December 29, 2006

Mr. Barney Chan
Alameda County
Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Ste. 250
Alameda, California 94502-6577

RE: December 2006 Quarterly Groundwater Monitoring Report and Summary of Remediation
Alaska Gas
6211 San Pablo Avenue
Oakland, California

Dear Mr. Chan:

Attached for your review and comment is the January 2, 2007 "*Results of the December 2006 Quarterly Groundwater Monitoring Event and Summary of Remediation, Alaska Gasoline Company, Oakland, California, Case #RO0000127*" report prepared by HerSchy Environmental, Inc upon my behalf, for the above-referenced site.

As the legally authorized representative of the above-referenced project, I have reviewed the attached report and declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,

Mr. Pritpaul Sappal

HerSchy Environmental, Inc.

January 2, 2007
Project A51-01

Mr. Barney Chan
Alameda County
Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Ste. 250
Alameda, California 94502-6577

Re: Results of the December 2006 Quarterly Groundwater Monitoring Event and Summary of Remediation, Alaska Gasoline Company, Oakland, California, Case #RO0000127

Dear Mr. Chan:

HerSchy Environmental, Inc. is pleased to present the results of the most recent quarterly groundwater monitoring event for the above-referenced site. A summary of remediation progress is also presented. The air abatement equipment was constructed and operates pursuant to the Authority to Construct permit #10975, issued by the Bay Area Air Quality Management District. The site is located at 6211 San Pablo Avenue, which is on the northwest corner of San Pablo Avenue and 62nd Street in Oakland, Alameda County, California (Figure 1). Groundwater monitoring was performed on December 1, 2006.

METHODS OF INVESTIGATION

Groundwater Sampling Procedures:

Groundwater samples were collected from five of the seven monitoring and extraction wells on December 1, 2006. Monitoring well MW-4 and extraction well EX-1 were found to have floating product, and therefore were not sampled. All monitoring wells were measured for static water level and total depth using an electric sounder prior to initiating sampling. Depth to groundwater was recorded to the nearest 0.01 feet on field sampling data sheets. The groundwater elevation in the monitoring wells was calculated by subtracting the measured depth to groundwater from the surveyed well elevation. The depth to groundwater, total depth of the well, and well diameter were used to calculate the purge volume.

At least three casing volumes were purged from each well prior to collecting a groundwater sample using a Waterra electric pump and dedicated hoses. Physical characteristics (temperature, electrical conductivity, and pH) were measured at the initiation of purging and then again just prior to collection of the groundwater sample. These characteristics were recorded on field sampling data sheets which are presented in Appendix A. One sample from each well was collected and contained in three 40-milliliter vials. Each of the sample containers were filled completely to form a positive meniscus, capped, and checked to ensure no air bubbles were present.

Samples were sealed in a ziplock bag and placed in a cooler chest with frozen gel packs ("blue ice") immediately after sampling. Samples were maintained at, or below, four degrees Celsius until

delivered to the laboratory. Groundwater samples were handled under chain-of-custody documentation until delivered to a California certified laboratory.

Laboratory Analysis:

Groundwater samples were analyzed for gasoline-range total petroleum hydrocarbons (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). Samples were analyzed using EPA method 8020 for BTEX and MTBE. Groundwater samples were also analyzed for the fuel oxygenates and additives MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butanol (TBA), 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB) using EPA method 8260b.

RESULTS OF INVESTIGATION

Groundwater Conditions:

Because MW-4 and EX-1 contained floating product, groundwater data from these wells were not used in determining the groundwater flow direction or gradient.

Groundwater was present beneath the site at an average depth of 7.34 feet below the surveyed well elevations during the December 2006 monitoring event. Groundwater elevation during this quarter averaged 28.53 feet above mean sea level. This represents an increase in average groundwater elevation of about 0.48 feet since the August 2006 monitoring event, based on average depth to groundwater. Groundwater flow direction was approximately South 9 degrees West at a gradient of 0.03 on December 1, 2006. Groundwater conditions are summarized in Table 1 and are presented graphically in Figure 2.

Table 1
Groundwater Conditions, Alaska Gasoline, Oakland

Well Number	Elevation	Depth to GW	GW Elevation
November 17, 2005			
EX-1	33.28	NS	NS
MW-1R	36.67	8.41	28.26
MW-2	36.33	7.88	28.45
MW-3	35.12	7.56	27.56
MW-4	34.11	0.75' free product	------
MW-5	35.17	6.47	28.70
MW-6	36.07	7.80	28.27
Flow Direction = S. 35 W.; Gradient = .010			
February 8, 2006			
EX-1*	33.28	4.92*	28.36*
MW-1R	36.67	6.81	29.86
MW-2	36.33	6.24	30.09
MW-3	35.12	6.00	29.12
MW-4	34.11	0.27' free product	------
MW-5	35.17	5.53	29.64
MW-6	36.07	6.16	29.91
Flow Direction = S. 48 W.; Gradient = .010			

Table 1

Groundwater Conditions, Alaska Gasoline, Oakland

Well Number	Elevation	Depth to GW	GW Elevation
May 5, 2006			
EX-1	33.28	0.81' free product	------
MW-1R	36.67	7.46	29.21
MW-2	36.33	6.89	29.44
MW-3	35.12	6.65	28.47
MW-4	34.11	0.39' free product	------
MW-5	35.17	6.10	29.07
MW-6	36.07	6.81	26.26
Flow Direction = S. 28 W.; Gradient = .013			
August 18, 2006			
EX-1	33.28	0.69' free product	------
MW-1R	36.67	8.58	28.09
MW-2	36.33	8.05	28.28
MW-3	35.12	7.73	27.39
MW-4	34.11	0.46' free product	------
MW-5	35.17	6.77	28.40
MW-6	36.07	7.97	28.10
Flow Direction = S. 19 W.; Gradient = .0125			
December 1, 2006			
EX-1	33.28	1/16 inch free product	------
MW-1R	36.67	6.56	30.11
MW-2	36.33	7.58	28.75
MW-3	35.12	8.51	26.61
MW-4	34.11	0.48' free product	------
MW-5	35.17	6.47	28.70
MW-6	36.07	7.60	28.47
Flow Direction = S. 9 W.; Gradient = .03			

Elevations in feet NS = buried and not sounded or sampled

* = Screen drowned, all free product previously extracted during testing on 12/27/05

Based on the data gathered from the site monitoring wells, the groundwater flow direction is toward San Francisco Bay, located approximately 0.75 miles southwest of the site. Regional groundwater flow appears to parallel the surface grade in the area.

Groundwater Quality:

Groundwater samples were submitted to the laboratory and analyzed for the above-mentioned fuel constituents. Certified analytical reports and chain-of-custody documentation are presented in Appendix B and are summarized in Tables 2 and 3 below. Historical data are presented in tabular form in Appendix C, with data from MW-!R, MW-2, and MW-3 presented graphically in Plates 1 through 3, respectively.

Table 2

Laboratory Analytical Results for Groundwater, Alaska Gasoline, Oakland

Well No	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
November 17, 2005						
EX-1	NA	NA	NA	NA	NA	NA
MW-1R	2,500	66	290	75	290	1,300
MW-2	760	19	0.64	15	13	1,000
MW-3	200,000	2,400	ND	ND	ND	580,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	71	0.81	ND	1.1	ND	1.4
MW-6	1,100	30	ND	4.4	9.0	2,400
February 8, 2006						
EX-1	NA	NA	NA	NA	NA	NA
MW-1R	3,300	100	310	86	470	1,400
MW-2	10,000	1,500	7.6	660	380	4,300
MW-3	470,000	3,800	660	ND	790	490,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	50	ND	ND	ND	ND	1.0
MW-6	3,600	220	43	66	160	2,700
May 5, 2006						
EX-1	NA	NA	NA	NA	NA	NA
MW-1R	3,400	170	350	97	550	1,100
MW-2	15,000	1,800	ND	1,200	1,200	5,800
MW-3	400,000	3,300	ND	ND	ND	590,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	0.93
MW-6	1,600	130	21	37	65	1,400
August 18, 2006						
EX-1	NA	NA	NA	NA	NA	NA
MW-1R	5,800	190	1,000	230	1,000	490
MW-2	360	11	ND	13	9.7	160
MW-3	310,000	1,800	ND	ND	ND	440,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	1.0
MW-6	270	27	ND	3.0	4.0	240
December 1, 2006						
EX-1	NA	NA	NA	NA	NA	NA
MW-1R	410	1.7	6.3	1.2	47	100
MW-2	11,000	1,000	ND	990	910	2,100
MW-3	270,000*	ND	ND	ND	ND	290,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	0.69	ND	ND	0.52	0.97
MW-6	1,700	ND	ND	ND	ND	1,700

All results presented in parts per billion (ppb)
MTBE results by EPA method 8260b

NA= no analysis
* = value due to MTBE

Table 3

Laboratory Analytical Results for Groundwater, Alaska Gasoline, Oakland

Sample	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Methanol	Ethanol
November 17, 2005								
MW-1R	ND	ND	110	1,600	ND	ND	NA	NA
MW-2	ND	ND	26	810	ND	ND	NA	NA
MW-3	ND	ND	24,000	49,000	ND	ND	NA	NA
MW-5	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	ND	ND	190	9,500	ND	ND	NA	NA
February 8, 2006								
MW-1R	ND	ND	130	1,400	ND	ND	NA	NA
MW-2	ND	ND	120	2,800	ND	ND	NA	NA
MW-3	ND	ND	26,000	49,000	ND	ND	NA	NA
MW-5	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	ND	ND	180	7,800	ND	ND	NA	NA
May 5, 2006								
MW-1R	ND	ND	100	2,400	ND	ND	NA	NA
MW-2	ND	ND	150	4,300	ND	ND	NA	NA
MW-3	ND	ND	21,000	86,000	ND	ND	NA	NA
MW-5	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	ND	ND	53	3,100	ND	ND	NA	NA
August 18, 2006								
MW-1R	ND	ND	36	2,900	ND	ND	NA	NA
MW-2	ND	ND	4.6	600	ND	ND	NA	NA
MW-3	ND	ND	23,000	79,000	ND	ND	NA	NA
MW-5	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	ND	ND	11	2,400	ND	ND	NA	NA
December 1, 2006								
MW-1R	ND	ND	4.7	100	ND	ND	NA	NA
MW-2	ND	ND	67	2,000	ND	ND	NA	NA
MW-3	ND	ND	11,000	90,000	ND	ND	NA	NA
MW-5	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	ND	ND	92	800	ND	ND	NA	NA

