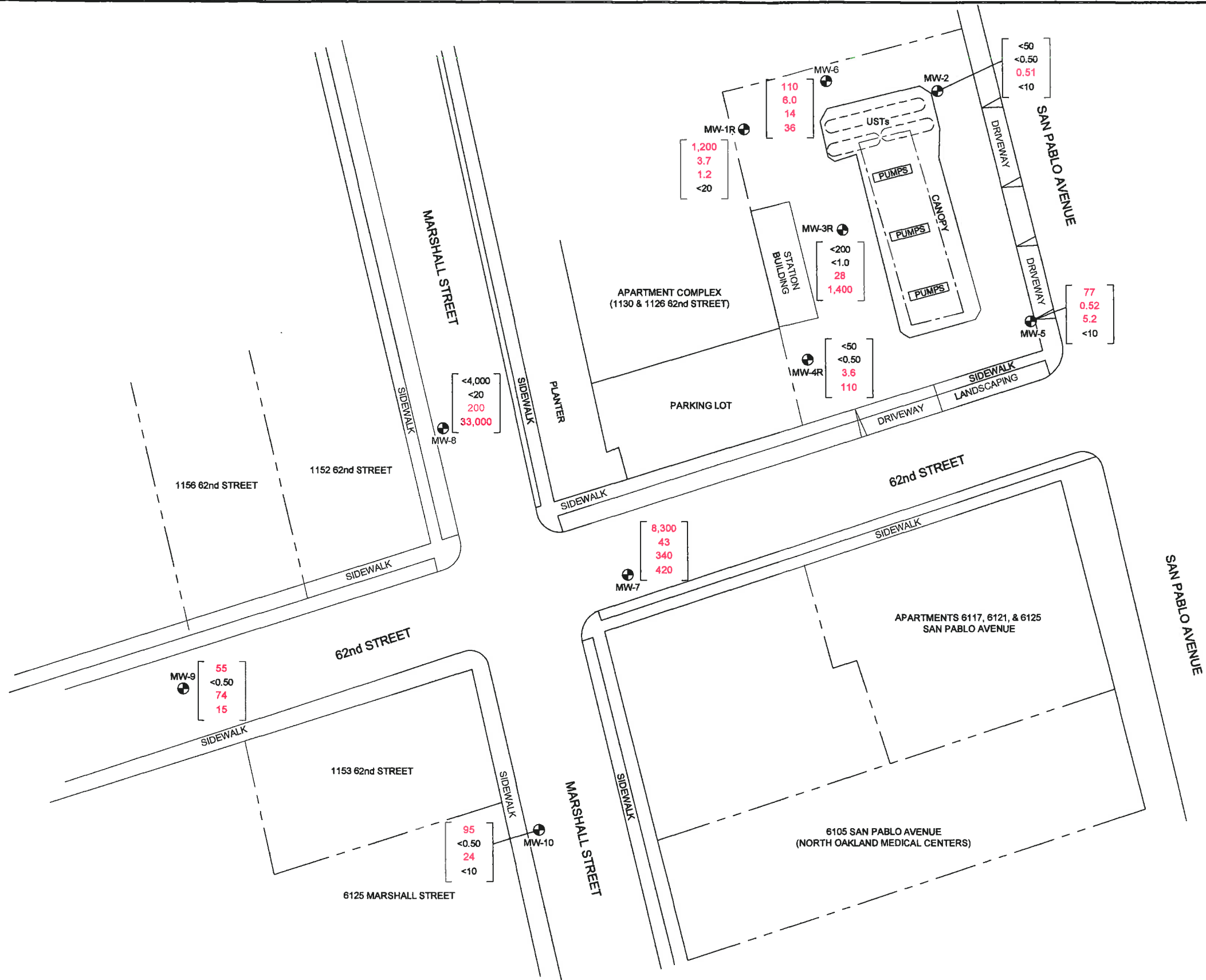
PATH NAME: Alaska Gas\Quarterly Figures
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: June 24, 2014
 FILENAME: Alaska Quarterly Figures



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
 SPRING 2014

FIGURE
3
 PROJECT NO.
 2192-6211-01



LEGEND

- MW-1 MONITORING WELL LOCATION
- <50 GASOLINE RANGE ORGANICS (GRO) IN µg/L
- <0.50 BENZENE CONCENTRATION IN µg/L
- 0.51 METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L
- <10 TERTIARY BUTYL ALCOHOL (TBA) IN µg/L

ALL WELLS SAMPLED ON 3/28/14, EXCEPT MW-7 WHICH WAS SAMPLED ON 5/28/14
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B
 TBA, MTBE, & BENZENE ANALYZED BY EPA METHOD SW8260B

STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Alaska Gas/Quarterly Figures
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: June 10, 2014
 FILENAME: Alaska Quarterly Figures



ALASKA GAS SERVICE STATION
 6211 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
 SPRING 2014

FIGURE
4
 PROJECT NO.
 2192-6211-01

APPENDIX A
FIELD DATA SHEETS



Site Address 6211 San Pablo Ave
 City Oakland
 Sampled By: Jerry Gonzales
 Signature [Signature]

Site Number Alaska Gas
 Project Number 2192-6211-01
 Project PM S. Bittinger
 DATE 3-28-14

Well ID <u>MW-8</u>					Well ID <u>MW-9</u>				
Purge start time <u>1128</u>			Odor <u>Y</u> <u>N</u>		Purge start time <u>1155</u>			Odor <u>Y</u> <u>N</u>	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>1129</u>	<u>17.68</u>	<u>6.60</u>	<u>1185</u>	<u>2</u>	time <u>1156</u>	<u>18.27</u>	<u>6.90</u>	<u>650</u>	<u>1.8</u>
time <u>1130</u>	<u>17.59</u>	<u>6.55</u>	<u>1009</u>	<u>4</u>	time <u>1157</u>	<u>18.53</u>	<u>6.86</u>	<u>638</u>	<u>3.7</u>
time <u>1131</u>	<u>17.99</u>	<u>6.53</u>	<u>985</u>	<u>6</u>	time <u>1158</u>	<u>18.32</u>	<u>6.85</u>	<u>639</u>	<u>5.5</u>
time					time				
purge stop time <u>1132</u>			ORP <u>-25.4</u>		purge stop time <u>1159</u>			ORP <u>-12.9</u>	
Well ID <u>MW-10</u>					Well ID <u>MW-1R</u>				
Purge start time <u>1217</u>			Odor <u>Y</u> <u>N</u>		Purge start time <u>1335</u>			Odor <u>Y</u> <u>N</u>	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>1218</u>	<u>15.88</u>	<u>6.57</u>	<u>685</u>	<u>2.8</u>	time <u>1336</u>	<u>20.40</u>	<u>6.35</u>	<u>615</u>	<u>2.5</u>
time <u>1219</u>	<u>16.53</u>	<u>6.57</u>	<u>684</u>	<u>4.3</u>	time <u>1337</u>	<u>18.27</u>	<u>6.32</u>	<u>599</u>	<u>5.0</u>
time <u>1220</u>	<u>16.05</u>	<u>6.56</u>	<u>694</u>	<u>6.5</u>	time <u>1338</u>	<u>17.89</u>	<u>6.31</u>	<u>590</u>	<u>7.5</u>
time					time				
purge stop time <u>1221</u>			ORP <u>21.9</u>		purge stop time <u>1339</u>			ORP <u>21.8</u>	
Well ID <u>MW-6</u>					Well ID <u>MW-3R</u>				
Purge start time <u>1350</u>			Odor <u>Y</u> <u>N</u>		Purge start time <u>1410</u>			Odor <u>Y</u> <u>N</u>	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>1351</u>	<u>18.04</u>	<u>6.56</u>	<u>565</u>	<u>2.8</u>	time <u>1411</u>	<u>18.68</u>	<u>6.55</u>	<u>753</u>	<u>1.3</u>
time <u>1352</u>	<u>18.05</u>	<u>6.53</u>	<u>509</u>	<u>5.6</u>	time <u>1412</u>	<u>18.07</u>	<u>6.62</u>	<u>586</u>	<u>2.6</u>
time <u>1353</u>	<u>17.77</u>	<u>6.51</u>	<u>506</u>	<u>8.5</u>	time <u>1413</u>	<u>17.67</u>	<u>6.63</u>	<u>591</u>	<u>4.0</u>
time					time				
purge stop time <u>1354</u>			ORP <u>-0.3</u>		purge stop time <u>1414</u>			ORP <u>-0.9</u>	
Well ID <u>MW-2</u>					Well ID <u>MW-4R</u>				
Purge start time <u>1427</u>			Odor <u>Y</u> <u>N</u>		Purge start time <u>1450</u>			Odor <u>Y</u> <u>N</u>	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>1428</u>	<u>18.59</u>	<u>6.56</u>	<u>627</u>	<u>2.2</u>	time <u>1451</u>	<u>18.33</u>	<u>6.65</u>	<u>508</u>	<u>1.6</u>
time <u>1429</u>	<u>17.97</u>	<u>6.49</u>	<u>601</u>	<u>4.4</u>	time <u>1452</u>	<u>18.11</u>	<u>6.74</u>	<u>664</u>	<u>3.3</u>
time <u>1430</u>	<u>18.12</u>	<u>6.46</u>	<u>603</u>	<u>6.6</u>	time <u>1453</u>	<u>17.90</u>	<u>6.77</u>	<u>654</u>	<u>5.0</u>
time					time				
purge stop time <u>1431</u>			ORP <u>26.8</u>		purge stop time			ORP <u>-24.6</u>	



