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

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

Dear Ms. Detterman:

Stratus Environmental, Inc. (Stratus) has prepared a report entitled *Groundwater Monitoring Report Third Quarter 2015* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000127, Alaska Gas Service Station, 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

STRATUS
ENVIRONMENTAL, INC.

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

Prepared on October 30, 2015
Issued on June 15, 2016
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, Third Quarter 2015
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, Third Quarter 2015

cc: Mr. Pritpaul Sappal, Alaska Gas Service Station

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 (Second and Third Quarter 2015):

1. Stratus conducted a groundwater monitoring and sampling event on July 9, 2015. At this time 10 wells were gauged for depth to groundwater levels. Purge groundwater samples were collected from these wells and submitted to a state-certified analytical laboratory for chemical analysis.

WORK PROPOSED FOR NEXT PERIOD (Fourth Quarter 2015 and First Quarter 2016):

1. On February 18, 2015, Stratus prepared and submitted a report titled *Additional Information to Support Environmental Case Closure Review*. After reviewing the content of this document, ACEHD requested that an addendum to this report be prepared.

2. The first quarter 2016 groundwater monitoring and sampling event will be completed; tentatively this work is scheduled to be performed in January 2016.

Current Phase of Project:	Verification Monitoring (VM), Potential Environmental Case Closure
Frequency of Groundwater Monitoring:	All monitoring wells = Semi-annually (1st & 3rd quarters)
Frequency of Groundwater Sampling:	All monitoring wells = Semi-annually (1st & 3rd quarters)
Groundwater Sampling Date:	July 9, 2015
Are Free Phase Petroleum Hydrocarbons Present:	Yes, free product was not measureable at well MW-7, but heavy petroleum sheen was observed during purging
Depth to Groundwater:	4.41 to 9.63 feet below the top of the well casing
Groundwater Flow Direction :	West-southwest
Groundwater Gradient :	0.008 to 0.02 ft/ft

Stratus conducted third quarter 2015 groundwater monitoring and sampling activities on July 9, 2015. 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 (free product). After well gauging, purge groundwater samples were collected from the site's monitoring wells (including well MW-7, with observable but not measureable product). Table 1 presents a summary of information pertaining to construction of the site's monitoring well network.

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 4.41 to 9.63 feet below the top of the well casing on July 9, 2015. Groundwater levels were near historical low levels (since gauging was initiated in 1999). 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 July 9, 2015, west-southwest groundwater flow, at gradients ranging from approximately 0.008 to 0.02 ft/ft, were observed.

Figure 4 presents a summary of GRO, benzene, MTBE, and TBA concentrations in shallow groundwater using the July 2015 well sampling results. GRO was detected in one onsite wells sample (MW-1R, at 360 micrograms per liter [µg/L]) and two offsite well samples (MW-7 and MW-9, at 10,000 µg/L and 68 µg/L, respectively). Benzene was detected in two onsite well samples, at a maximum level of 1.4 µg/L, and also at offsite well MW-7 (47 µg/L). MTBE was detected in 8 of the 10 well samples; offsite concentrations ranged from 17 µg/L to 130 µg/L and onsite MTBE concentrations ranged from 1.5 µg/L to 3.9 µg/L. TBA was detected in three of the ten well samples, at a maximum concentration of 10,000 µg/L (well MW-8).

LIMITATIONS:

This document was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This document is solely for the use and information of our client unless otherwise noted.

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, Third Quarter 2015
- Figure 4 Groundwater Analytical Summary, Third Quarter 2015
- 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 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)	Product Thickness (feet)	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
			Well Destroyed May 17, 2011		
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
	08/14/14		9.70		26.97
	01/28/15		8.86		27.81
	07/09/15		9.63		27.04

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)	Product Thickness (feet)	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
	08/14/14		8.72		27.61
	01/28/15		7.97		28.36
	07/09/15		8.75		27.58

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)	Product Thickness (feet)	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
			Well Destroyed May 17, 2011		
MW-3R	07/14/11	--	7.01		--
	08/17/11		7.48		--
	3828/14		7.68		--
	08/14/14		8.98		--
	01/28/15		8.15		--
	07/09/15		8.89		--

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)	Product Thickness (feet)	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	0.33	26.91
	02/19/04		3.56	0.25	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
			Well Destroyed May 17, 2011		
MW-4R	07/14/11	--	5.31		--
	08/17/11		5.78		--
	03/28/14		5.90		--
	08/14/14		7.28		--
	01/28/15		6.46		--
	07/09/15		7.20		--

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)	Product Thickness (feet)	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		28.88
	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
	08/14/14		8.32		26.85
	01/28/15		7.62		27.55
	07/09/15		8.19		26.98

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)	Product Thickness (feet)	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
	08/14/14		8.67		27.40
	01/28/15		7.88		28.19
	07/09/15		8.65		27.42

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)	Product Thickness (feet)	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	0.03	26.70
	05/28/14		5.07	0.01	26.10
	08/14/14		5.54		25.62
	01/28/15		4.95		26.21
	07/09/15		5.40		25.76
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
	08/14/14		5.41		25.51
	01/28/15		4.70		26.22
	07/09/15		5.31		25.61
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
	08/14/14		6.67		22.23
	01/28/15		5.96		22.94
	07/09/15		6.62		22.28
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
	08/14/14		4.65		25.63
	01/28/15		3.87		26.41
	07/09/15		4.41		25.87

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)	Product Thickness (feet)	Groundwater Elevation* (feet-MSL)
EX-1	02/19/04	33.28	3.96		29.32
	05/24/04		5.56	0.76	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
			Well Destroyed May 17, 2011		

Notes:

* = Groundwater Elevation is 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, *Remedial Action Report / Groundwater Monitoring Report - 2nd Semester 2011*, 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	--	--	--	--	--	--
		Well Destroyed May 17, 2011											
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

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-1R Cont.	03/28/14	1,200	3.7	11	34	299	1.2	--	--	<2.0[1]	<20	--	--
	08/14/14	560	1.9	0.83	3.9	20	0.79	--	--	<1.0	<10	--	--
	01/28/15	1,900	6.4	9.3	36	285	1.0	--	--	<2.0[1]	<20[1]	--	--
	07/09/15	360	1.4	0.51	1.9	6.0	<0.50	--	--	<1.0	<10	--	--
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	--	--
	08/14/14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<1.0	<10	--	--
	01/28/15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<1.0	<10	--	--
	07/09/15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<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
		Well Destroyed May 17, 2011											
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	--	--
	08/14/14	<800[1]	<4.0[1]	<4.0[1]	<4.0[1]	<4.0[1]	5.2	--	--	<8.0[1]	5,200	--	--
	01/28/15	140	<0.50	<0.50	<0.50	<0.50	23	--	--	4.1	6,500	--	--
	07/09/15	<200[1]	<1.0[1]	<1.0[1]	<1.0[1]	<1.0[1]	2.5	--	--	<2.0[1]	2,100	--	--

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
		Well Destroyed May 17, 2011											
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	--	--
	08/14/14	<50	<0.50	<0.50	<0.50	<0.50	4.7	--	--	<1.0	<10	--	--
	01/28/15	<100[2]	<0.50	<0.50	<0.50	<0.50	8.8	--	--	1.4	190	--	--
	07/09/15	<50	<0.50	<0.50	<0.50	<0.50	3.9	--	--	<1.0	<10	--	--

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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	--	--
	08/14/14	<50	<0.50	<0.50	<0.50	<0.50	3.7	--	--	<1.0	<10	--	--
	01/28/15	<50	<0.50	<0.50	<0.50	<0.50	16	--	--	2.8	57	--	--
	07/09/15	<50	<0.50	<0.50	<0.50	<0.50	3.0	--	--	<1.0	<10	--	--

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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	--	--
	08/14/14	<50	0.56	<0.50	<0.50	<0.50	1.5	--	--	<1.0	14	--	--
	01/28/15	90	4.6	<0.50	3.0	0.88	5.5	--	--	1.0	12	--	--
	07/09/15	<50	0.52	<0.50	<0.50	<0.50	1.5	--	--	<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-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	--	--
	08/14/14	8,800	25	<5.0[1]	400	460	99	--	--	<10[1]	1,200	--	--
	01/28/15	28,000	140	<40[1]	1,600	1,542	<40[1]	--	--	<80[1]	<800[1]	--	--
	07/09/15	10,000	47	6.4	410	225.5	130	--	--	7.3	830	--	--
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	--	--
	08/14/14	<3,000[1]	<15[1]	<15[1]	<15[1]	<15[1]	160	--	--	<30[1]	20,000	--	--
	01/28/15	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	93	--	--	<20[1]	15,000	--	--
	07/09/15	<1,000[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	44	--	--	<10[1]	10,000	--	--
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	--	--
	08/14/14	64	<0.50	<0.50	<0.50	<0.50	130	--	--	3.5	<10	--	--
	01/28/15	<50	<0.50	<0.50	<0.50	<0.50	62	--	--	1.0	<10	--	--
	07/09/15	68	<0.50	<0.50	<0.50	<0.50	86	--	--	1.8	<10	--	--
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	--	--
	08/14/14	<50	<0.50	<0.50	<0.50	<0.50	21	--	--	<1.0	<10	--	--
	01/28/15	<50	<0.50	<0.50	<0.50	<0.50	23	--	--	<1.0	<10	--	--
	07/09/15	<50	<0.50	<0.50	<0.50	<0.50	17	--	--	<1.0	<10	--	--