ND = below detectable concentrations
NA = no analysis
All results in parts per billion (ppb)
NS = not sampled

Plate 1: Historical Concentrations in MW-1R

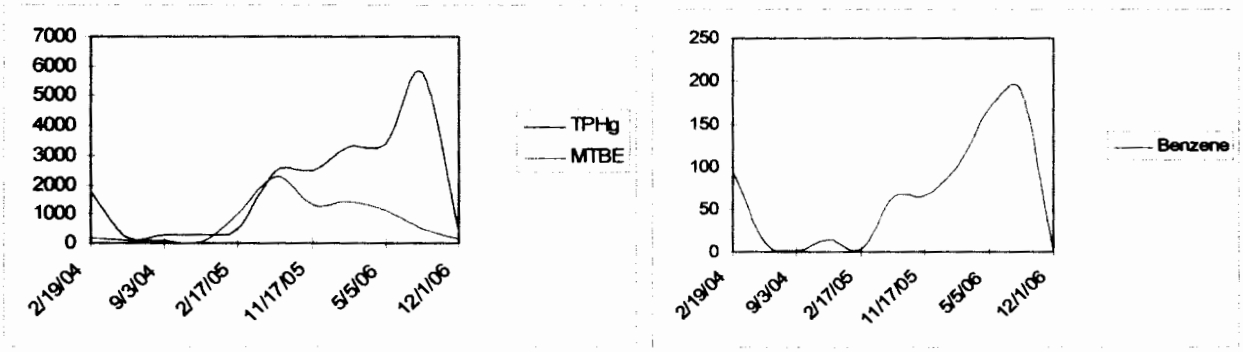


Plate 2: Historical Concentrations in MW-2

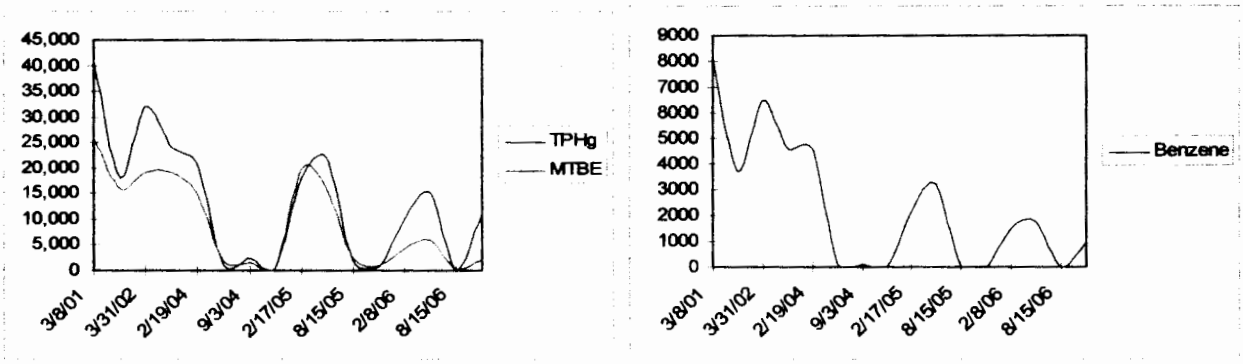
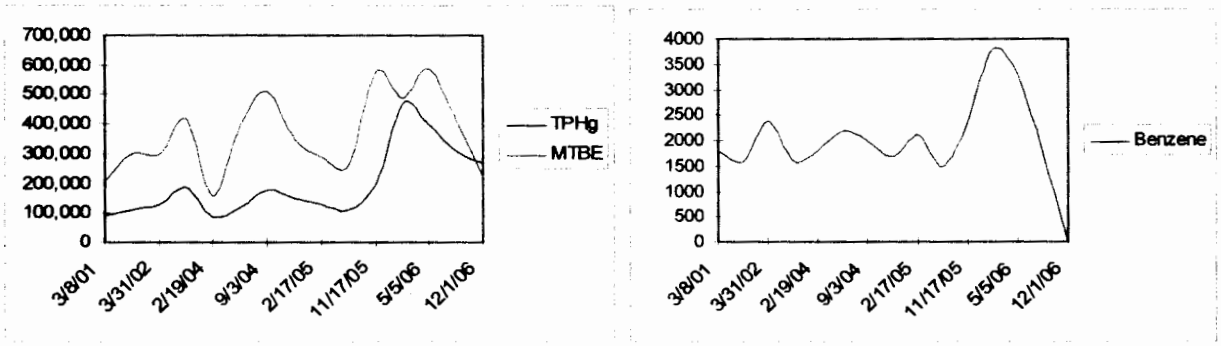


Plate 3: Historical Concentrations in MW-3



SOIL VAPOR EXTRACTION

The soil vapor extraction system (SVES), consisting of a thermal oxidizer equipped with a blower capable of producing up to 250 cubic feet per minute air flow and vacuum of up to 10 inches of mercury, has been operating at the site since August 31, 2006. Periods of down-time have been short and infrequent, usually related to propane delivery issues or water production issues. Table 4 presents a summary of the unit's operating and destruction efficiencies and amount of contaminants removed and discharged based on periodic monitoring of flow rates and laboratory results from samples collected. Please note that Table 4 only represents those dates in which laboratory samples were collected; field measurements of concentrations are not useful due to the previously high concentrations present, as well as excessive water production, both of which adversely affect field equipment. A summary of all site visits and certified laboratory results for vapor are presented in Appendix D.

Parts per million by volume (ppmv) VOCs as gasoline-range TPH can be converted to micrograms per liter (ug/l) by multiplying by 4.1 based on the mole weight of TPH. One liter is equal to 0.03531 cubic feet. To calculate pounds per day (lbs/day) of VOCs, the formula is as follows:

(ug/l)(gm/1,000,000)(kg/1,000 gm)(2.2 lbs/kg) = lbs/l VOCs

Converting lbs/l to total lbs:

(lbs/l)(1/.03531 cf)(cfm)(operating minutes) = lbs VOCs

where cf = cubic feet
cfm = cubic feet per minute

Table 4: Alaska Gas SVES Destruction and Removal Efficiency

	Hour Meter	Hours of Operation	Influent (ppmV)	Effluent (ppmV)	Air Flow (cfm)	Destruciton Efficiency (%)	Effluent Release (lbs/day)	VOCs Removed (lbs/day)	Total VOCs Removed (lbs)	Percent Operating
TPH-G										
8/31/2006	0									
9/11/2006	126	126	3300	0	76.5	100.00	0.000	92.86	487.54	48
10/19/2006	1037	911	0	0	37	100.00	0.000	0.00	0.00	100
10/27/2006	1222	185	530	0	16	100.00	0.000	3.12	24.05	96
12/7/2006	2183	960.8	287.8	0.23	43	99.92	0.004	4.55	182.24	100
12/20/2006	2491	308.6	143.2	0.082	46	99.94	0.001	2.42	31.16	99
BENZENE										
8/31/2006	0									
9/11/2006	126	126	54	0	76.5	100.00	0.000	1.19	6.23	48
10/19/2006	1037	911	0	0	37	100.00	0.000	0.00	0.00	100
10/27/2006	1222	185	2.7	0	16	100.00	0.000	0.01	0.10	96
12/7/2006	2183	960.8	3.8	0	43	100.00	0.000	0.05	1.88	100
12/20/2006	2491	308.6	3.8	0.0025	46	99.93	0.000	0.05	0.65	99

Approximately 6.18 pounds of product (TPHg) removed is the equivalent to one gallon of product. About 725 pounds, or 117 gallons, of product have been removed at this site since startup. Destruction efficiency of this system is well over 99 percent, with 0.004 pounds or less of TPHg and no measurable concentrations of benzene discharged to the atmosphere.

CONCLUSIONS AND RECOMMENDATIONS

Frcc product thickness has returned to approximately 0.48 feet in MW-4 since pumping the product in the September 25, 2006 free product removal test. After five weeks of recovery, only 0.03 feet of product was measured. After eight weeks of recovery, 0.48 feet of product was measured. The December 1 measurement of product in EX-1 indicates there has been no recovery since the product removal test. However, water levels have been rising on-site since August, and are approaching the top of the screened interval in EX-1. Any free product recharge at this point may not be observed accurately, as recharging product may be above the screened interval and outside of the casing. Nevertheless, recharge appears to be slow, as observed by weeks of measurement after the product removal test and prior to the rise in groundwater.

Groundwater concentrations are variable throughout the year based on seasonal groundwater level fluctuations, but appear to be on an overall downward trend. HerSchy Environmental, Inc. is currently working to permit and obtain property owner permissions to perform the direct-push off-site assessment recently approved to assess the off-site migration of dissolved and/or free phase product. The adjacent properties in which this work is planned, while not in the public right-of-way, are owned by the City of Oakland. However, this assessment work will include only temporary borings, hopefully avoiding insurance issues with the City of Oakland. Assuming that obtaining permissions and permits proceed smoothly, HerSchy anticipates installing the off-site borings in early 2007.

The operation of the soil vapor extraction system is monitored every few days by HerSchy staff working locally. Adjustments are made to optimally and economically remediate the site based on subsurface conditions. Individual extraction lines are opened or closed, as appropriate, based on concentrations so that only productive wells are used. Recently, water production from the system (from high water levels) approached 200 gallons per day. We have been closely monitoring the system, and have had to reduce the vacuum to the extraction wells, possibly decreasing the air flow slightly, but likely reducing the water production greatly. In addition, HerSchy Environmental, Inc. will begin installation of a catalytic oxidizer, which will allow the oxidizer to operate at much lower temperatures, reducing propane costs.

If you have any questions or need additional information, please contact the undersigned at the letterhead address or at (559) 641-7320.

With best regards,
HerSchy Environmental, Inc.