Site Address 6211 San Pablo Ave
 City Oakland
 Sampled By: Jerry Gonzalez
 Signature [Signature]

Site Number Alaska Gas
 Project Number 2192-6211-01
 Project PM S. Bittinger
 DATE _____

Well ID <u>MW.5</u>					Well ID				
Purge start time <u>15:10</u>			Odor <u>(Y)</u> N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>1511</u>	<u>18.9</u>	<u>6.56</u>	<u>754</u>	<u>3</u>	time				
time <u>1512</u>	<u>18.9</u>	<u>6.63</u>	<u>793</u>	<u>6</u>	time				
time <u>1513</u>	<u>18.8</u>	<u>6.62</u>	<u>729</u>	<u>9</u>	time				
time					time				
purge stop time <u>15:14</u>			ORP <u>10.0</u>		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	



Site Address 6211 Sea Plover Ave
 City Oakland
 Sampled By: Carl Schuze
 Signature [Signature]

Site Number Alaska
 Project Number 2192-6211-01
 Project PM Scott Bittinge
 DATE 05/28/14

Well ID <u>MU-7</u> <u>NP</u>					Well ID <u>MU-7</u> <u>purge</u>				
Purge start time			Odor Y N		Purge start time			Odor <input checked="" type="radio"/> N	
Temp C	pH	cond	gallons		Temp C	pH	cond	gallons	
time <u>0608</u>					time <u>0612</u>	<u>20.3</u>	<u>7.39</u>	<u>935</u>	<u>0</u>
time					time <u>0616</u>	<u>19.8</u>	<u>7.40</u>	<u>428</u>	<u>2</u>
time					time <u>0620</u>	<u>19.7</u>	<u>7.47</u>	<u>418</u>	<u>4</u>
time					time <u>0630</u>	<u>18.4</u>	<u>7.55</u>	<u>186.1</u>	<u>5.5</u>
purge stop time			ORP		purge stop time <u>00:1.60</u>			ORP <u>-162</u>	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
Temp C	pH	cond	gallons		Temp C	pH	cond	gallons	
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
Temp C	pH	cond	gallons		Temp C	pH	cond	gallons	
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
Temp C	pH	cond	gallons		Temp C	pH	cond	gallons	
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		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 : 04/02/14

Job: 2192-6211-01/Alaska Gas

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

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	MW-1R					
Lab ID :	STR14040241-01A	TPH-P (GRO)	1,200	200 µg/L	04/03/14	04/03/14
Date Sampled	03/28/14 13:45	Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	04/03/14	04/03/14
		Methyl tert-butyl ether (MTBE)	1.2	1.0 µg/L	04/03/14	04/03/14
		Benzene	3.7	1.0 µg/L	04/03/14	04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	04/03/14	04/03/14
		Toluene	11	1.0 µg/L	04/03/14	04/03/14
		Ethylbenzene	34	1.0 µg/L	04/03/14	04/03/14
		m,p-Xylene	220	1.0 µg/L	04/03/14	04/03/14
		o-Xylene	79	1.0 µg/L	04/03/14	04/03/14
Client ID :	MW-2					
Lab ID :	STR14040241-02A	TPH-P (GRO)	ND	50 µg/L	04/03/14	04/03/14
Date Sampled	03/28/14 14:35	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	04/03/14	04/03/14
		Methyl tert-butyl ether (MTBE)	0.51	0.50 µg/L	04/03/14	04/03/14
		Benzene	ND	0.50 µg/L	04/03/14	04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/03/14	04/03/14
		Toluene	ND	0.50 µg/L	04/03/14	04/03/14
		Ethylbenzene	ND	0.50 µg/L	04/03/14	04/03/14
		m,p-Xylene	ND	0.50 µg/L	04/03/14	04/03/14
		o-Xylene	ND	0.50 µg/L	04/03/14	04/03/14
Client ID :	MW-3R					
Lab ID :	STR14040241-03A	TPH-P (GRO)	ND	200 µg/L	04/03/14	04/03/14
Date Sampled	03/28/14 14:20	Tertiary Butyl Alcohol (TBA)	1,400	20 µg/L	04/03/14	04/03/14
		Methyl tert-butyl ether (MTBE)	28	1.0 µg/L	04/03/14	04/03/14
		Benzene	ND	1.0 µg/L	04/03/14	04/03/14
		Tertiary Amyl Methyl Ether (TAME)	5.3	2.0 µg/L	04/03/14	04/03/14
		Toluene	ND	1.0 µg/L	04/03/14	04/03/14
		Ethylbenzene	ND	1.0 µg/L	04/03/14	04/03/14
		m,p-Xylene	ND	1.0 µg/L	04/03/14	04/03/14
		o-Xylene	ND	1.0 µg/L	04/03/14	04/03/14
Client ID :	MW-4R					
Lab ID :	STR14040241-04A	TPH-P (GRO)	ND	50 µg/L	04/03/14	04/03/14
Date Sampled	03/28/14 15:00	Tertiary Butyl Alcohol (TBA)	110	10 µg/L	04/03/14	04/03/14
		Methyl tert-butyl ether (MTBE)	3.6	0.50 µg/L	04/03/14	04/03/14
		Benzene	ND	0.50 µg/L	04/03/14	04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/03/14	04/03/14
		Toluene	ND	0.50 µg/L	04/03/14	04/03/14
		Ethylbenzene	ND	0.50 µg/L	04/03/14	04/03/14
		m,p-Xylene	ND	0.50 µg/L	04/03/14	04/03/14
		o-Xylene	ND	0.50 µg/L	04/03/14	04/03/14