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

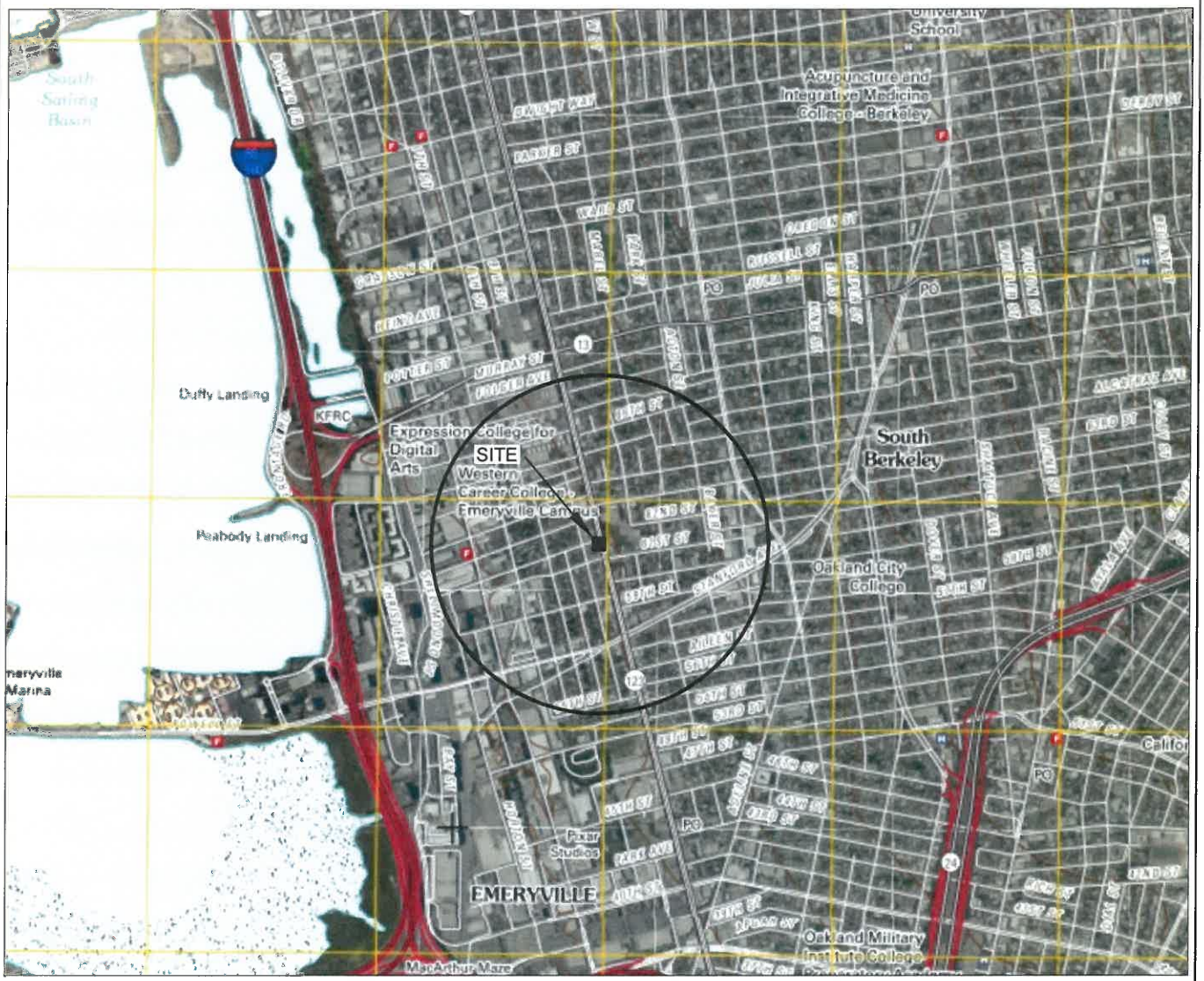
Well ID	Date Collected	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		µg/L											
EX-1	02/19/04	120,000	9,500	4,300	840	3,900	150,000	--	--	--	--	--	--
	02/14/08	84,000	2,300	4,900	1,800	14,000	3,900	ND	ND	ND	ND	ND	ND
	05/15/08	24,000	2,100	750	640	2,100	1,800	<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
		Well Destroyed May 17, 2011											

Notes:
µg/L = Micrograms per liter
GRO = Gasoline Range Organics (C4-C13)
MTBE = Methyl Tertiary Butyl Ether
TAME= Tertiary Amyl Methyl Ether
ETBE= Ethyl Tertiary Butyl Ether
DIPE= Di-Isopropyl Ether
TBA = Tertiary Butyl Alcohol
1,2-DCA= 1,2-Dichloroethane
EDB = Ethylene dibromide

1 = Reporting limits were increased due to high concentrations of target analytes.
2 = Reporting limits were increased due to sample foaming.

Analytical Methods:
GRO by EPA Method SW8015B/SW8260B
All other analytes by EPA Method SW8260B.