Scott Jackson
Professional Geologist #7948

pc: Mr. Pritpaul Sappal
Mr. Hernan Gomez, Oakland Fire Services Agency
Mrs. Susan M. Torrence, Deputy District Attorney
Ms. Irma C. Salinas, Bay Area Air Quality Management District

Groundwater Analytical Results

Well No	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Methanol	Ethanol
2/17/2005														
MW-1R	530	3.4	ND	ND	2.6	1,000	ND	ND	100	ND	NA	NA	ND	ND
MW-2	18,000	2,100	31	800	680	20,000	ND	ND	1,000	ND	NA	NA	ND	ND
MW-3	130,000	2,100	420	210	730	290,000	ND	ND	11,000	ND	NA	NA	ND	ND
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	51	0.74	ND	0.94	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	5,600	190	34	41	110	10,000	ND	ND	780	2,000	ND	ND	ND	ND
EX-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/24 & 26/2005														
MW-1R	NA	NA	NA	NA	NA	NA	ND	ND	610	ND	ND	ND	NA	NA
MW-2	22,000	3,200	52	1,400	1,700	16,000	ND	ND	NS	NS	ND	ND	NS	NS
MW-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	1	ND	ND	NS	NS	ND	ND	NS	NS
MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EX-1	NA	NA	NA	NA	NA	NA	ND	ND	NS	NS	NS	NS	NS	NS
8/15 & 17/2005														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	2,500	64	240	61	210	2,300	ND	ND	210	ND	ND	ND	NA	NA
MW-2	2,000	66	ND	46	47	2,400	ND	ND	95	880	ND	ND	NA	NA
MW-3	110,000	1,500	ND	ND	ND	260,000	ND	ND	21,000	25,000	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	ND	ND	ND	ND	ND	0.88	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	1,800	27	ND	6	23	3,800	ND	ND	300	3,500	ND	ND	NA	NA
11/17/2005														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	2,500	66	290	75	290	1,300	ND	ND	110	1,600	ND	ND	NA	NA
MW-2	760	19	0.64	15	13	1,000	ND	ND	26	810	ND	ND	NA	NA
MW-3	200,000	2,400	ND	ND	ND	580,000	ND	ND	24,000	49,000	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	71	0.81	ND	1.1	ND	1.4	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	1,100	30	ND	4.4	9	2,400	ND	ND	190	9,500	ND	ND	NA	NA

Groundwater Analytical Results

Well No	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Methanol	Ethanol
2/8/2006														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	**3,300**	**100**	**310**	**86**	**470**	**1,400**	ND	ND	**130**	**1,400**	ND	ND	NA	NA
MW-2	**10,000**	**1,500**	**7.6**	**660**	**380**	**4,300**	ND	ND	**120**	**2,800**	ND	ND	NA	NA
MW-3	**470,000**	**3,800**	**660**	ND	**790**	**490,000**	ND	ND	**26,000**	**49,000**	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	**50**	ND	ND	ND	ND	**1**	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	**3,600**	**220**	**43**	**66**	**160**	**2,700**	ND	ND	**180**	**7,800**	ND	ND	NA	NA
5/5/2006														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	**3,400**	**170**	**350**	**97**	**550**	**1,100**	ND	ND	**100**	**2,400**	ND	ND	NA	NA
MW-2	**15,000**	**1,800**	ND	**1,200**	**1,200**	**5,800**	ND	ND	**150**	**4,300**	ND	ND	NA	NA
MW-3	**400,000**	**3,300**	ND	ND	ND	**590,000**	ND	ND	**21,000**	**86,000**	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	ND	ND	ND	ND	ND	**0.93**	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	**1,600**	**130**	**21**	**37**	**65**	**1,400**	ND	ND	**53**	**3,100**	ND	ND	NA	NA

HerSchy Environmental, Inc.

Environmental Consulting and Remediation

P. O. Box 229
Bass Lake, California 93604-0229
Tel. (559) 641-7320, Fax (559) 641-7340

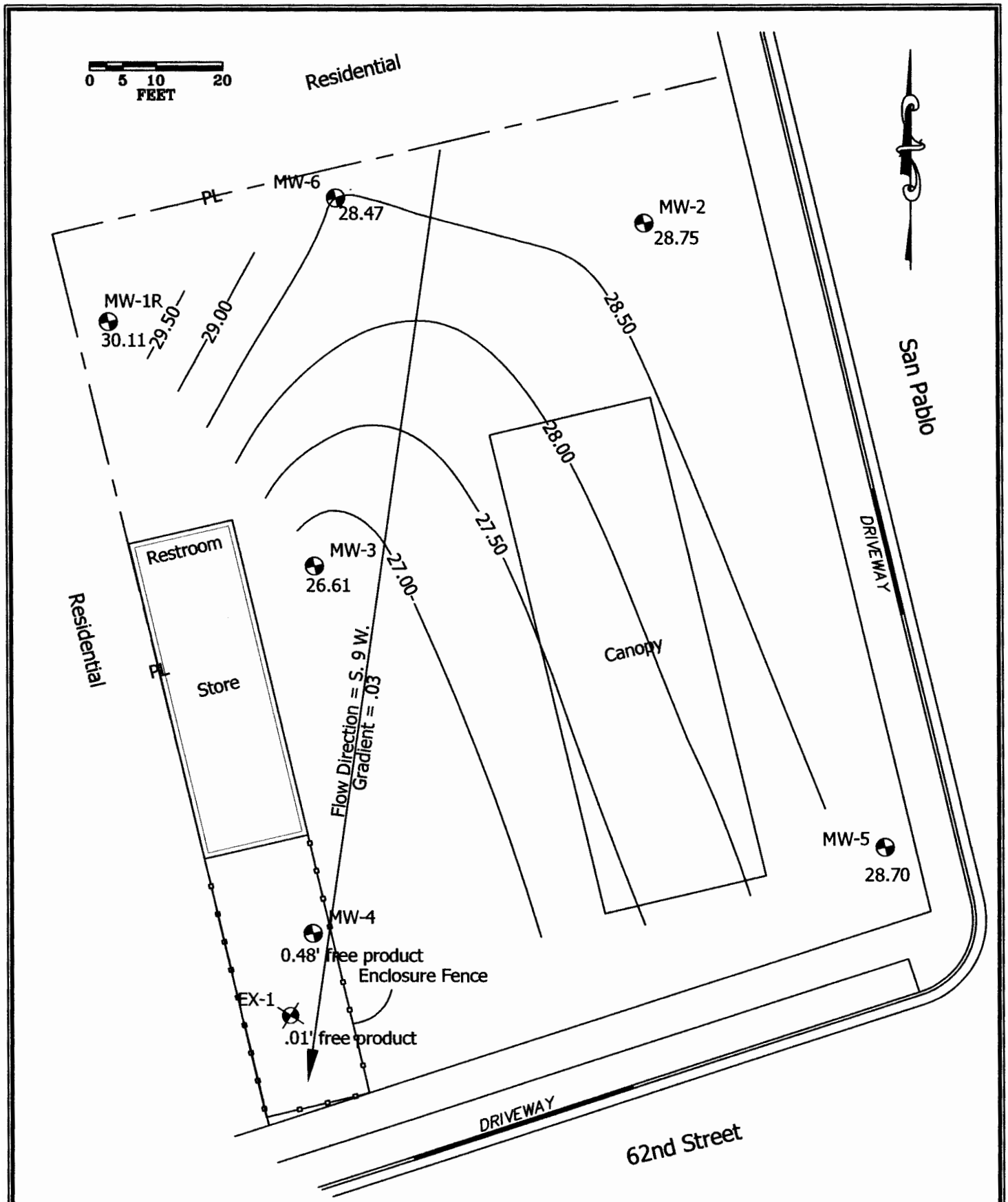
SITE LOCATION MAP

ALASKA GASOLINE COMPANY

6211 San Pablo Avenue, Oakland, California

DATE:	August 2005
FILE NO.:	A51.01
DRAWN BY:	WEA

FIGURE 1



HerSchy Environmental, Inc. Environmental Consulting and Remediation P. O. Box 229 Bass Lake, California 93604-0229 Tel. (559) 641-7320, Fax (559) 641-7340	GROUNDWATER CONDITIONS December 2006 ALASKA GASOLINE COMPANY 6211 San Pablo Avenue, Oakland, California	DATE: December 2006 FILE NO.: A51-01 DRAWN BY: SAJ	FIGURE 2

APPENDIX A

GROUNDWATER FIELD

SAMPLING DATA SHEETS

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: ~~WEST~~ Sampled by: ~~WEST~~

Sample ID: EX-1 Type: Groundwater X Surface Water _____ Other _____

Casing Diameter (inches): 2 _____ 3 _____ 4 X 5 _____ 6 _____ Other _____

Casing Elevation (feet/MSL): _____ Volume in Casing (gal.): _____

Depth of Well (feet): _____ Calculate Purge Volume (gal.): _____

Depth to Water (feet): 4.96 Actual Purge Volume (gal.): _____

Date Purged: _____ Date Sampled: _____

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY

N/A

Sheen Y/N?: _____ Odor: _____

Purging Equipment: _____

Sampling Equipment: _____

Remarks: GRAB SAMPLE @ BAILER. FOUND 1/16" FLOATING PRODUCT

12-01-06

Sampler's Signature: John S. Wood

/Water Sample Sheet.wpd

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: WEST Sampled by: WEST

Sample ID: MW-1R Type: Groundwater X Surface Water ____ Other ____

Casing Diameter (inches): 2 X 3 ____ 4 ____ 5 ____ 6 ____ Other ____

Casing Elevation (feet/MSL): 36.67 Volume in Casing (gal.): 2.7

Depth of Well (feet): 23.40 Calculate Purge Volume (gal.): 8.2

Depth to Water (feet): 6.56 Actual Purge Volume (gal.): 8.2+

Date Purged: 12-01-06 Date Sampled: 12-01-06 0755

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
0740	-	7.78	412	60.5	Cloudy
0751	8.2	7.30	403	65.7	Cloudy