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Client ID : MW-5						
Lab ID :	STR14040241-05A	TPH-P (GRO)	77		50 µg/L	04/03/14 04/03/14
Date Sampled	03/28/14 15:20	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	04/03/14 04/03/14
		Methyl tert-butyl ether (MTBE)	5.2		0.50 µg/L	04/03/14 04/03/14
		Benzene	0.52		0.50 µg/L	04/03/14 04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/03/14 04/03/14
		Toluene	ND		0.50 µg/L	04/03/14 04/03/14
		Ethylbenzene	ND		0.50 µg/L	04/03/14 04/03/14
		m,p-Xylene	ND		0.50 µg/L	04/03/14 04/03/14
		o-Xylene	ND		0.50 µg/L	04/03/14 04/03/14
Client ID : MW-6						
Lab ID :	STR14040241-06A	TPH-P (GRO)	110		50 µg/L	04/03/14 04/03/14
Date Sampled	03/28/14 14:00	Tertiary Butyl Alcohol (TBA)	36		10 µg/L	04/03/14 04/03/14
		Methyl tert-butyl ether (MTBE)	14		0.50 µg/L	04/03/14 04/03/14
		Benzene	6.0		0.50 µg/L	04/03/14 04/03/14
		Tertiary Amyl Methyl Ether (TAME)	2.0		1.0 µg/L	04/03/14 04/03/14
		Toluene	ND		0.50 µg/L	04/03/14 04/03/14
		Ethylbenzene	2.2		0.50 µg/L	04/03/14 04/03/14
		m,p-Xylene	1.1		0.50 µg/L	04/03/14 04/03/14
		o-Xylene	ND		0.50 µg/L	04/03/14 04/03/14
Client ID : MW-8						
Lab ID :	STR14040241-07A	TPH-P (GRO)	ND	V	4,000 µg/L	04/03/14 04/03/14
Date Sampled	03/28/14 11:40	Tertiary Butyl Alcohol (TBA)	33,000		400 µg/L	04/03/14 04/03/14
		Methyl tert-butyl ether (MTBE)	200		20 µg/L	04/03/14 04/03/14
		Benzene	ND	V	20 µg/L	04/03/14 04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND	V	40 µg/L	04/03/14 04/03/14
		Toluene	ND	V	20 µg/L	04/03/14 04/03/14
		Ethylbenzene	ND	V	20 µg/L	04/03/14 04/03/14
		m,p-Xylene	ND	V	20 µg/L	04/03/14 04/03/14
		o-Xylene	ND	V	20 µg/L	04/03/14 04/03/14
Client ID : MW-9						
Lab ID :	STR14040241-08A	TPH-P (GRO)	55		50 µg/L	04/03/14 04/03/14
Date Sampled	03/28/14 12:10	Tertiary Butyl Alcohol (TBA)	15		10 µg/L	04/03/14 04/03/14
		Methyl tert-butyl ether (MTBE)	74		0.50 µg/L	04/03/14 04/03/14
		Benzene	ND		0.50 µg/L	04/03/14 04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/03/14 04/03/14
		Toluene	ND		0.50 µg/L	04/03/14 04/03/14
		Ethylbenzene	ND		0.50 µg/L	04/03/14 04/03/14
		m,p-Xylene	ND		0.50 µg/L	04/03/14 04/03/14
		o-Xylene	ND		0.50 µg/L	04/03/14 04/03/14
Client ID : MW-10						
Lab ID :	STR14040241-09A	TPH-P (GRO)	95		50 µg/L	04/03/14 04/03/14
Date Sampled	03/28/14 12:30	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	04/03/14 04/03/14
		Methyl tert-butyl ether (MTBE)	24		0.50 µg/L	04/03/14 04/03/14
		Benzene	ND		0.50 µg/L	04/03/14 04/03/14
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/03/14 04/03/14
		Toluene	ND		0.50 µg/L	04/03/14 04/03/14
		Ethylbenzene	ND		0.50 µg/L	04/03/14 04/03/14
		m,p-Xylene	ND		0.50 µg/L	04/03/14 04/03/14
		o-Xylene	ND		0.50 µg/L	04/03/14 04/03/14