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



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

N

QUADRANGLE LOCATION

0 2000 FT

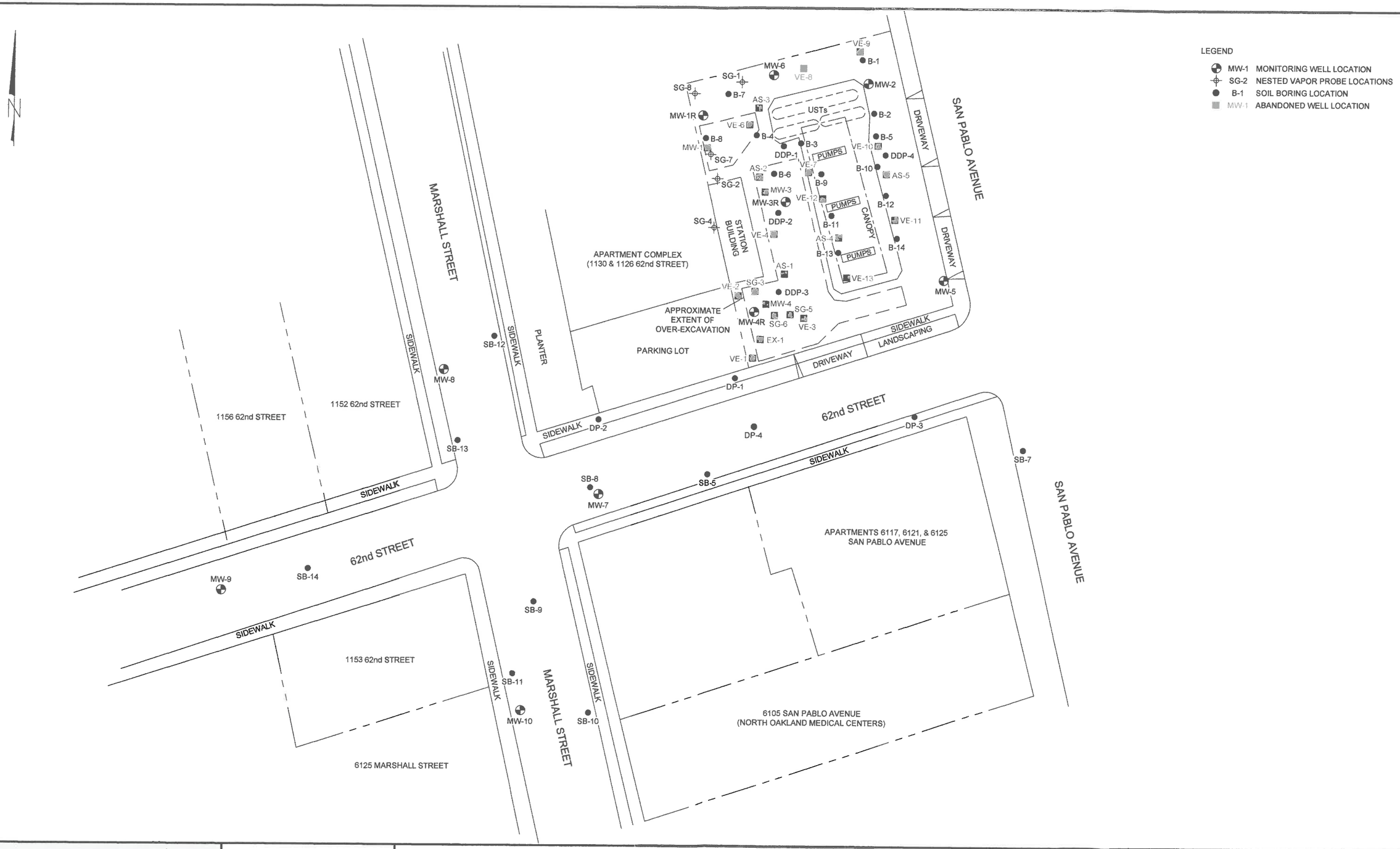
SCALE 1:24,000

STRATUS ENVIRONMENTAL, INC.

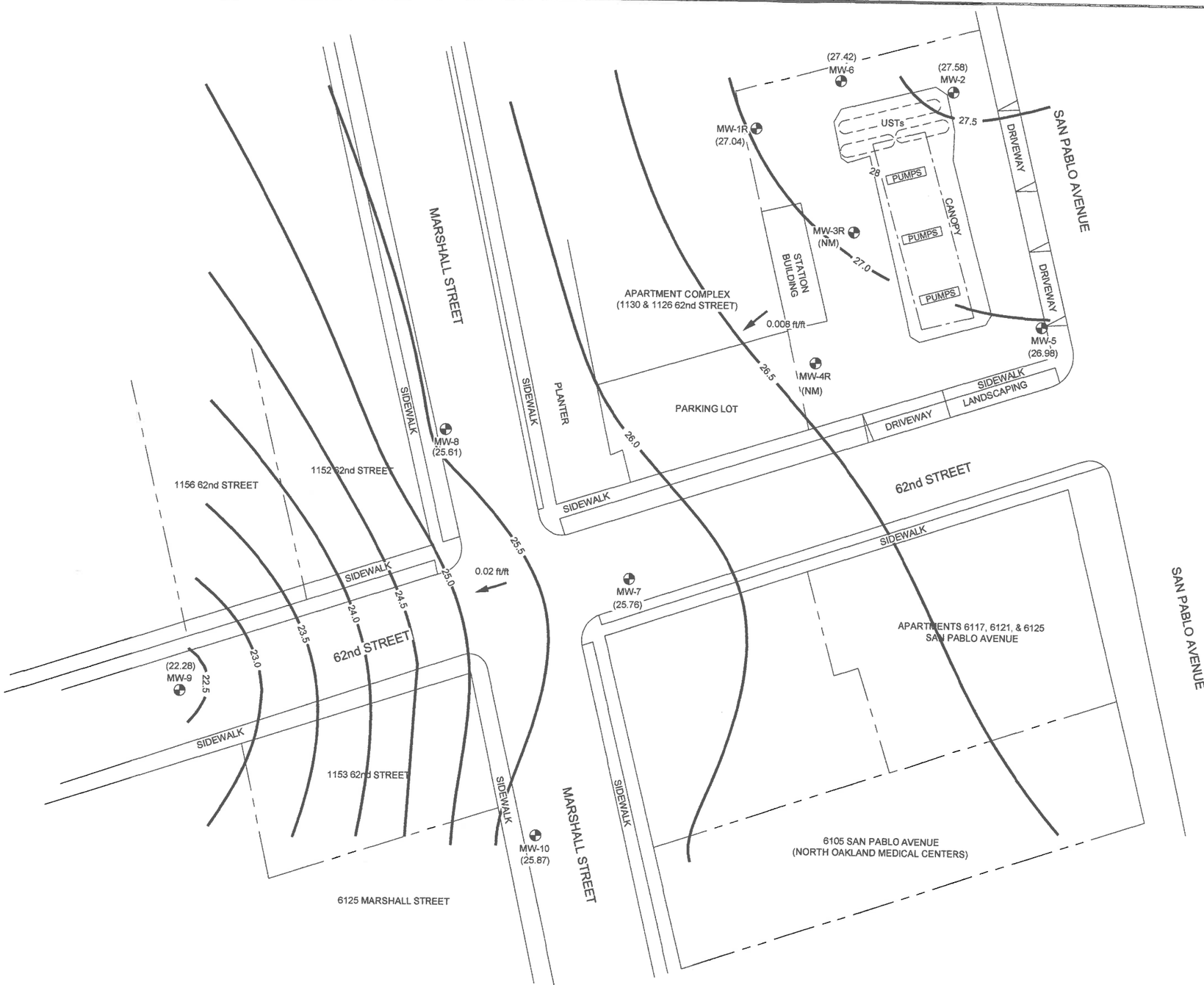
ALASKA GAS SERVICE STATION
6211 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
PROJECT NO.
2192-6211-01



STRATUS ENVIRONMENTAL, INC.	PATH NAME: Alaska Gas DRAFTER INITIALS: JMP DATE LAST REVISED: February 10, 2015 FILENAME: Alaska Site Vicinity Map	0 50 FT APPROXIMATE SCALE	ALASKA GAS SERVICE STATION 6211 SAN PABLO AVENUE OAKLAND, CALIFORNIA SITE VICINITY MAP	FIGURE 2 PROJECT NO. 2192-6211-01



LEGEND

- MW-1 MONITORING WELL LOCATION
- (25.76) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
- 26 GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MSL
- INFERRED GROUNDWATER FLOW DIRECTION

WELLS MEASURED ON 07/09/15
MSL = MEAN SEA LEVEL
(NM) = WELL NOT SURVEYED, GROUNDWATER ELEVATION UNKNOWN

STRATUS ENVIRONMENTAL, INC.