Sheen Y/N?: N Odor: NONE

Purging Equipment: WATERRA

Sampling Equipment: WATERRA

Remarks: ____

Sampler's Signature: John S. Wess

/Water Sample Sheet.wpd

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: WEST Sampled by: WEST

Sample ID: MW-2 Type: Groundwater X Surface Water ____ Other ____

Casing Diameter (inches): 2 X 3 ____ 4 ____ 5 ____ 6 ____ Other ____

Casing Elevation (feet/MSL): 36.33 Volume in Casing (gal.): 2.2

Depth of Well (feet): 20.90 Calculate Purge Volume (gal.): 6.5

Depth to Water (feet): 7.58 Actual Purge Volume (gal.): 6.5+

Date Purged: 12-01-06 Date Sampled: 12-01-06 0840

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
0827	~	6.62	775	67.1	Cloudy
0837	6.5	6.69	778	67.6	Cloudy

Sheen Y/N?: N Odor: PETROLEUM

Purging Equipment: WATERRA

Sampling Equipment: WATERRA

Remarks: ____

Sampler's Signature: John S. Wess

/Water Sample Sheet.wpd

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: WEST Sampled by: WEST

Sample ID: MW-3 Type: Groundwater X Surface Water ____ Other ____

Casing Diameter (inches): 2 X 3 ____ 4 ____ 5 ____ 6 ____ Other ____

Casing Elevation (feet/MSL): 33.12 Volume in Casing (gal.): 2.1

Depth of Well (feet): 21.20 Calculate Purge Volume (gal.): 6.2

Depth to Water (feet): 8.51 Actual Purge Volume (gal.): 6.2+

Date Purged: 12-01-06 Date Sampled: 12-01-06 0720

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
0707	✓	7.46	738	59.4	CLOUDY
0716	6.2	7.69	729	66.3	CLOUDY

Sheen Y/N?: N Odor: SLIGHT UNKNOWN ODOR

Purging Equipment: WATERRA

Sampling Equipment: WATERRA

Remarks: ____

Sampler's Signature: John L. Wells

/Water Sample Sheet.wpd

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: _____ Sampled by: _____

Sample ID: MW-4 Type: Groundwater X Surface Water _____ Other _____

Casing Diameter (inches): 2 X 3 _____ 4 X 5 _____ 6 _____ Other _____

Casing Elevation (feet/MSL): _____ Volume in Casing (gal.): _____

Depth of Well (feet): _____ Calculate Purge Volume (gal.): N/A

Depth to Water (feet): 5.95 Actual Purge Volume (gal.): _____

Date Purged: _____ Date Sampled: _____

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
		N			
		A			

Sheen Y/N?: _____ Odor: _____

Purging Equipment: _____

Sampling Equipment: _____

Remarks: 5.47 TOP OF PRODUCT 5.95 TO WATER LEVEL .48 FLOATING PRODUCT

12-01-06

Sampler's Signature: John S. West

/Water Sample Sheet.wpd

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: WEST Sampled by: WEST

Sample ID: MW-~~4~~5 Type: Groundwater X Surface Water ____ Other ____

Casing Diameter (inches): 2 X 3 ____ 4 ____ 5 ____ 6 ____ Other ____

Casing Elevation (feet/MSL): 35.17 Volume in Casing (gal.): 3.0

Depth of Well (feet): 24.90 Calculate Purge Volume (gal.): 9.0

Depth to Water (feet): 6.47 Actual Purge Volume (gal.): 9+

Date Purged: 12-01-06 Date Sampled: 12-01-06 0910

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
0855	✓	6.78	718	66.4	Cloudy
0905	9	6.73	670	66.9	Cloudy

Sheen Y/N?: N Odor: NONE

Purging Equipment: WATERRA

Sampling Equipment: WATERRA

Remarks: ____

Sampler's Signature: John L. West

/Water Sample Sheet.wpd

HerSchy Environmental

WATER SAMPLE FIELD DATA SHEET

Client Name: ALASKA GAS Location: OAKLAND

Purged By: WEST Sampled by: WEST

Sample ID: MW-6 Type: Groundwater X Surface Water ____ Other ____

Casing Diameter (inches): 2 X 3 ____ 4 ____ 5 ____ 6 ____ Other ____

Casing Elevation (feet/MSL): 36.07 Volume in Casing (gal.): 2.5

Depth of Well (feet): 23.10 Calculate Purge Volume (gal.): 7.6

Depth to Water (feet): 7.60 Actual Purge Volume (gal.): 7.6+

Date Purged: 12-01-06 Date Sampled: 12-01-06 of 23

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
0809	—	7.09	495	66.9	Cloudy
0820	7.6	6.80	530	66.6	Cloudy

Sheen Y/N?: N Odor: NONE

Purging Equipment: WATERRA

Sampling Equipment: WATERRA

Remarks: ____

Sampler's Signature: John S. West

/Water Sample Sheet.wpd

APPENDIX B

CERTIFIED ANALYTICAL REPORTS FOR GROUNDWATER

WITH CHAIN-OF-CUSTODY

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate # 2480
2333 Shuttle Drive, Atwater, CA 95301
Phone: (209) 384-2930
Fax: (209) 384-1507

HerSchy Environmental
P.O. Box 229
Bass Lake, CA 93604
Attn: Red Rafilainen

Client Project ID: Alaska Gas - Oakland
Reference Number: 9642
Sample Description: Water
Sample Prep/Analysis Method: EPA 5030/8015, 8020
Lab Numbers: 9642-1W, 2W, 3W, 4W, 5W

Sampled: 12-01-06
Received: 12-01-06
Extracted: 12-05-06
Analyzed: 12-05-06
Reported: 12-19-06

TOTAL PETROLEUM HYDROCARBONS - GASOLINE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT (ug/L)	SAMPLE ID MW-1R (ug/L)	SAMPLE ID MW-2 (ug/L)	SAMPLE ID MW-3 (ug/L)	SAMPLE ID MW-5 (ug/L)	SAMPLE ID MW-6 (ug/L)
MTBE	0.50	130	2200	220000	1.0	1800
BENZENE	0.50	1.7	1000	ND	0.69	ND
TOLUENE	0.50	6.3	ND	ND	ND	ND
ETHYL BENZENE	0.50	1.2	990	ND	ND	ND
TOTAL XYLENES	0.50	47	910	ND	0.52	ND
GASOLINE RANGE HYDROCARBONS	50	410	11000	270000*	ND	1700*
Report Limit Multiplication Factor:		1	100	2000	1	10
Report Limit Multiplication Factor for MTBE only:		100		10000		100

Gasoline value due to MTBE.

Surrogate % Recovery:	FID: 108% / PID: 102%	FID: 104% / PID: 98.0%	FID: 99.7% / PID: 102%	FID: 102% / PID: 102%	FID: 107% / PID: 108%
Instrument ID:	VAR-GC1	VAR-GC1	VAR-GC1	VAR-GC1	VAR-GC1

Analytes reported as ND were not detected or below the Practical Quantitation Limit
Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor

APPROVED BY: _____
James C. Phillips / Laboratory Director or
Clari J. Cone / Laboratory Manager

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate No. 2480
2333 Shuttle Drive, Atwater, CA 95301
Phone: (209) 384-2930
Fax: (209) 384-1507

HerSchy Environmental
P.O. Box 229
Bass Lake, CA 93604
Attn: Red Rafilainen

Client Project ID: Alaska Gas Oakland
Reference Number: 9642
Sample Description: Water
Sample Prep/Analysis Method: EPA 5030/8260
Lab Numbers: 9642-1W, 2W, 3W, 4W, 5W

Sampled: 12-01-06
Received: 12-01-06
Extracted: 12-06-06
Analyzed: 12-06-06
Reported: 12-19-06

GASOLINE ADDITIVES AND SOLVENTS BY EPA METHOD 8260 GC/MS

ANALYTE	REPORTING LIMIT (µg/L)	SAMPLE ID MW-1R (µg/L)	SAMPLE ID MW-2 (µg/L)	SAMPLE ID MW-3 (µg/L)	SAMPLE ID MW-5 (µg/L)	SAMPLE ID MW-6 (µg/L)
FUEL OXYGENATES						
Methyl tert-Butyl Ether (MTBE)	0.50	100	2100	280000	0.97	1700
Di-Isopropyl Ether (DIPE)	0.50	ND	ND	ND	ND	ND
Ethyl tert-Butyl Ether (ETBE)	0.50	ND	ND	ND	ND	ND
tert-Amyl Methyl Ether (TAME)	0.50	4.7	87	11000	ND	92
tert-Butanol (TBA)	20	100	2000	90000	ND	800
VOLATILE HALOCARBONS & AROMATICS						
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	0.50	ND	ND	ND	ND	ND
Report Limit Multiplication Factor:		1	10*	1000*	1	5*
Report Limit Multiplication Factor for MTBE:		50	100	10000		50

** Report limit raised due to matrix interference*

Surrogate Recoveries					
1,2-Dichloroethane-d4	90.2%	105%	87.6%	126%	103%
Toluene-d8	84.6%	97.7%	84.0%	111%	91.6%

Instrument ID: Varian 2100T
Analytes reported as ND were not detected or below the Practical Quantitation Limit
Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
(µg/L) = micrograms per liter or parts per billion (ppb)

APPROVED BY: _____
James C. Phillips / Laboratory Director or
Clari J. Cone / Laboratory Manager

APPENDIX C

HISTORIC GROUNDWATER QUALITY DATA

Groundwater Analytical Results

Well No	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Methanol	Ethanol
2/19-20/2004														
MW-1R	1,800	95	130	44	200	220	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	21,000	4,600	120	970	2,000	15,000	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	86,000	1,800	630	ND	ND	160,000	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	1.5	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	1,900	280	58	17	160	2,700	NA	NA	NA	NA	NA	NA	NA	NA
EX-1	120,000	9,500	4,300	840	3,900	150,000	NA	NA	NA	NA	NA	NA	NA	NA
5/24-25/2004														
MW-1R	210	12	10	5.4	23	79	ND	ND	2.1	37	ND	ND	ND	ND
MW-2	1,200	120	3	63	67	1,900	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	120,000	2,200	ND	180	220	400,000	ND	ND	15,000	ND	ND	ND	ND	ND
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EX-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/3/2004														
MW-1R	300	1.5	7.1	9.4	42	81	ND	ND	1.6	ND	ND	ND	ND	ND
MW-2	2,300	120	ND	51	70	1,700	ND	ND	26	ND	ND	ND	ND	ND
MW-3	180,000	2,000	ND	ND	ND	510,000	ND	ND	14,000	ND	ND	ND	ND	ND
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	100	6.4	ND	ND	0.79	4.2	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	1,100	27	ND	14	27	2,200	ND	ND	85	ND	ND	ND	ND	ND
EX-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/2/2004														
MW-1R	290	14	30	9.5	45	45	ND	ND	1.1	ND	NA	NA	ND	ND
MW-2	530	35	ND	17	30	520	ND	ND	28	100	NA	NA	ND	ND
MW-3	150,000	1,700	ND	ND	ND	350,000	ND	ND	31,000	140,000	NA	NA	ND	ND
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	ND	2.6	ND	1.7	0.87	1	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	1,800	32	ND	5.4	11	4,100	ND	ND	170	270	ND	ND	ND	ND
EX-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Groundwater Analytical Results