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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
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



WJ

4/9/14

Report Date

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.



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VOC Sample Preservation Report

Work Order: STR14040241

Job: 2192-6211-01/Alaska Gas

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14040241-01A	MW-1R	Aqueous	2
14040241-02A	MW-2	Aqueous	2
14040241-03A	MW-3R	Aqueous	2
14040241-04A	MW-4R	Aqueous	2
14040241-05A	MW-5	Aqueous	2
14040241-06A	MW-6	Aqueous	2
14040241-07A	MW-8	Aqueous	2
14040241-08A	MW-9	Aqueous	2
14040241-09A	MW-10	Aqueous	2

4/9/14
Report Date



Alpha Analytical, Inc.

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Date:
08-Apr-14

QC Summary Report

Work Order:
14040241

Method Blank

File ID: 14040304.D

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

Batch ID: MS15W0403B

Analysis Date: 04/03/2014 11:51

Sample ID: MBLK MS15W0403B

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 11:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	12.3		10		123	70	130			
Surr: Toluene-d8	9.93		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.02		10		90	70	130			

Laboratory Control Spike

File ID: 14040303.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0403B

Analysis Date: 04/03/2014 11:30

Sample ID: GLCS MS15W0403B

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 11:30

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	398	50	400		0	70	130			
Surr: 1,2-Dichloroethane-d4	12		10		120	70	130			
Surr: Toluene-d8	9.71		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.36		10		94	70	130			

Sample Matrix Spike

File ID: 14040327.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0403B

Analysis Date: 04/03/2014 20:09

Sample ID: 14010241-06AGS

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 20:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2200	250	2000	106.9	105	54	143			
Surr: 1,2-Dichloroethane-d4	63.6		50		127	70	130			
Surr: Toluene-d8	47.4		50		95	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			

Sample Matrix Spike Duplicate

File ID: 14040328.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0403B

Analysis Date: 04/03/2014 20:31

Sample ID: 14010241-06AGSD

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 20:31

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2290	250	2000	106.9	109	54	143	2199	4.1(23)	
Surr: 1,2-Dichloroethane-d4	64.3		50		129	70	130			
Surr: Toluene-d8	47.3		50		95	70	130			
Surr: 4-Bromofluorobenzene	47.5		50		95	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.



Alpha Analytical, Inc.

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Date:
08-Apr-14

QC Summary Report

Work Order:
14040241

Method Blank

File ID: 14040304.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS15W0403A

Analysis Date: 04/03/2014 11:51

Sample ID: MBLK MS15W0403A

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 11:51

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								
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	12.3		10		123	70	130			
Surr: Toluene-d8	9.93		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.02		10		90	70	130			

Laboratory Control Spike

File ID: 14040302.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS15W0403A

Analysis Date: 04/03/2014 11:00

Sample ID: LCS MS15W0403A

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 11:00

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.69	0.5	10		97	63	137			
Benzene	10.1	0.5	10		101	70	130			
Toluene	9.53	0.5	10		95	80	120			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	10.6	0.5	10		106	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	12.2		10		122	70	130			
Surr: Toluene-d8	9.92		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.51		10		95	70	130			

Sample Matrix Spike

File ID: 14040325.D

Type MS Test Code: EPA Method SW8260B

Batch ID: MS15W0403A

Analysis Date: 04/03/2014 19:26

Sample ID: 14040104-02AMS

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 19:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	57.4	1.3	50	0	115	56	140			
Benzene	51.9	1.3	50	0	104	67	134			
Toluene	47.5	1.3	50	0	95	38	130			
Ethylbenzene	49.1	1.3	50	0	98	70	130			
m,p-Xylene	52.3	1.3	50	0	105	65	139			
o-Xylene	50.8	1.3	50	0	102	69	130			
Surr: 1,2-Dichloroethane-d4	63.7		50		127	70	130			
Surr: Toluene-d8	47.1		50		94	70	130			
Surr: 4-Bromofluorobenzene	48.2		50		96	70	130			