PATH NAME: Alaska Gas\Quarterly Figures
DRAFTER INITIALS: JMP
DATE LAST REVISED: February 12, 2015
FILENAME: Alaska Quarterly Figures

0 50 FT
APPROXIMATE SCALE

ALASKA GAS SERVICE STATION
6211 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
3rd QUARTER 2015

FIGURE
3

PROJECT NO.
2192-6211-01

N

LEGEND

MW-1 MONITORING WELL LOCATION

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

ALL WELLS SAMPLED ON 07/09/15
GRO ANALYZED BY EPA METHOD SW8015B\SW8260B
TBA, MTBE, & BENZENE ANALYZED BY EPA METHOD SW8260B

MW-6 [<50 / 0.52 / 1.5 / <10]
MW-2 [<50 / <0.50 / <0.50 / <10]
MW-1R [360 / 1.4 / <0.50 / <10]
USTs
PUMPS
CANOPY
PUMPS
PUMPS
DRIVEWAY
SAN PABLO AVENUE
DRIVEWAY
MW-3R [<200 / <1.0 / 2.5 / 2,100]
STATION BUILDING
APARTMENT COMPLEX
(1130 & 1126 62nd STREET)
MW-5 [<50 / <0.50 / 3.0 / <10]
MW-4R [<50 / <0.50 / 3.9 / <10]
SIDEWALK
LANDSCAPING
DRIVEWAY
PARKING LOT
MARSHALL STREET
SIDEWALK
PLANTER
SIDEWALK
MW-8 [<1,000 / <5.0 / 44 / 10,000]
1156 62nd STREET
1152 62nd STREET
SIDEWALK
62nd STREET
SIDEWALK
MW-7 [10,000 / 47 / 130 / 830]
APARTMENTS 6117, 6121, & 6125
SAN PABLO AVENUE
SAN PABLO AVENUE
MW-9 [68 / <0.50 / 86 / <10]
SIDEWALK
1153 62nd STREET
SIDEWALK
MARSHALL STREET
SIDEWALK
[<50 / <0.50 / 17 / <10] MW-10
6125 MARSHALL STREET
6105 SAN PABLO AVENUE
(NORTH OAKLAND MEDICAL CENTERS)

STRATUS ENVIRONMENTAL, INC.

PATH NAME: Alaska Gas\Quarterly Figures
DRAFTER INITIALS: JED
DATE LAST REVISED: August 27, 2015
FILENAME: Alaska Quarterly Figures

0 50 FT
APPROXIMATE SCALE

ALASKA GAS SERVICE STATION
6211 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
3rd QUARTER 2015

FIGURE
4

PROJECT NO.
2192-6211-01

APPENDIX A

FIELD DATA SHEETS

STRATUS ENVIRONMENTAL, INC.

Site Address 6211 San Pablo Ave
City Oakland
Sampled by:
Signature CHILL

Site Number Alaska Gas
Project Number
Project PM Scott
DATE 7-9-15

ORIGINAL

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)
MW1R	0347		9.63	22.71	13.08	2	.5	6	6		X			9.87	1R	0504	1.05
MW2	0345		8.75	20.52	11.77			6	6		X			12.13	2	0546	1.86
MW3R	0348		8.89	14.80	5.96			3	3		X			8.97	3R	0445	1.49
MW4R	0351		7.20	14.63	7.43	1		4	4		X			7.37	4R	0430	1.46
MW5	0350		8.19	24.11	15.92	2	.5	8	8		X			8.27	5	0402	8.54
MW6	0346		8.65	23.09	14.44			7	7		X			8.92	6	0527	1.08
MW7	0624		5.40	15.74	10.34			5	5		X			5.81	7	0637	—
MW8	0606		5.31	14.75	9.44			5	5		X			6.13	8	0622	1.71
MW9	0550		6.62	14.87	8.25			4	4		X			7.36	9	0604	1.26
MW10	0641		4.41	14.90	10.49	2	.5	5	5		X			4.52	10	0710	1.33
									53								

MW7 Heavy Sheen

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 7-2-15
Conductivity
DO

T:\Forms

ORIGINAL

STRATUS ENVIRONMENTAL, INC.