Well No	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Methanol	Ethanol
2/17/2005														
MW-1R	530	3.4	ND	ND	2.6	1,000	ND	ND	100	ND	NA	NA	ND	ND
MW-2	18,000	2,100	31	800	680	20,000	ND	ND	1,000	ND	NA	NA	ND	ND
MW-3	130,000	2,100	420	210	730	290,000	ND	ND	11,000	ND	NA	NA	ND	ND
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	51	0.74	ND	0.94	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	5,600	190	34	41	110	10,000	ND	ND	780	2,000	ND	ND	ND	ND
EX-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/24 & 26/2005														
MW-1R	NA	NA	NA	NA	NA	NA	ND	ND	610	ND	ND	ND	NA	NA
MW-2	22,000	3,200	52	1,400	1,700	16,000	ND	ND	NS	NS	ND	ND	NS	NS
MW-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	1	ND	ND	NS	NS	ND	ND	NS	NS
MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EX-1	NA	NA	NA	NA	NA	NA	ND	ND	NS	NS	NS	NS	NS	NS
8/15 & 17/2005														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	2,500	64	240	61	210	2,300	ND	ND	210	ND	ND	ND	NA	NA
MW-2	2,000	66	ND	46	47	2,400	ND	ND	95	880	ND	ND	NA	NA
MW-3	110,000	1,500	ND	ND	ND	260,000	ND	ND	21,000	25,000	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	ND	ND	ND	ND	ND	0.88	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	1,800	27	ND	6	23	3,800	ND	ND	300	3,500	ND	ND	NA	NA
11/17/2005														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	2,500	66	290	75	290	1,300	ND	ND	110	1,600	ND	ND	NA	NA
MW-2	760	19	0.64	15	13	1,000	ND	ND	26	810	ND	ND	NA	NA
MW-3	200,000	2,400	ND	ND	ND	580,000	ND	ND	24,000	49,000	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	71	0.81	ND	1.1	ND	1.4	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	1,100	30	ND	4.4	9	2,400	ND	ND	190	9,500	ND	ND	NA	NA

Groundwater Analytical Results

Well No	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Methanol	Ethanol
2/8/2006														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	**3,300**	**100**	**310**	**86**	**470**	**1,400**	ND	ND	**130**	**1,400**	ND	ND	NA	NA
MW-2	**10,000**	**1,500**	**7.6**	**660**	**380**	**4,300**	ND	ND	**120**	**2,800**	ND	ND	NA	NA
MW-3	**470,000**	**3,800**	**660**	ND	**790**	**490,000**	ND	ND	**26,000**	**49,000**	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	**50**	ND	ND	ND	ND	**1**	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	**3,600**	**220**	**43**	**66**	**160**	**2,700**	ND	ND	**180**	**7,800**	ND	ND	NA	NA
5/5/2006														
EX-1	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-1R	**3,400**	**170**	**350**	**97**	**550**	**1,100**	ND	ND	**100**	**2,400**	ND	ND	NA	NA
MW-2	**15,000**	**1,800**	ND	**1,200**	**1,200**	**5,800**	ND	ND	**150**	**4,300**	ND	ND	NA	NA
MW-3	**400,000**	**3,300**	ND	ND	ND	**590,000**	ND	ND	**21,000**	**86,000**	ND	ND	NA	NA
MW-4	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-5	ND	ND	ND	ND	ND	**0.93**	ND	ND	ND	ND	ND	ND	NA	NA
MW-6	**1,600**	**130**	**21**	**37**	**65**	**1,400**	ND	ND	**53**	**3,100**	ND	ND	NA	NA

APPNDIX D

RECORD OF AIR MONITORING AND

CERTIFIED ANLAYTICAL RESULTS FOR VAPOR

HerSchy Environmental, Inc.

Alaska Gas Data Sheet

Site Address: **6211 San Pablo Ave., Oakland, CA 94606**

Date	Total Hours	Hours	Vacuum (H20 col.)	Flow - pitot (#3) (scfm)	Flow - Manifold (scfm)	Dilution Valve (% open)	Recirc Valve (# turns open)	SVE Wells operating	Influent (ppm)	Effluent (ppm)	Water in Tank (ft)	Temp. Cont.(F)	Dilution Cont. (F)	High Limit (F)	Propane (% full)	Well Product Thickness (ft) EX-1	MW-4	other	Field person	Notes
9/7/2006	***System Down - No propane***																			
9/8/2006	--	--	--	78	--	5	3	limited initial set	--	--	0.00'	1650.0°	1527.0°	1526.0°	80.0%	--	--	N/A	LT	
9/12/2006	***HerSchy reportedly onsite doing work, including completion of all well hookups****																			
9/13/2006	***HerSchy reportedly onsite doing work, including completion of all well hookups****																			
9/14/2006	--	198	49	--	62	5	3	all	--	--	0.00'	1427.0°	1334.0°	1330.0°	85.0%	--	--	N/A	SR	
9/15/2006	--	223	49	--	58	5	3	all	--	--	0.00'	1424.0°	1332.0°	1332.0°	70.0%	--	--	N/A	SR	
9/16/2006	--	247	50	--	58	5	3	all	--	--	0.00'	1443.0°	1352.0°	1352.0°	52.0%	--	--	N/A	SR	
9/17/2006	--	270	49	--	58	5	3	all	--	--	0.00'	1446.0°	1351.0°	1350.0°	39.0%	--	--	N/A	SR	
9/18/2006	--	295	49	--	58	5	3	all	--	--	0.00'	1448.0°	1352.0°	1351.0°	80.0%	--	--	N/A	SR	
9/19/2006	--	315	46	58	--	5	3	all	--	--	0.00'	1437.0°	1345.0°	1345.0°	69.0%	--	--	N/A	LT	
9/22/2006	--	390	49	49	--	2	3	all	--	--	0.40'	1493.0°	1368.0°	1388.0°	70.0%	--	--	N/A	LT	
9/22/2006	--	391	49	51	--	2	3	all, except VE-1, 2, 3	--	--	0.40'	1517.0°	1407.0°	1406.0°	70.0%	--	--	N/A	LT	
9/25/2006	***HerSchy reportedly onsite doing product recovery from EX-1 and shutting off more vapor wells***																			
9/27/2006	--	511	42	43	--	2	3	only VE-3,4,5,7,10,13	--	--	0.40'	1614.0°	1488.0°	1487.0°	58.0%	0.01	--	N/A	SR	
10/3/2006	--	652	--	-	--	2	3	only VE-3,4,5,7,10,13	--	--	0.40'	1623.0°	1492.0°	1491.0°	5.0%	0.01	--	N/A	SR	
10/12/2006	***HerSchy reportedly onsite sometime during the week to activate sparge, repositioned poly tank***																			
10/19/2006	--	1037	30	37	--	2	3	3-4 wells open, ID not n	--	--	0.30'	1451.0°	1286.0°	1265.0°	40.0%	0.01	--	N/A	LT	
10/25/2006	--	1180	32	25	--	2	3	VE-3,4,5,7,10,13	--	--	0.20'	1692.0°	1541.0°	1540.0°	58.0%	--	0.04	N/A	HH	
10/27/2006	--	1222	30	16	--	2	3	VE-3,4,5,7,10,13	--	--	0.20'	1706.0°	1555.0°	1554.0°	80.0%	--	--	N/A	LT	
11/3/2006	--	1394	33	36	--	2	3	VE-3,4,5,7,10,13	--	--	0.20'	1520.0°	1400.0°	1400.0°	--	0.01	0.03	N/A	LT	
11/9/2006	--	1535	32	32	--	2	3	VE-3,4,5,7,10,13	--	--	0.20'	1505.0°	1392.0°	1392.0°	--	--	--	N/A	LT	
11/18/2006	Scheduled Eventas per notes found, unsure of completion (Red)																			
11/21/2006	1823.9	787.4		--	--	--	3 back from fully closed	VE-3,4,5,7,8,10,13	--	--	2.00'	1182.0°	1137.0°	1161.0°	61.0%	--	--	N/A	Red	System shutdown for maintenance
11/22/2006	1825.8	789.3	--	--	--	--	1.5 back from fully open	VE-2,4,5,7,9,11,12 * Conc. are found on SVE status log	24.8	1.6	2.00'	variable	variable	variable	61.0%	--	--	N/A	Red	System restarted with new configuration
11/23/2006	--	--	--	--	--	--	1.5 back from fully open	VE-2,4,5,7,9,11,12	50.8* * taken after recirc	0.0	2.00'	* system maintenance 1648.0°	1539.0°	1563.0°	37.0%	--	--	N/A	Red	
11/27/2006	1944.8	908.2	--	--	--	--	1.5 back from fully open	VE-1,3,4,5,8,12,13	29* * taken after recirc	0.0	2.00'	* Checking system status 1710.0°	1591.0°	1615.0°	80.0%	--	--	N/A	Red	
11/28/2006	1966.5	930	-- *2"-65cfm	73	--	--	0.5 back from fully open	VE-1,3,4,5,8,12,13	142.0	0.3	2.00'	1710.0°	1588.0°	1628.0°	56.0%	none	0.48	N/A	Red/John	
11/30/2006	2016.5	980	21 *2"-no read	61	--	--	0.5 back from fully open	VE-1,3,4,5,8,12,13	150.9	0.0	2.00'	1721.0°	1600.0°	1624.0°	64.0%	--	--	N/A	Red	
12/7/2006	2182.8	1146.3	25 *2"-noread	43	--	--	0.75 back from fully open	VE-2,3,4,5,9,12,13	119.0	0.0	2.00'	1724.0°	1598.0°	1624.0°	83.0%	--	--	N/A	Red	System down- no propane? Restarted, readings taken after somewhat stabilized
12/13/2006	2328.1	1291.5	not read --> system unstable adjustments			--	5.5 back from fully open	VE-1,3,4,5,7,9,12,13	N/A	N/A	2.00'	not read	not read	not read	52.0%	none	1.07'	N/A	Red	meet with Rob Larson re: sys operations and system inquiries
12/14/2006	2348.7	1312.2	--	45	42	--	5.5 back from fully open	VE-1,3,4,5,7,9,12,13	N/A	N/A	2.00'	1718.0°	1564.0°	1609.0°	64.0%	--	--	N/A	Red	Oscar and Mark Rodin onsite performing sys changes/mods
12/20/2006	2491.4	1454.8	--	46	--	--	6.75 back from fully open	VE-1,3,4,5,8,9,13	N/S	N/S	near full	1448.0°	1351.0°	1378.0°	57.0%	none	0.71'	N/A	Red	Tank full prod. A lot of H2O. Recirc. Valve opened fully to stem H20 prod.
12/22/2006	2536.6	1500	--	33	--	--	fully open	VE-1,3,4,5,8,9,13	N/S	N/S	full [emptied]	1638.0°	1495.0°	1518.0°	71.0%	--	--	N/A	Red	Quicksite visit to meet NRC
2nd reading				29								1595.0°	1470.0°	1495.0°		--	--	N/A	Red	
	*After tank was drained the recirc valve was closed back to 6.25 turns back from full to create proper vacuum, hopefully with less water production																			
12/26/2006	2633.1	1596.5	--	32	--	--	6.25 back from fully open	VE-1,3,4,5,8,9,13	N/S	N/S	near full [emptied]	1587.0°	1462.0°	1486.0°	8.0%	--	--	N/A	Red	
12/27/2006	2658.8	1622.2	--	30	--	95	6.25 back from fully open	VE-1,3,4,5,8,9,13	N/S	0.0	~200 gal	1537.0°	1413.0°	1440.0°	75.0%	--	0.75'	N/A	Red	Oscar installs 1500 gal knockout tank
2nd reading	2660.7	1624.1	--	45	52	95	5 back from fully open	VE-1,2,3,4,5,10,12,13	N/S	0.0	~200 gal	1460.0°	1352.0°	1375.0°	--	--	--	N/A	Red	