Sample Matrix Spike Duplicate

File ID: 14040326.D

Type MSD Test Code: EPA Method SW8260B

Batch ID: MS15W0403A

Analysis Date: 04/03/2014 19:48

Sample ID: 14040104-02AMSD

Units: µg/L

Run ID: MSD_15_140403B

Prep Date: 04/03/2014 19:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	60.9	1.3	50	0	122	56	140	57.35	6.0(40)	
Benzene	54.7	1.3	50	0	109	67	134	51.87	5.3(21)	
Toluene	49.4	1.3	50	0	99	38	130	47.54	3.9(20)	
Ethylbenzene	52.1	1.3	50	0	104	70	130	49.09	6.0(20)	
m,p-Xylene	55.6	1.3	50	0	111	65	139	52.27	6.2(20)	
o-Xylene	54.7	1.3	50	0	109	69	130	50.83	7.4(20)	
Surr: 1,2-Dichloroethane-d4	64.6		50		129	70	130			
Surr: Toluene-d8	46.5		50		93	70	130			
Surr: 4-Bromofluorobenzene	49		50		98	70	130			



Alpha Analytical, Inc.

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Date:
08-Apr-14

QC Summary Report

Work Order:
14040241

Comments:

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

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR14040241
Report Due By : 5:00 PM On : 09-Apr-14

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

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

EDD Required : Yes

Sampled by : Client


PO :
 Client's COC # : none Job : 2192-6211-01/Alaska Gas

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
0 °C	02-Apr-14	02-Apr-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests								Sample Remarks		
				TPHP_W	VOC_W									
STR14040241-01A	MW-1R	AQ 03/28/14 13:45	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									
STR14040241-02A	MW-2	AQ 03/28/14 14:35	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									
STR14040241-03A	MW-3R	AQ 03/28/14 14:20	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									
STR14040241-04A	MW-4R	AQ 03/28/14 15:00	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									
STR14040241-05A	MW-5	AQ 03/28/14 15:20	2 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									1-HCl VOA received broken.
STR14040241-06A	MW-6	AQ 03/28/14 14:00	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									
STR14040241-07A	MW-8	AQ 03/28/14 11:40	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									
STR14040241-08A	MW-9	AQ 03/28/14 12:10	3 0 5	GAS-C	BTXE/MTB E/TBA/TAM E_C									

Comments: Security seals intact. Frozen ice.

Signature	Print Name	Company	Date/Time
	Sarah Nari	Alpha Analytical, Inc.	4/2/14 1020

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

CA

WorkOrder : STR14040241
Report Due By : 5:00 PM On : 09-Apr-14

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

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

EDD Required : Yes

Sampled by : Client


PO :
 Client's COC # : none Job : 2192-6211-01/Alaska Gas

Cooler Temp	Samples Received	Date Printed
0 °C	02-Apr-14	02-Apr-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				TPHP_W	VOC_W							
STR14040241-09A	MW-10	AQ 03/28/14 12:30	3 0 5	GAS-C	BTX&MTB E/T&A/TAM E.C							

Comments: Security seals intact. Frozen ice. :

Logged in by: _____	Signature	Print Name	Company	Date/Time
		Sarah Neri	Alpha Analytical, Inc.	4/2/14 1020

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: Stratus Environmental, Inc.
 Attn: _____
 Address: _____
 City, State, Zip: _____
 Phone Number: _____ Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
 Northern CA: 8891 Horn Road, Suite C, Rancho Cordova, CA 95627
 Southern NV: 6295 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolie Hwy., #310 Elko, NV 89801

Phone: 775-365-1044
 Fax: 775-355-0406
 Phone: 916-368-8089
 Phone: 702-281-4848
 Phone: 714-388-2901
 Phone: 775-388-7043

Consultant/ Client Info:		Job and Purchase Order Info:		Report Attention/Project Manager:		QC Deliverable Info:	
Company:	<u>Stratus Environmental, Inc.</u>	Job #:	<u>2182-8211-01</u>	Name:	<u>Scott Blittinger</u>	EDD Required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Address:	<u>3330 Cameron Park Drive, Suite 550</u>	Job Name:	<u>Alaska Gas</u>	Email Address:	<u>rschem@stratusinc.net</u>	EDF Required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
City, State, Zip:	<u>Cameron Park, CA 95682</u>	P.O. #:	_____	Phone #:	<u>530-676-6004</u>	Global ID:	<u>T0600101804</u>
				Cell #:	<u>916-601-9758</u>	Data Validation Packages:	III or IV