Site Address 6211 San Pablo
City Oakland
Sampled By:
Signature CHILL

Site Number Alameda 6145
Project Number
Project PM Scott
DATE 7/9/15

Well ID MW5 — 8
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0355	20.4	6.69	744.8	8
time 0401	20.4	6.77	716.5	4
time 0407	20.1	6.82	699.3	6
time				

purge stop time 0.5420 — ORP 216

Well ID MW4R — 4
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0418	22.3	6.91	676.9	8
time 0422	23.1	6.95	676.7	2
time 0424	23.1	6.96	675.0	4
time				

purge stop time 1.46 PD — ORP 1016

Well ID MW3R — 3
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0435	21.6	6.80	724.1	8
time 0440	21.5	6.92	674.5	3
time				
time				

purge stop time 1.49 — ORP 7.0

Well ID MW1R — 6
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0457	19.7	6.77	695.4	8
time 0455	19.4	6.77	695.8	3
time 0500	19.4	6.82	675.1	6
time				

purge stop time 1.05 — ORP 8.1

Well ID MW6 — 7
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0511	19.3	6.77	580.4	8
time 0516	19.0	6.77	582.0	3
time 0521	15.0	6.77	586.5	7
time				

purge stop time 1.06 — ORP 8.1

Well ID MW2 — 6
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0532	20.4	6.62	671.2	0
time 0536	19.9	6.74	666.3	3
time 0540	19.9	6.77	663.3	6
time				

purge stop time 1.06 — ORP 7.0

Well ID MW9 — 4
Purge start time 0604 — Odor Y (N)

	Temp C	pH	cond	gallons
time 0553	21.5	6.86	624.1	8
time 0555	21.4	6.94	633.1	2
time 0558	21.4	6.96	637.2	4
time				

purge stop time 1.26 — ORP 7.5

Well ID MW8 — 5
Purge start time — Odor (Y) N

	Temp C	pH	cond	gallons
time 0609	21.2	6.71	838.1	8
time 0612	21.8	6.77	845.1	3
time 0615	20.9	6.77	843.5	5
time				

purge stop time 1.71 — ORP 2.5

ORIGINAL

STRATUS ENVIRONMENTAL, INC.

Site Address: 6261 San Pablo
City: Oakland
Sampled By:
Signature: CHILL

Site Number: Alaska Gas
Project Number:
Project PM: Scott
DATE: 7-9-15

Well ID	MW 10			5"
Purge start time			Odor	Y (N)
	Temp C	pH	cond	gallons
time 0645	18.8	6.81	704.0	0
time 0649	18.7	6.90	700.5	3
time 0655	18.7	6.93	691.5	5
time				
purge stop time	1.33		ORP	-4.1

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Billing Information:

Company: Stantec
Attn: Scott
Address: 3330 Cameron Park Dr.
City, State, Zip: Cameron Park
Phone Number: _____ Fax: _____

Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 — Phone: 775-355-1044, Fax: 775-355-0406

Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 — Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

04342

Page # 1 of 1

Consultant/Client Info:
Company: Stantec
Address: _____
City, State, Zip: _____

Job and Purchase Order Info:
Job #
Job Name: Alaska GRS
P.O. #: _____

Report Attention/Project Manager:
Name: Scott
Email Address: _____
Phone #: _____
Cell #: _____

QC Deliverable Info:
EDD Required? Yes / No
EDF Required? Yes / No
Global ID: T0600101804
Data Validation Packages: III or IV

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

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO	BTEX	MTBE	TAME	TBA	Remarks
0505	7/8	AQ		MW-1R	STD	3		X	X	X	X	X	X	
0546				MW-2		3								
0449				MW-3R		3								
0430				MW-4R		3								
0412				MW-5		3								
0527				MW-6		3								
0637				MW-7		3								
0622				MW-8		3								
0604				MW-9		3								
0710	7/9	AQ		MW-10		3		X	X	X	X	X	X	

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: P. HILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Stantec	7-9-15				

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

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

APPENDIX B

SAMPLING AND ANALYSES PROCEDURES

APPENDIX B

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 typical 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 accruing 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, nonconforments, 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.

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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 : 07/10/15

Job: 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 :	STR15071041-01A	TPH-P (GRO)	360		50 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 05:05	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	07/17/15	07/17/15
		Benzene	1.4		0.50 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/15	07/17/15
		Toluene	0.51		0.50 µg/L	07/17/15	07/17/15
		Ethylbenzene	1.9		0.50 µg/L	07/17/15	07/17/15
		m,p-Xylene	6.0		0.50 µg/L	07/17/15	07/17/15
		o-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
Client ID :	**MW-2**						
Lab ID :	STR15071041-02A	TPH-P (GRO)	ND		50 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 05:46	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	07/17/15	07/17/15
		Benzene	ND		0.50 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/15	07/17/15
		Toluene	ND		0.50 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND		0.50 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
		o-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
Client ID :	**MW-3R**						
Lab ID :	STR15071041-03A	TPH-P (GRO)	ND	V	200 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 04:45	Tertiary Butyl Alcohol (TBA)	2,100		20 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	2.5		1.0 µg/L	07/17/15	07/17/15
		Benzene	ND	V	1.0 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	07/17/15	07/17/15
		Toluene	ND	V	1.0 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND	V	1.0 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND	V	1.0 µg/L	07/17/15	07/17/15
		o-Xylene	ND	V	1.0 µg/L	07/17/15	07/17/15
Client ID :	**MW-4R**						
Lab ID :	STR15071041-04A	TPH-P (GRO)	ND		50 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 04:30	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	3.9		0.50 µg/L	07/17/15	07/17/15
		Benzene	ND		0.50 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/15	07/17/15
		Toluene	ND		0.50 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND		0.50 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
		o-Xylene	ND		0.50 µg/L	07/17/15	07/17/15