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate No. 2480

2333 Shuttle Drive, Atwater, CA 95301

(209) 384-2930
(209) 384-1507

HerSchy Environmental
P.O. Box 229
Bass Lake, CA 93604
Attn: Scott Jackson

Client Project ID: Alaska Gas - Oakland
Reference Number: 9442
Sample Description: Air
Sample Prep/Analysis Method: 5030/8015M, 8020
Lab Number: 9442-1V
Sample ID: Effluent

Sampled: 09-11-06
Received: 09-11-06
Analyzed: 09-12-06
Reported: 09-14-06

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	PQL* (ug/L)	PQL* (ppmv)	AMOUNT (ug/L)	AMOUNT (ppmv)
MTBE	0.50	0.14	ND	ND
BENZENE	0.50	0.16	ND	ND
TOLUENE	0.50	0.13	ND	ND
ETHYL BENZENE	0.50	0.11	ND	ND
TOTAL XYLENES	0.50	0.11	ND	ND
GASOLINE RANGE HYDROCARBONS	50	12	ND	ND
Dilution Factor:	1			

Instrument ID: VAR-GC1

*PQL - Practical Quantitation Limit
Analytes reported as ND were not detected or below the Practical Quantitation Limit

APPROVED BY: _____
James C. Phillips / Laboratory Director or
Clari J. Cone / Laboratory Manager

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate No. 2480

2333 Shuttle Drive, Atwater, CA 95301

(209) 384-2930
(209) 384-1507

HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604 Attn: Scott Jackson	Client Project ID: Alaska Gas - Oakland Reference Number: 9442 Sample Description: Air Sample Prep/Analysis Method: 5030/8015M, 8020 Lab Number: 9442-2V Sample ID: Influent	Sampled: 09-11-06 Received: 09-11-06 Analyzed: 09-12-06 Reported: 09-14-06

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	PQL* (ug/L)	PQL* (ppmv)	AMOUNT (ug/L)	AMOUNT (ppmv)
MTBE	25	6.9	820	230
BENZENE	25	7.8	170	54
TOLUENE	25	6.6	420	110
ETHYL BENZENE	25	5.7	84	19
TOTAL XYLENES	25	5.7	380	86
GASOLINE RANGE HYDROCARBONS	2500	610	13000	3300
Dilution Factor:	50			

Instrument ID: VAR-GC1

*PQL - Practical Quantitation Limit
Analytes reported as ND were not detected or below the Practical Quantitation Limit

APPROVED BY: _____

James C. Phillips / Laboratory Director or
Clari J. Cone / Laboratory Manager

CASTLE ANALYTICAL LABORATORY

CHAIN OF CUSTODY

Location: 2333 Shuttle Drive, Bldg 908/909, Atwater, CA 95301
Mailing Address: 2333 Shuttle Drive, Atwater, CA 95301
Phone: (209) 384-2930 - Fax: (209) 384-1507

Certificate No. 2480

PAGE_____OF_____

Customer: ALASKA GAS
Address: OAKLAND
City/State/ZIP:
Phone / FAX:
Proj # / P.O. #:
Report Attention: SCOTT
Sampler Signature:
Printed: JOE NELSON

Lab ID#	SAMPLE ID	DATE	TIME	DESCRIPTION/LOCATION	SAMPLE TYPE (g) grab (c) composite (d) discrete	SAMPLE MATRIX (s) solid (l) liquid (o) other	BTEX/TPH-GAS	MTBE	TPH-DIESEL	TRPH 418.1M	Oxy's / EDB / DCA by 8260	8260				Electronic Deliverables (EDF)	NUMBER OF CONTAINERS	OBSERVATIONS/REMARKS
24482-1V	EFFLUENT	9-11-06	1215		G	O	X	X									1	
-2V	INFLUENT	9-11-06	1223		1	1	X	X									1	

Method of Shipment:

Notes:

	Signature	Printed Name	Date	Time	Company Name
Relinquished by:		JOE NELSON	9-11-06		HERSCHY
Received by:		SCOTT FOSTER	9-11-06	4:20	CASTLE
Relinquished by:					
Received by:					
Relinquished by:					
Received by:					

Total number of containers submitted to the laboratory

Note: All special requests (e.g. quick turn times) must be cleared through authorized laboratory personnel .

RESULTS DUE :_____

☐ VERBAL ☐ WRITTEN

KIFF Analytical LLC

Report Number : 52882
Date : 10/25/2006

Henry Hurkmans
Blue Rock Environmental, Inc.
1169 Chess Drive Suite C
Foster City, CA 94404

Subject : 2 Vapor Samples
Project Name : Alaska Gas
Project Number : FR-3
P.O. Number : FR-3101906

Dear Mr. Hurkmans,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 52882
Date : 10/25/2006

Project Name : **Alaska Gas**
Project Number : **FR-3**

Sample : **influent** Matrix : Air Lab Number : 52882-01

Sample Date :10/19/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Toluene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Ethylbenzene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Total Xylenes	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Methyl-t-butyl ether (MTBE)	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Benzene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Toluene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Ethylbenzene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Total Xylenes (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Methyl-t-butyl ether (in ppmv)	**< 0.10**	0.10	ppmv	EPA 8260B	10/20/2006
TPH as Gasoline	**< 20**	20	mg/m3	EPA 8260B	10/20/2006
TPH as Gasoline (in ppmv)	**< 5.0**	5.0	ppmv	EPA 8260B	10/20/2006
Toluene - d8 (Surr)	96.9		% Recovery	EPA 8260B	10/20/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	10/20/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 52882
Date : 10/25/2006

Project Name : **Alaska Gas**
Project Number : **FR-3**

Sample : **effluent** Matrix : Air Lab Number : 52882-02

Sample Date :10/19/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Toluene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Ethylbenzene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Total Xylenes	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Methyl-t-butyl ether (MTBE)	**< 0.20**	0.20	mg/m3	EPA 8260B	10/20/2006
Benzene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Toluene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Ethylbenzene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Total Xylenes (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/20/2006
Methyl-t-butyl ether (in ppmv)	**< 0.10**	0.10	ppmv	EPA 8260B	10/20/2006
TPH as Gasoline	**< 20**	20	mg/m3	EPA 8260B	10/20/2006
TPH as Gasoline (in ppmv)	**< 5.0**	5.0	ppmv	EPA 8260B	10/20/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/20/2006
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/20/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 52882

Date : 10/25/2006

QC Report : Method Blank Data

Project Name : **Alaska Gas**

Project Number : **FR-3**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	10/19/2006
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	10/19/2006
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	10/19/2006
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	10/19/2006
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	10/19/2006
Benzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/19/2006
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/19/2006
Ethylbenzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/19/2006
Total Xylenes (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/19/2006
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	ppmv	EPA 8260B	10/19/2006
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	10/19/2006
TPH as Gasoline (in ppmv)	< 5.0	5.0	ppmv	EPA 8260B	10/19/2006
Toluene - d8 (Surr)	96.4		%	EPA 8260B	10/19/2006
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	10/19/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 52882

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Henry Hurfmans

Company / Address: Blue Rock Env., Inc. 1169 Chess Dr., Ste. C, Foster City, CA

Phone #: 650-522-9292 Fax #: 650-522-9259

Project #: ER-3 P.O. #: FR-3101906

Project Name: Alaska Gas

Project Address: 6211 San Pablo Ave Oakland, CA

California EDF Report? ☐ Yes ☒ No

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address): henry@bluerockenv.com