Samples Collected from which State? (circle one) AR <input type="checkbox"/> CA <input checked="" type="checkbox"/> KS <input type="checkbox"/> NV <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> DOD <input type="checkbox"/> Bts <input type="checkbox"/> Other <input type="checkbox"/>							Analysis Requested										Remarks				
Time Sampled (M/M/DD)	Time Collected (M/M/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	GRO, BTEX, MTBE, TAME, TBA													
3/28/14	1345	AQ		MW-1R	STAT	N	3 V	X													
	1937			MW-2																	
	1420			MW-3R																	
	1500			MW-4R																	
	1520			MW-5																	
	1400			MW-6																	
	1140			MW-7																	
	1210			MW-8																	
	1230			MW-9																	
				MW-10																	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: _____	Date: <u>4-1-14</u>	Time: <u>1130</u>	Received by: (Signature/Affiliation): <u>Muysaot Alpha</u>	Date: <u>4-1-14</u>	Time: <u>1130</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: <u>4/2/14</u>	Time: <u>1014</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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

NOTE: Samples are discarded 90 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



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 : 05/29/14

Job: 2192-6211-01

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7				
Lab ID: STR14052906-01A				
Date Sampled 05/28/14 06:30				
TPH-P (GRO)	8,300	500 µg/L	05/30/14	05/30/14
Tertiary Butyl Alcohol (TBA)	420	50 µg/L	05/30/14	05/30/14
Methyl tert-butyl ether (MTBE)	340	2.5 µg/L	05/30/14	05/30/14
Benzene	43	2.5 µg/L	05/30/14	05/30/14
Tertiary Amyl Methyl Ether (TAME)	9.7	5.0 µg/L	05/30/14	05/30/14
Toluene	8.5	2.5 µg/L	05/30/14	05/30/14
Ethylbenzene	520	2.5 µg/L	05/30/14	05/30/14
m,p-Xylene	450	2.5 µg/L	05/30/14	05/30/14
o-Xylene	40	2.5 µg/L	05/30/14	05/30/14

Gasoline Range Organics (GRO) C4-C13

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

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

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

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



PS
6/5/14

Report Date



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR14052906

Job: 2192-6211-01

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14052906-01A	MW-7	Aqueous	2

6/5/14

Report Date



Alpha Analytical, Inc.

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

Date:
03-Jun-14

QC Summary Report

Work Order:
14052906

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14053006.D		MBLK	Batch ID: MS08W0530B				Analysis Date: 05/30/2014 12:44			
Sample ID:	MBLK MS08W0530B	Units : µg/L	Run ID: MSD_08_140530B				Prep Date: 05/30/2014 12:44			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.45		10		85	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14053005.D		LCS	Batch ID: MS08W0530B				Analysis Date: 05/30/2014 12:18			
Sample ID:	GLCS MS08W0530B	Units : µg/L	Run ID: MSD_08_140530B				Prep Date: 05/30/2014 12:18			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	384	50	400		96	70	130			
Surr: 1,2-Dichloroethane-d4	7.94		10		79	70	130			
Surr: Toluene-d8	9.68		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.8		10		108	70	130			

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14053014.D		MS	Batch ID: MS08W0530B				Analysis Date: 05/30/2014 15:52			
Sample ID:	14052901-02AGS	Units : µg/L	Run ID: MSD_08_140530B				Prep Date: 05/30/2014 15:52			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1750	250	2000		0	87	54	143		
Surr: 1,2-Dichloroethane-d4	42.4		50		85	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	53.4		50		107	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14053015.D		MSD	Batch ID: MS08W0530B				Analysis Date: 05/30/2014 16:16			
Sample ID:	14052901-02AGSD	Units : µg/L	Run ID: MSD_08_140530B				Prep Date: 05/30/2014 16:16			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1910	250	2000		0	95	54	143	1745	9.0(23)
Surr: 1,2-Dichloroethane-d4	40.1		50		80	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	54.5		50		109	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.



Alpha Analytical, Inc.