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Client ID :	**MW-5**						
Lab ID :	STR15071041-05A	TPH-P (GRO)	ND		50 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 04:12	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	3.0		0.50 µg/L	07/17/15	07/17/15
		Benzene	ND		0.50 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/15	07/17/15
		Toluene	ND		0.50 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND		0.50 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
		o-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
Client ID :	**MW-6**						
Lab ID :	STR15071041-06A	TPH-P (GRO)	ND		50 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 05:27	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	1.5		0.50 µg/L	07/17/15	07/17/15
		Benzene	0.52		0.50 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/15	07/17/15
		Toluene	ND		0.50 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND		0.50 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
		o-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
Client ID :	**MW-7**						
Lab ID :	STR15071041-07A	TPH-P (GRO)	10,000		500 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 06:37	Tertiary Butyl Alcohol (TBA)	830		50 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	130		2.5 µg/L	07/17/15	07/17/15
		Benzene	47		2.5 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	7.3		5.0 µg/L	07/17/15	07/17/15
		Toluene	6.4		2.5 µg/L	07/17/15	07/17/15
		Ethylbenzene	410		2.5 µg/L	07/17/15	07/17/15
		m,p-Xylene	220		2.5 µg/L	07/17/15	07/17/15
		o-Xylene	5.5		2.5 µg/L	07/17/15	07/17/15
Client ID :	**MW-8**						
Lab ID :	STR15071041-08A	TPH-P (GRO)	ND	V	1,000 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 06:22	Tertiary Butyl Alcohol (TBA)	10,000		100 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	44		5.0 µg/L	07/17/15	07/17/15
		Benzene	ND	V	5.0 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	ND	V	10 µg/L	07/17/15	07/17/15
		Toluene	ND	V	5.0 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND	V	5.0 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND	V	5.0 µg/L	07/17/15	07/17/15
		o-Xylene	ND	V	5.0 µg/L	07/17/15	07/17/15
Client ID :	**MW-9**						
Lab ID :	STR15071041-09A	TPH-P (GRO)	68		50 µg/L	07/17/15	07/17/15
Date Sampled	07/09/15 06:04	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/15	07/17/15
		Methyl tert-butyl ether (MTBE)	86		0.50 µg/L	07/17/15	07/17/15
		Benzene	ND		0.50 µg/L	07/17/15	07/17/15
		Tertiary Amyl Methyl Ether (TAME)	1.8		1.0 µg/L	07/17/15	07/17/15
		Toluene	ND		0.50 µg/L	07/17/15	07/17/15
		Ethylbenzene	ND		0.50 µg/L	07/17/15	07/17/15
		m,p-Xylene	ND		0.50 µg/L	07/17/15	07/17/15
		o-Xylene	ND		0.50 µg/L	07/17/15	07/17/15

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Client ID : **MW-10**
Lab ID : STR15071041-10A
Date Sampled 07/09/15 07:10

TPH-P (GRO)	ND	50 µg/L	07/17/15	07/17/15
Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/17/15	07/17/15
Methyl tert-butyl ether (MTBE)	17	0.50 µg/L	07/17/15	07/17/15
Benzene	ND	0.50 µg/L	07/17/15	07/17/15
Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/17/15	07/17/15
Toluene	ND	0.50 µg/L	07/17/15	07/17/15
Ethylbenzene	ND	0.50 µg/L	07/17/15	07/17/15
m,p-Xylene	ND	0.50 µg/L	07/17/15	07/17/15
o-Xylene	ND	0.50 µg/L	07/17/15	07/17/15

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.

ACCREDITED DoD ELAP

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

7/17/15
Report Date

Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: STR15071041 **Job:** Alaska GAS

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15071041-01A	MW-1R	Aqueous	2
15071041-02A	MW-2	Aqueous	2
15071041-03A	MW-3R	Aqueous	2
15071041-04A	MW-4R	Aqueous	2
15071041-05A	MW-5	Aqueous	2
15071041-06A	MW-6	Aqueous	2
15071041-07A	MW-7	Aqueous	2
15071041-08A	MW-8	Aqueous	2
15071041-09A	MW-9	Aqueous	2
15071041-10A	MW-10	Aqueous	2

7/17/15

Report Date

Alpha Analytical, Inc.

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Date: *20-Jul-15*

QC Summary Report

Work Order: 15071041

Method Blank

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

File ID: **15071635.D** Batch ID: **MS09W0716D** Analysis Date: **07/17/2015 01:46**

Sample ID: **MBLK MS09W0716D** Units : **µg/L** Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 01:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.22		10		92	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	10.8		10		108	70	130			

Laboratory Control Spike

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

File ID: **15071634.D** Batch ID: **MS09W0716D** Analysis Date: **07/17/2015 01:21**

Sample ID: **GLCS MS09W0716D** Units : **µg/L** Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 01:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	367	50	400		92	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10		91	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	10.3		10		103	70	130			

Sample Matrix Spike

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

File ID: **15071658.D** Batch ID: **MS09W0716D** Analysis Date: **07/17/2015 11:15**

Sample ID: **15071041-01AGS** Units : **µg/L** Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 11:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1660	250	2000	361.5	65	54	143			
Surr: 1,2-Dichloroethane-d4	46.4		50		93	70	130			
Surr: Toluene-d8	51.1		50		102	70	130			
Surr: 4-Bromofluorobenzene	52.1		50		104	70	130			

Sample Matrix Spike Duplicate

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

File ID: **15071659.D** Batch ID: **MS09W0716D** Analysis Date: **07/17/2015 11:40**

Sample ID: **15071041-01AGSD** Units : **µg/L** Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 11:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1800	250	2000	361.5	72	54	143	1660	7.8(23)	
Surr: 1,2-Dichloroethane-d4	45.2		50		90	70	130			
Surr: Toluene-d8	51.6		50		103	70	130			
Surr: 4-Bromofluorobenzene	52.3		50		105	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: *20-Jul-15*

QC Summary Report

Work Order: 15071041

Method Blank

Type **MBLK** Test Code: **EPA Method 624/8260**

File ID: **15071635.D** Batch ID: **MS09W0716C** Analysis Date: **07/17/2015 01:46**

Sample ID: **MBLK MS09W0716C** Units : µg/L Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 01:46**

