erSchy Environmental

May 2, 2001 Project A51-01.02

MAY 07 2001

Mr. Don Hwang Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Ste. 250 Alameda, CA 94502-6577

Re: Results of Groundwater Monitoring and Work Plan for Additional Investigation, Alaska Gasoline Company, Oakland, California

Dear Mr. Hwang:

HerSchy Environmental is pleased to present the results of the most recent groundwater monitoring for the above-referenced site. The site is located at 6211 San Pablo Avenue, which is on the northwest corner of San Pablo Avenue and 62nd Street in Oakland, California (Figure 1). This document also includes a work plan for the drilling and installation of additional groundwater monitoring wells for the continuing hydrogeologic investigation at the site. This work was performed in response to the February 21, 2001 correspondence from your office.

PREVIOUS INVESTIGATIONS

Previous work included the drilling, sampling, and laboratory analysis of soil and groundwater from three soil borings (B-1 through B-3), as shown on Figure 2. Details of this investigation is contained in the April 22, 1999 *Results of Underground Storage Tank (UST) Site Assessment, Alaska Gasoline Company, Oakland, California*" prepared by HerSchy Environmental. Significant concentrations of gasoline constituents were encountered in soil during this initial investigation. Groundwater was encountered during this investigation at an approximate depth of ten feet and a groundwater sample collected from boring B-1. Boring locations are presented in Figure 2 and summarized in Table 1.

			Table	1		
<u>Labo</u>	ratory A	Analytical Re	sults, April 1	6, 1999, Alaska G	<u>asoline, Oal</u>	<u>cland</u>
Sample	TPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
B-1 @ 10'	440	2.3	4.8	7.4	31	3.7

P.O. Box 229 Bass Lake, CA 93604-0229 Phone: 559 • 641-7320 Fax: 559 • 641-7320

			Table (continu			
Sample	TPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
B-1 @ 15'	74	1.4	1.6	1.6	6.3	4.8
B-2 @ 10'	290	3.6	9.0	5.8	24	2.0
B-3 @ 10'	460	3.8	18	7.6	37	86
B - 1, GW	99,000	10,000	4,300	3,100	11,000	48,000

All results expressed in parts per million (ppm)

GW results expressed in parts per billion (ppb)

TPH = gasoline range total petroleum hydrocarbons

MTBE = methyl tertiary butyl ether

Based on the results of this initial investigation, five additional borings (B-4 through B-5) were drilled, sampled, and laboratory analysis performed on soil (Figure 2). Results of this work is contained in the July 19, 1999 "Results of Phase II Soil Investigation, Alaska Gasoline Company, Oakland, California" prepared by HerSchy Environmental. Laboratory analytical results of this work are summarized in Table 2 below:

			Labic	4		
Labo	ratory A	Analytical Re	sults, Alaska	Gasoline, Oaklar	nd, June 29,	<u>1999</u>
Sample	TPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
B-4 @ 5'	100	0.68	1.4	1.5	7.8	2.2
B-4 @ 10'	14	0.71	ND	0.23	0.11	9.3
B-5 @ 5'	5.7	0.068	0.0061	0.033	0.065	3.5
B-5 @ 10'	34	0.37	0.079	0.17	0.57	2.0
B-6 @ 5'	92	2.3	5.4	1.5	7.0	23
B-6 @ 10'	30	1.3	ND	ND	0,060	46
B-7 @ 5'	3.2	0.12	ND	0.073	0.14	0.023
B-7 @ 10'	280	0.57	0.56	2.8	14	ND
B-8 @ 5'	ND	ND	ND	ND	ND	ND
B-8 @ 10'	270	0.93	2.9	4.6	20	2.7

Table 2

All results presented in ppm.

ND = below detectable concentrations.

Based on the results of the soil investigations described above and the relatively shallow depth to groundwater, a preliminary hydrogeologic investigation was performed. This investigation consisted of the drilling and installation of three groundwater monitoring wells (MW-1 through MW-3). Details of this work are contained in the December 13, 1999 "Results of Drilling, Sampling, and Monitoring Well Installation, Alaska Gasoline Company, Oakland, California" prepared by HerSchy Environmental.