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

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

Date:
03-Jun-14

QC Summary Report

Work Order:
14052906

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 14053008.D

Batch ID: MS08W0530A

Analysis Date: 05/30/2014 12:44

Sample ID: MBLK MS08W0530A

Units: µg/L

Run ID: MSD_08_140530B

Prep Date: 05/30/2014 12:44

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								
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	8.45		10		85	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 14053004.D

Batch ID: MS08W0530A

Analysis Date: 05/30/2014 11:42

Sample ID: LCS MS08W0530A

Units: µg/L

Run ID: MSD_08_140530B

Prep Date: 05/30/2014 11:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.68	0.5	10		87	63	137			
Benzene	10.3	0.5	10		103	70	130			
Toluene	11.7	0.5	10		117	80	120			
Ethylbenzene	10.5	0.5	10		105	80	120			
m,p-Xylene	11	0.5	10		110	65	139			
o-Xylene	10.8	0.5	10		108	70	130			
Surr: 1,2-Dichloroethane-d4	8.26		10		83	70	130			
Surr: Toluene-d8	9.47		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.76		10		98	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 14053012.D

Batch ID: MS08W0530A

Analysis Date: 05/30/2014 15:05

Sample ID: 14052901-02AMS

Units: µg/L

Run ID: MSD_08_140530B

Prep Date: 05/30/2014 15:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	40.6	1.3	50	0	81	56	140			
Benzene	43.7	1.3	50	0	87	67	134			
Toluene	49.2	1.3	50	0	98	38	130			
Ethylbenzene	44.7	1.3	50	0	89	70	130			
m,p-Xylene	46.5	1.3	50	0	93	65	139			
o-Xylene	45.7	1.3	50	0	91	69	130			
Surr: 1,2-Dichloroethane-d4	42.1		50		84	70	130			
Surr: Toluene-d8	46.6		50		93	70	130			
Surr: 4-Bromofluorobenzene	47.8		50		96	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 14053013.D

Batch ID: MS08W0530A

Analysis Date: 05/30/2014 15:29

Sample ID: 14052901-02AMSD

Units: µg/L

Run ID: MSD_08_140530B

Prep Date: 05/30/2014 15:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	46.3	1.3	50	0	93	56	140	40.58	13.2(40)	
Benzene	47.8	1.3	50	0	96	67	134	43.71	9.0(21)	
Toluene	53.6	1.3	50	0	107	38	130	49.22	8.5(20)	
Ethylbenzene	48.6	1.3	50	0	97	70	130	44.67	8.5(20)	
m,p-Xylene	50.1	1.3	50	0	100	65	139	46.48	7.4(20)	
o-Xylene	50	1.3	50	0	100	69	130	45.65	9.2(20)	
Surr: 1,2-Dichloroethane-d4	44.4		50		89	70	130			
Surr: Toluene-d8	46.6		50		93	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			



Alpha Analytical, Inc.

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

Date:
03-Jun-14

QC Summary Report

Work Order:
14052906

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.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder : STR14052906
Report Due By : 5:00 PM On : 05-Jun-14

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

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 : Carl Schulze

PO :
Client's COC # : 16775 Job : 2192-6211-01

Cooler Temp	Samples Received	Date Printed
1 °C	29-May-14	29-May-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				TPHP_W	VOC_W							
STR14052906-01A	MW-7	AQ 05/28/14 08:30	4 0 5	GAS-C	BTX/MTB E/TAMB/TB A.C							

Comments: Security seals intact. Frozen ice. :

Signature	Print Name	Company	Date/Time
<i>Morgan Lowery</i>	Morgan Lowery	Alpha Analytical, Inc.	5-29-14 1526

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

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>Submission Type:</u>	GEO_WELL
<u>Report Title:</u>	1Q14 Geowell
<u>Facility Global ID:</u>	T0600101804
<u>Facility Name:</u>	ALASKA GASOLINE
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submission Date/Time:</u>	4/28/2014 8:45:38 AM
<u>Confirmation Number:</u>	1834418594

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STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
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<u>Submittal Type:</u>	GEO_WELL
<u>Report Title:</u>	1Q14 Geowell MW-7
<u>Facility Global ID:</u>	T0600101804
<u>Facility Name:</u>	ALASKA GASOLINE
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	6/10/2014 10:31:41 AM
<u>Confirmation Number:</u>	2595633804

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STATE WATER RESOURCES CONTROL BOARD
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UPLOADING A EDF FILE

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	1Q4 Analytical
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600101804
<u>Facility Name:</u>	ALASKA GASOLINE
<u>File Name:</u>	14040241_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	4/28/2014 8:41:08 AM
<u>Confirmation Number:</u>	5378542065

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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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
<u>Report Title:</u>	Analytical MW-7
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600101804
<u>Facility Name:</u>	ALASKA GASOLINE
<u>File Name:</u>	14052906_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	6/19/2014 1:55:15 PM
<u>Confirmation Number:</u>	5971117138

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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