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	9.22		10		92	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	10.8		10		108	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 624/8260**

File ID: **15071632.D** Batch ID: **MS09W0716C** Analysis Date: **07/17/2015 00:32**

Sample ID: **LCS MS09W0716C** Units : µg/L Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 00:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.34	0.5	10		93	63	137			
Benzene	9.94	0.5	10		99	70	130			
Toluene	9.89	0.5	10		99	70	130			
Ethylbenzene	10.1	0.5	10		101	70	130			
m,p-Xylene	8.92	0.5	10		89	65	139			
o-Xylene	9.54	0.5	10		95	70	130			
Surr: 1,2-Dichloroethane-d4	9.38		10		94	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 624/8260**

File ID: **15071709.D** Batch ID: **MS09W0716C** Analysis Date: **07/17/2015 16:25**

Sample ID: **15070741-09AMS** Units : µg/L Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 16:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	40.7	1.3	50	0	81	56	140			
Benzene	45.8	1.3	50	0	92	67	134			
Toluene	45.3	1.3	50	0	91	38	130			
Ethylbenzene	46.7	1.3	50	0	93	70	130			
m,p-Xylene	40.3	1.3	50	0	81	65	139			
o-Xylene	43.1	1.3	50	0	86	69	130			
Surr: 1,2-Dichloroethane-d4	46.7		50		93	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	52.2		50		104	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 624/8260**

File ID: **15071710.D** Batch ID: **MS09W0716C** Analysis Date: **07/17/2015 16:50**

Sample ID: **15070741-09AMSD** Units : µg/L Run ID: **MSD_09_150716C** Prep Date: **07/17/2015 16:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	43.9	1.3	50	0	88	56	140	40.69	7.6(40)	
Benzene	48	1.3	50	0	96	67	134	45.81	4.6(21)	
Toluene	46.5	1.3	50	0	93	38	130	45.32	2.6(20)	
Ethylbenzene	48.7	1.3	50	0	97	70	130	46.72	4.2(20)	
m,p-Xylene	42.5	1.3	50	0	85	65	139	40.33	5.1(20)	
o-Xylene	45.4	1.3	50	0	91	69	130	43.1	5.1(20)	
Surr: 1,2-Dichloroethane-d4	46.8		50		94	70	130			
Surr: Toluene-d8	50.4		50		101	70	130			
Surr: 4-Bromofluorobenzene	51.2		50		102	70	130			

Alpha Analytical, Inc.

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

Date: *20-Jul-15*

QC Summary Report

Work Order: 15071041

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

CA

WorkOrder : STR15071041

Report Due By : 5:00 PM On : 17-Jul-15

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

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

PO :

Client's COC # : 04342 Job : Alaska GAS

EDD Required : Yes

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
2 °C	10-Jul-15	10-Jul-15

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W							Sample Remarks
STR15071041-01A	MW-1R	AQ	07/09/15 05:05	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-02A	MW-2	AQ	07/09/15 05:46	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-03A	MW-3R	AQ	07/09/15 04:45	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-04A	MW-4R	AQ	07/09/15 04:30	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-05A	MW-5	AQ	07/09/15 04:12	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-06A	MW-6	AQ	07/09/15 05:27	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-07A	MW-7	AQ	07/09/15 06:37	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-08A	MW-8	AQ	07/09/15 06:22	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-09A	MW-9	AQ	07/09/15 06:04	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							
STR15071041-10A	MW-10	AQ	07/09/15 07:10	3	0	5	GAS-C	BTEX/TBA/ TAME/M_C							

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:		JESSICA ALVARADO.	Alpha Analytical, Inc.	7/10/15 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: Stantec
Attn: Scott
Address: 3330 Cameron Pk
City, State, Zip: Cameron Pk
Phone Number: Fax:

Alpha Analytical, Inc.

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

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 — Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

04342

Page # 1 of 1

Consultant/Client Info: Stantec
Company:
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Alaska Gas
P.O. #:

Report Attention/Project Manager:
Name: Scott
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No
EDF Required? Yes / No
Global ID: T0600101804
Data Validation Packages: III or IV

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

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO	BTEX	MTBE	TAME	TBA						Remarks
0505	7/8/15	AQ	STR15071041-01A	MW-1R	STD	3		X	X	X	X	X	X						
0546			-02A	MW-2		3													
0445			-03A	MW-3R		3													
0430			-04A	MW-4R		3													
0412			-05A	MW-5		3													
0527			-06A	MW-6		3													
0637			-07A	MW-7		3													
0622			-08A	MW-8		3													
0604			-09A	MW-9		3													
0710	7/9/15	AQ	-10A	MW-10		3		X	X	X	X	X	X						

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: C Hill

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
C Hill Stantec	7-9-15	1135	Melissa T	7-9-15	1135
			[signature]	7/10/15	1015

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

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

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!

Submittal Type:	**GEO_WELL**
Report Title:	**3Q15 GEO WELL**
Facility Global ID:	**T0600101804**
Facility Name:	**ALASKA GASOLINE**
File Name:	**GEO_WELL.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**50.192.223.97**
Submittal Date/Time:	**8/10/2015 10:37:05 AM**
Confirmation Number:	**2038065314**

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!

Submittal Type:	EDF
Report Title:	3rd Quarter 2015 Groundwater Monitoring Analytical Results
Report Type:	Monitoring Report - Semi-Annually
Facility Global ID:	T0600101804
Facility Name:	ALASKA GASOLINE
File Name:	15071041_EDF.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	50.192.223.97
Submittal Date/Time:	8/25/2015 10:02:59 AM
Confirmation Number:	8959448277

VIEW QC REPORT

VIEW DETECTIONS REPORT