Soil samples were collected from each of the monitoring wells and submitted for laboratory analysis. Monitoring well locations are presented in Figure 3. Laboratory analytical results for soil are summarized in Table 3 below:

Laboratory	Analytic	al Results fo	Table 3 or Soil. Octo	ber, 1999, Alask	a Gasoline.	Oakland
Sample	TPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-1 @ 5'	1.1	0.14	ND	0.017	0.016	0.065
MW-1 @ 10'	570	4.6	18	10	47	10
MW-2 @ 5'	16	0.25	ND	0.26	0.30	1.2
MW-2 @ 10'	22	0.79	0.38	0.52	2.1	1.4
MW-3 @ 5'	2,200	11	63	35	170	48
MW-3 @ 10'	14	0.12	0.080	ND	0.087	28

All results presented in parts per million (ppm)

Drill cuttings and soil samples from each of the monitoring well locations were described in accordance with the Unified Soil Classification System by a California Registered Geologist. Soil consists entirely of silty clay (CL) from surface grade to an approximate depth of 20 feet in each boring. Groundwater conditions from this investigation and the most recent monitoring event are presented in subsequent sections of this report.

1.0 Methods of Investigation:

1.1 Groundwater Sampling Procedures:

The depth to groundwater was measured in each of the monitoring wells to the nearest 0.01 feet prior to initiating groundwater sampling activities. The depth to groundwater and the total depth of the wells were used to calculate the appropriate purge volume. Well purging and sampling was performed using a two-inch submersible pump. Physical characteristics (pH, electrical conductivity, and temperature) were measured and recorded prior to purging and again prior to sampling. Groundwater samples were collected in paired 40 milliliter vials. Groundwater samples were placed in a cooler chest with frozen gel packs ("blue ice") and maintained at or below four degrees Celsius until delivered to the laboratory. Samples were stored and transported under chain of custody documentation. In the absence of floating product, purge water was discharged an appropriate distance from the well head. Groundwater sampling field data sheets are presented in Appendix A.

1.2 Laboratory Analysis:

Groundwater samples were analyzed for gasoline-range total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl

tertiary butyl ether (MTBE). Samples were analyzed using EPA method 8015 for gasoline-range TPH, and EPA method 8020 for BTEX and MTBE. Certified analytical reports are presented in Appendix B.

2.0 Results of Investigation:

2.1 Groundwater Conditions:

Groundwater is present beneath the site at an average depth of 5.86 feet below the surveyed well elevations. The elevation of groundwater beneath the site averaged 28.60 feet above mean sea level at the time of sampling. The groundwater elevation has increased by approximately 2.25 feet since the November 7, 1999 sampling event. Groundwater gradient was S. 39 degrees W. at a gradient of .0092. Groundwater conditions are summarized in Table 4 and presented graphically in Figure 3.

]	fable 4	
<u>G</u> 1	roundwater Condition	ns, Alaska Gasoline, Oal	dand .
Well Number	Elevation	Depth to GW	GW Elevation
November 7, 1999:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
MW-1	34.70	8.53	26.17
MW-2	34,94	8.26	26.68
MW-3	33.74	7.55	26.19
Flow Direction $=$ S.	52 W; Gradient = $.00$)68	
March 8, 2001:			
MW-1	34.70	6.32	28.38
MW-2	34.94	5.89	29.05
MW-3	33.74	5.36	28.38
Flow Direction $=$ S.	39 W.; Gradient = .00)92	

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.

2.2 Groundwater Quality:

All of the site monitoring wells contained petroleum hydrocarbon-impacted groundwater. The highest overall concentrations are present in MW-3 which is directly down gradient relative to the location of the USTs. Relatively high concentrations of gasoline constituents are also present in the other two monitoring wells. The fuel oxygenate MTBE was detected at relatively high concentrations in all of the wells, particularly in down gradient well MW-3. Certified analytical reports are presented in Appendix B and are summarized in Table 5 on the following page:

			Lank S			
Laborato	o <mark>ry Analyt</mark>	ical Results	for Ground	water, Alaska G	<u>asoline, Oa</u>	kland
Well Number	TPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
November 7,	1999:					· ·
MW-1	5,700	170	59	22	85	20,000
MW-2	6,000	1,300	92	50	400	6,800
MW-3	43,000	860	70	ND	65	120,000
March 8, 200	1:					
MW-1	17,000	480	150	52	170	38,000
MW-2	41,000	8,100	870	2,000	4,100	26,000
MW-3	90,000	1,800	ND	ND	ND	210,000

Table 5

All results presented in parts per billion (ppb)

All of the site monitoring wells are impacted with gasoline constituents. The concentrations of gasoline constituents in groundwater appear to have increased since the last sampling event. This is likely due to the concurrent 2.25-foot rise in groundwater elevations that has brought more impacted soil into contact with groundwater. Based on site conditions, it appears that additional hydrogeologic investigation is warranted. A work plan for additional investigation is presented in the subsequent sections of this submittal.