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	Dark	Matrix: Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	TAT	For Lab Use Only
influent	10/19/06	1645					1				X			X		X	X	X												01
effluent	10/19/06	1642					1				X			X		X	X	X												02

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
	10/20/06	0940	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	102006	1254	Ron McLee Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 53018
Date : 11/2/2006

Henry Hurkmans
Blue Rock Environmental, Inc.
1169 Chess Drive Suite C
Foster City, CA 94404

Subject : 2 Vapor Samples
Project Name : Alaska Gas, Oakland
Project Number : FR-3
P.O. Number : FR-3 102706

Dear Mr. Hurkmans,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Distribution: White - Client
Rev. 05/1/05

KIFF Analytical LLC

Report Number : 53018
Date : 11/2/2006

Project Name : **Alaska Gas, Oakland**
Project Number : **FR-3**

Sample : **Influent** Matrix : Air Lab Number : 53018-01
Sample Date :10/27/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**8.8**	0.20	mg/m3	EPA 8260B	10/28/2006
Toluene	**24**	0.20	mg/m3	EPA 8260B	10/28/2006
Ethylbenzene	**4.9**	0.20	mg/m3	EPA 8260B	10/28/2006
Total Xylenes	**120**	0.25	mg/m3	EPA 8260B	10/30/2006
Methyl-t-butyl ether (MTBE)	**150**	0.25	mg/m3	EPA 8260B	10/30/2006
Benzene (in ppmv)	**2.7**	0.050	ppmv	EPA 8260B	10/28/2006
Toluene (in ppmv)	**6.3**	0.050	ppmv	EPA 8260B	10/28/2006
Ethylbenzene (in ppmv)	**1.1**	0.050	ppmv	EPA 8260B	10/28/2006
Total Xylenes (in ppmv)	**28**	0.060	ppmv	EPA 8260B	10/30/2006
Methyl-t-butyl ether (in ppmv)	**40**	0.10	ppmv	EPA 8260B	10/30/2006
TPH as Gasoline	**2100**	25	mg/m3	EPA 8260B	10/30/2006
TPH as Gasoline (in ppmv)	**530**	7.0	ppmv	EPA 8260B	10/30/2006
Toluene - d8 (Surr)	92.1		% Recovery	EPA 8260B	10/30/2006
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	10/30/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 53018
Date : 11/2/2006

Project Name : **Alaska Gas, Oakland**
Project Number : **FR-3**

Sample : **Effluent** Matrix : Air Lab Number : 53018-02

Sample Date :10/27/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/28/2006
Toluene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/28/2006
Ethylbenzene	**< 0.20**	0.20	mg/m3	EPA 8260B	10/28/2006
Total Xylenes	**< 0.20**	0.20	mg/m3	EPA 8260B	10/28/2006
Methyl-t-butyl ether (MTBE)	**< 0.20**	0.20	mg/m3	EPA 8260B	10/28/2006
Benzene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/28/2006
Toluene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/28/2006
Ethylbenzene (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/28/2006
Total Xylenes (in ppmv)	**< 0.050**	0.050	ppmv	EPA 8260B	10/28/2006
Methyl-t-butyl ether (in ppmv)	**< 0.10**	0.10	ppmv	EPA 8260B	10/28/2006
TPH as Gasoline	**< 20**	20	mg/m3	EPA 8260B	10/28/2006
TPH as Gasoline (in ppmv)	**< 5.0**	5.0	ppmv	EPA 8260B	10/28/2006
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	10/28/2006
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	10/28/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 53018

Date : 11/2/2006

QC Report : Method Blank Data

Project Name : **Alaska Gas, Oakland**

Project Number : **FR-3**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	10/28/2006
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	10/28/2006
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	10/28/2006
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	10/28/2006
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	10/28/2006
Benzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/28/2006
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/28/2006
Ethylbenzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/28/2006
Total Xylenes (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	10/28/2006
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	ppmv	EPA 8260B	10/28/2006
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	10/28/2006
TPH as Gasoline (in ppmv)	< 5.0	5.0	ppmv	EPA 8260B	10/28/2006
Toluene - d8 (Surr)	93.9		%	EPA 8260B	10/28/2006
4-Bromofluorobenzene (Surr)	109		%	EPA 8260B	10/28/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 53018

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Henry Hartsmans	California EDF Report? ☐ Yes ☒ No
Company / Address: Blue Rock Env, Inc. 1169 Chess Dr., Ste C., Foster City	Sampling Company Log Code:
Phone #: 650-522-9292 / Fax #: 650-522-9259	Global ID:
Project #: FR-3 / P.O. #: FR-3	EDF Deliverable To (Email Address):
Project Name: Alaska Gas	Sampler Signature:
Project Address: 6211 San Pablo Ave Oakland, CA	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Dark	Matrix: Water	Matrix: Soil	Matrix: Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)				TAT	For Lab Use Only
influent	10/27/06	1000					X				X			X		X	X	X														☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ 1 wk	01
effluent	10/27/06	0955					X				X			X		X	X	X															02

Relinquished by:	Date	Time	Received by:
	10/27/06	1200	
	102806	1125	Received by Laboratory: Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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WORK ORDER #: 0612158

Work Order Summary

CLIENT:	Mr. Reijo Ratilainen HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604	**BILL TO:**	Mr. Reijo Ratilainen HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604
PHONE:	559-641-7320	**P.O. #**	
FAX:		**PROJECT #**	A51-01 Alaska Gas
DATE RECEIVED:	12/07/2006	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	12/20/2006		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	EFFLUENT 1	Modified TO-3	Tedlar Bag
02A	EFFLUENT 2	Modified TO-3	Tedlar Bag
03A	INFLUENT 1	Modified TO-3	Tedlar Bag
03AA	INFLUENT 1 Duplicate	Modified TO-3	Tedlar Bag
04A	INFLUENT 2	Modified TO-3	Tedlar Bag
05A	Lab Blank	Modified TO-3	NA
06A	LCS	Modified TO-3	NA
06B	LCS	Modified TO-3	NA

CERTIFIED BY: _____ DATE: 12/20/06

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-3
HerSchy Environmental
Workorder# 0612158

Four 1 Liter Tedlar Bag samples were received on December 07, 2006. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. See the data sheets for the reporting limits for each compound.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Samples EFFLUENT 1, EFFLUENT 2, INFLUENT 1, INFLUENT 1 Duplicate and INFLUENT 2 were transferred from Tedlar bags into summa canisters to extend the hold time from 72 hours to 14 days. Canister pressurization resulted in a dilution factor which was applied to all analytical results.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.

E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: EFFLUENT 1

Lab ID#: 0612158-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.063	0.26	0.10	0.42

Client Sample ID: EFFLUENT 2

Lab ID#: 0612158-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.092	0.38	0.23	0.95

Client Sample ID: INFLUENT 1

Lab ID#: 0612158-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.10	0.32	3.7 M	12 M
Toluene	0.10	0.38	2.1	7.9
Ethyl Benzene	0.10	0.44	0.16	0.70
Total Xylenes	0.20	0.88	3.8	16
Methyl tert-butyl ether	0.10	0.36	22	79
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.5	10	280	1200
C2-C4 Hydrocarbons ref. to Gasoline	2.5	10	7.6	31

Client Sample ID: INFLUENT 1 Duplicate

Lab ID#: 0612158-03AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.10	0.32	3.7 M	12 M
Toluene	0.10	0.38	2.0	7.7
Ethyl Benzene	0.10	0.44	0.15	0.66
Total Xylenes	0.20	0.88	3.8	16
Methyl tert-butyl ether	0.10	0.36	22	78
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.5	10	280	1200
C2-C4 Hydrocarbons ref. to Gasoline	2.5	10	7.8	32

Client Sample ID: INFLUENT 2

Lab ID#: 0612158-04A

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: INFLUENT 2

Lab ID#: 0612158-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.11	0.34	3.8 M	12 M
Toluene	0.11	0.40	2.3	8.7
Ethyl Benzene	0.11	0.46	0.20	0.85
Total Xylenes	0.21	0.92	4.2	18
Methyl tert-butyl ether	0.11	0.38	20	73
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.6	11	280	1100
C2-C4 Hydrocarbons ref. to Gasoline	2.6	11	7.6	31

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Client Sample ID: EFFLUENT 1

Lab ID#: 0612158-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121609**	**Date of Collection:**	**12/7/06**
Dil. Factor:	**2.53**	**Date of Analysis:**	**12/16/06 02:40 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0081	Not Detected	Not Detected
Toluene	0.0025	0.0095	Not Detected	Not Detected
Ethyl Benzene	0.0025	0.011	Not Detected	Not Detected
Total Xylenes	0.0051	0.022	Not Detected	Not Detected
Methyl tert-butyl ether	0.0025	0.0091	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.063	0.26	0.10	0.42
C2-C4 Hydrocarbons ref. to Gasoline	0.063	0.26	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	117	75-125
Fluorobenzene (FID)	121	75-150

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Client Sample ID: EFFLUENT 2

Lab ID#: 0612158-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121610**	**Date of Collection:**	**12/7/06**
Dil. Factor:	**3.67**	**Date of Analysis:**	**12/16/06 03:22 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0037	0.012	Not Detected	Not Detected
Toluene	0.0037	0.014	Not Detected	Not Detected
Ethyl Benzene	0.0037	0.016	Not Detected	Not Detected
Total Xylenes	0.0073	0.032	Not Detected	Not Detected
Methyl tert-butyl ether	0.0037	0.013	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.092	0.38	0.23	0.95
C2-C4 Hydrocarbons ref. to Gasoline	0.092	0.38	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	91	75-125
Fluorobenzene (FID)	92	75-150

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Client Sample ID: INFLUENT 1

Lab ID#: 0612158-03A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121611**	**Date of Collection: 12/7/06**	
Dil. Factor:	**101**	**Date of Analysis: 12/16/06 03:49 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.10	0.32	3.7 M	12 M
Toluene	0.10	0.38	2.1	7.9
Ethyl Benzene	0.10	0.44	0.16	0.70
Total Xylenes	0.20	0.88	3.8	16
Methyl tert-butyl ether	0.10	0.36	22	79
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.5	10	280	1200
C2-C4 Hydrocarbons ref. to Gasoline	2.5	10	7.6	31

M = Reported value may be biased due to apparent matrix interferences.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	118	75-125
Fluorobenzene (FID)	125	75-150

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Client Sample ID: INFLUENT 1 Duplicate

Lab ID#: 0612158-03AA

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121612**	**Date of Collection: 12/7/06**	
Dil. Factor:	**101**	**Date of Analysis: 12/16/06 04:27 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.10	0.32	3.7 M	12 M
Toluene	0.10	0.38	2.0	7.7
Ethyl Benzene	0.10	0.44	0.15	0.66
Total Xylenes	0.20	0.88	3.8	16
Methyl tert-butyl ether	0.10	0.36	22	78
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.5	10	280	1200
C2-C4 Hydrocarbons ref. to Gasoline	2.5	10	7.8	32

M = Reported value may be biased due to apparent matrix interferences.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	114	75-125
Fluorobenzene (FID)	123	75-150

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Client Sample ID: INFLUENT 2

Lab ID#: 0612158-04A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121613**	**Date of Collection: 12/7/06**	
Dil. Factor:	**106**	**Date of Analysis: 12/16/06 04:54 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.11	0.34	3.8 M	12 M
Toluene	0.11	0.40	2.3	8.7
Ethyl Benzene	0.11	0.46	0.20	0.85
Total Xylenes	0.21	0.92	4.2	18
Methyl tert-butyl ether	0.11	0.38	20	73
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.6	11	280	1100
C2-C4 Hydrocarbons ref. to Gasoline	2.6	11	7.6	31

M = Reported value may be biased due to apparent matrix interferences.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	116	75-125
Fluorobenzene (FID)	125	75-150

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0612158-05A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/16/06 11:35 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0043	Not Detected	Not Detected
Total Xylenes	0.0020	0.0087	Not Detected	Not Detected
Methyl tert-butyl ether	0.0010	0.0036	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	116	75-125
Fluorobenzene (FID)	113	75-150

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Client Sample ID: LCS

Lab ID#: 0612158-06A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121616b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/16/06 06:46 PM**	

Compound	**%Recovery**
Benzene	88
Toluene	99
Ethyl Benzene	87
Total Xylenes	90
Methyl tert-butyl ether	96

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (PID)	116	75-125

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Client Sample ID: LCS

Lab ID#: 0612158-06B

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6121618**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/16/06 07:58 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	115	75-150

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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Project Manager REIJO RATILAINEN
Collected by: (Print and Sign) REIJO RATILAINEN
Company HerSchwyEnv. Email
Address PO Box 209 City BASS LAKE State CA Zip 93604
Phone (559) 760-0037 Fax (510) 724-8355

Project Info:
P.O. #
Project # AS1-01
Project Name ALASKA GAS

Turn Around Time:
☑ Normal
☐ Rush
specify

	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final
01A	EFFLUENT 1		12/7/06	13:32	TPHg, BTEX, MtBE		
02A	EFFLUENT 2		12/7/06	13:38	TPHg, BTEX, MTBE		
03A	INFLUENT 1		12/7/06	13:40	TPHg, BTEX, MTBE		
04A	INFLUENT 2		12/7/06	13:48	TPHg, BTEX, MTBE		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	12/7/06 3:45	ATL	12/7/06 1545
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Drop off | NA | NA | good

0612158

Form 1293 rev.11

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
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- Chain of Custody (copy).

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WORK ORDER #: 0612439

Work Order Summary

CLIENT:	Mr. Reijo Ratilainen HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604	**BILL TO:**	Mr. Reijo Ratilainen HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604
PHONE:	559-641-7320	**P.O. #**	Alaska Gas
FAX:		**PROJECT #**	
DATE RECEIVED:	12/20/2006	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	12/22/2006		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	Effluent 1	Modified TO-3	Tedlar Bag
02A	Effluent 2	Modified TO-3	Tedlar Bag
03A	Influent 1	Modified TO-3	Tedlar Bag
04A	Influent 2	Modified TO-3	Tedlar Bag
05A	Lab Blank	Modified TO-3	NA
06A	LCS	Modified TO-3	NA
06B	LCS	Modified TO-3	NA

CERTIFIED BY: Linda A. Truman DATE: 12/22/06

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-3
HerSchy Environmental
Workorder# 0612439

Four 1 Liter Tedlar Bag samples were received on December 20, 2006. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. See the data sheets for the reporting limits for each compound.

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: Effluent 1

Lab ID#: 0612439-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Toluene	0.0010	0.0038	0.021	0.078
Ethyl Benzene	0.0010	0.0043	0.0012	0.0051
Total Xylenes	0.0020	0.0087	0.0038	0.016
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	0.082	0.34

Client Sample ID: Effluent 2

Lab ID#: 0612439-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	0.0025	0.0079
Toluene	0.0010	0.0038	0.026	0.10
Ethyl Benzene	0.0010	0.0043	0.0014	0.0060
Total Xylenes	0.0020	0.0087	0.0068	0.030
Methyl tert-butyl ether	0.0010	0.0036	0.0011	0.0040
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	0.12	0.49
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.10	0.036	0.14

Client Sample ID: Iufluent 1

Lab ID#: 0612439-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.050	0.16	4.4 M	14 M
Toluene	0.050	0.19	1.4	5.4
Ethyl Benzene	0.050	0.22	0.14	0.63
Total Xylenes	0.10	0.43	3.9	17
Methyl tert-butyl ether	0.050	0.18	13	48
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	5.1	140	580
C2-C4 Hydrocarbons ref. to Gasoline	1.2	5.1	3.2	13

Client Sample ID: Influent 2

Lab ID#: 0612439-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.049	0.16	3.8 M	12 M
Toluene	0.049	0.18	1.2	4.6

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: Influent 2

Lab ID#: 0612439-04A

Ethyl Benzene	0.049	0.21	0.14	0.61
Total Xylenes	0.098	0.42	3.8	17
Methyl tert-butyl ether	0.049	0.18	12	42
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	5.0	120	490
C2-C4 Hydrocarbons ref. to Gasoline	1.2	5.0	2.8	12

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Effluent 1

Lab ID#: 0612439-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122109**	**Date of Collection: 12/20/06**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/06 12:34 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	0.021	0.078
Ethyl Benzene	0.0010	0.0043	0.0012	0.0051
Total Xylenes	0.0020	0.0087	0.0038	0.016
Methyl tert-butyl ether	0.0010	0.0036	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	0.082	0.34
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.10	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	100	75-125
Fluorobenzene (FID)	92	75-150

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Effluent 2

Lab ID#: 0612439-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122110**	**Date of Collection: 12/20/06**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/06 01:08 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	0.0025	0.0079
Toluene	0.0010	0.0038	0.026	0.10
Ethyl Benzene	0.0010	0.0043	0.0014	0.0060
Total Xylenes	0.0020	0.0087	0.0068	0.030
Methyl tert-butyl ether	0.0010	0.0036	0.0011	0.0040
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	0.12	0.49
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.10	0.036	0.14

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	105	75-125
Fluorobenzene (FID)	98	75-150

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent 1

Lab ID#: 0612439-03A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122113**	**Date of Collection: 12/20/06**	
Dil. Factor:	**50.0**	**Date of Analysis: 12/21/06 03:23 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.050	0.16	4.4 M	14 M
Toluene	0.050	0.19	1.4	5.4
Ethyl Benzene	0.050	0.22	0.14	0.63
Total Xylenes	0.10	0.43	3.9	17
Methyl tert-butyl ether	0.050	0.18	13	48
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	5.1	140	580
C2-C4 Hydrocarbons ref. to Gasoline	1.2	5.1	3.2	13

M = Reported value may be biased due to apparent matrix interferences.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	111	75-125
Fluorobenzene (FID)	115	75-150

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent 2

Lab ID#: 0612439-04A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122114**	**Date of Collection: 12/20/06**	
Dil. Factor:	**48.8**	**Date of Analysis: 12/21/06 04:04 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.049	0.16	3.8 M	12 M
Toluene	0.049	0.18	1.2	4.6
Ethyl Benzene	0.049	0.21	0.14	0.61
Total Xylenes	0.098	0.42	3.8	17
Methyl tert-butyl ether	0.049	0.18	12	42
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	5.0	120	490
C2-C4 Hydrocarbons ref. to Gasoline	1.2	5.0	2.8	12

M = Reported value may be biased due to apparent matrix interferences.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	111	75-125
Fluorobenzene (FID)	106	75-150

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0612439-05A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/06 09:17 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0043	Not Detected	Not Detected
Total Xylenes	0.0020	0.0087	Not Detected	Not Detected
Methyl tert-butyl ether	0.0010	0.0036	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	106	75-125
Fluorobenzene (FID)	98	75-150

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0612439-06A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122121b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/06 09:42 PM**	

Compound	%Recovery
Benzene	106
Toluene	110
Ethyl Benzene	103
Total Xylenes	90
Methyl tert-butyl ether	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	118	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0612439-06B

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**d122122**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/06 10:19 PM**	

Compound	**%Recovery**
TPH (C2+ Hydrocarbons) ref. to Gasoline	96

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	120	75-150

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Reijo Ratilainen
Collected by: (Print and Sign) Reijo Ratilainen
Company Herschy Env Email Redguy155@aol.com
Address 102-5 Tepphyr City Hercules State CA Zip 94547
Phone (559) 760-8037 Fax (510) 724-8355

Project Info:
P.O. # Alaska Gas
Project # ____
Project Name ____

Turn Around Time:
☐ Normal
☒ Rush ASAP
specify

Lab Use Only
Pressurized by: ____
Date: ____
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psig)
01A	Effluent 1		12/20/06	11:21 am	TO-3				
02A	Effluent 2		12/20/06	11:22 am	↓				
03A	Influent 1		12/20/06	11:25 am	↓				
04A	Influent 2		12/20/06	11:28 am	↓				

Relinquished by: (signature) Date/Time: 12/20/06 2:10p — Received by: (signature) Date/Time: AIR 12/21/06 2:10pm
Relinquished by: (signature) Date/Time — Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time — Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	drop off	NA	NA	good	Yes No None	0612439

Form 2S3 rev 1