3.0 Work Plan for Additional Investigation:

3.1 Drilling and Soil Sampling:

Drilling will be performed using a truck-mounted drill rig equipped with eightinch hollow stem augers. Augers will be steam cleaned prior to arriving on site. Two soil borings will be drilled to evaluate subsurface conditions which will then be used to install groundwater monitoring wells (MW-4 and MW-5). Monitoring wells MW-4 and MW-5 will be installed in down gradient and cross gradient locations on the property (Figure 4).

Soil samples will be collected using a California modified split spoon sampler equipped with brass liners. The samples will be collected at five and ten feet from each of the borings used for well installation. Samples will be collected by driving the sampler ahead of the drill bit. The sampler and liners will be cleaned between sampling events.

Soil samples will be field screened using a portable organic vapor analyzer (OVA) for the presence of volatile organic compounds (VOCs). All of the soil samples will be submitted to the laboratory for analysis.

Samples will be maintained in a cooler chest with frozen gel packs ("blue ice"), and maintained at a minimum of four degrees Celsius until delivered to the laboratory. A total of four soil samples will be submitted to the laboratory under chain of custody documentation. Soil samples and drill cuttings will be described in accordance with the Unified Soil Classification System by a California Registered Geologist. Drill cuttings will be contained in DOT-approved 55-gallon drums and stored on site as directed by the property owner. Soil sampling will be discontinued below a depth of ten feet.

3.2 Monitoring Well Installation, Development, and Sampling Procedures:

Well construction and annular materials will be installed through the hollow stem augers. Groundwater monitoring wells will be constructed with two-inch schedule 40 PVC well casing with screw joints. The screened intervals will be constructed with 20 feet of 0.020-inch factory slotted screen such that approximately 15 feet of the screened interval is below first encountered groundwater in each of the monitoring wells. Blank casing will be installed from the top of the screened interval to surface grade. The monitoring wells will be completed flush with surface grade in a traffic rated well cover with a locking well cap.

Annular materials will consist of #2/16 sand or coarser materials from the bottom of the boring to approximately two feet above the screened interval, followed by a minimum one-foot bentonite seal, followed by a sand-cement grout to the surface. Monitoring well elevations will be surveyed to the nearest .01 feet after installation. Depth to groundwater measurements will be made to the nearest .01 feet prior to sampling using an electric sounder.

The depth to groundwater will be measured in each of the monitoring wells to the nearest 0.01 feet prior to initiating monitoring well development and sampling activities. The depth to groundwater and the total depth of the existing wells will be used to calculate the appropriate purge volume. Well development, purging, and sampling will be performed using a two-inch submersible pump. Physical characteristics (pH, electrical conductivity, and temperature) will be measured and recorded prior to development and purging and again prior to sampling. Groundwater samples will be collected in paired 40 milliliter vials. Groundwater samples will be stored in a cooler chest with frozen gel packs ("blue ice") and maintained at or below four degrees Celsius until delivered to the laboratory. Samples will be stored and transported under chain of custody documentation. In the absence of floating product, development and purge water will be discharged an appropriate distance from the well head.

3.3 Laboratory Analysis:

Soil and groundwater samples will be analyzed for gasoline-range total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl

tertiary butyl ether (MTBE). Samples will be analyzed using EPA method 8015 for gasoline-range TPH, and EPA method 8020 for BTEX and MTBE.

3.4 <u>Report Preparation:</u>

A report will be prepared document the results of the hydrogeologic investigation. Included in the report will be borings logs and well construction details, groundwater sampling data sheets, and certified analytical reports as appendices. Data will be tabulated and discussed, with recommendations for additional investigation and proposed remedial measures will be presented as appropriate.

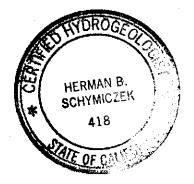
If you have any questions or need additional information, please contact me at the letterhead address or at (559) 641-7320.

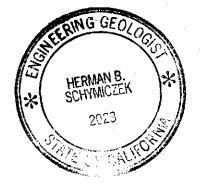
With best regards,

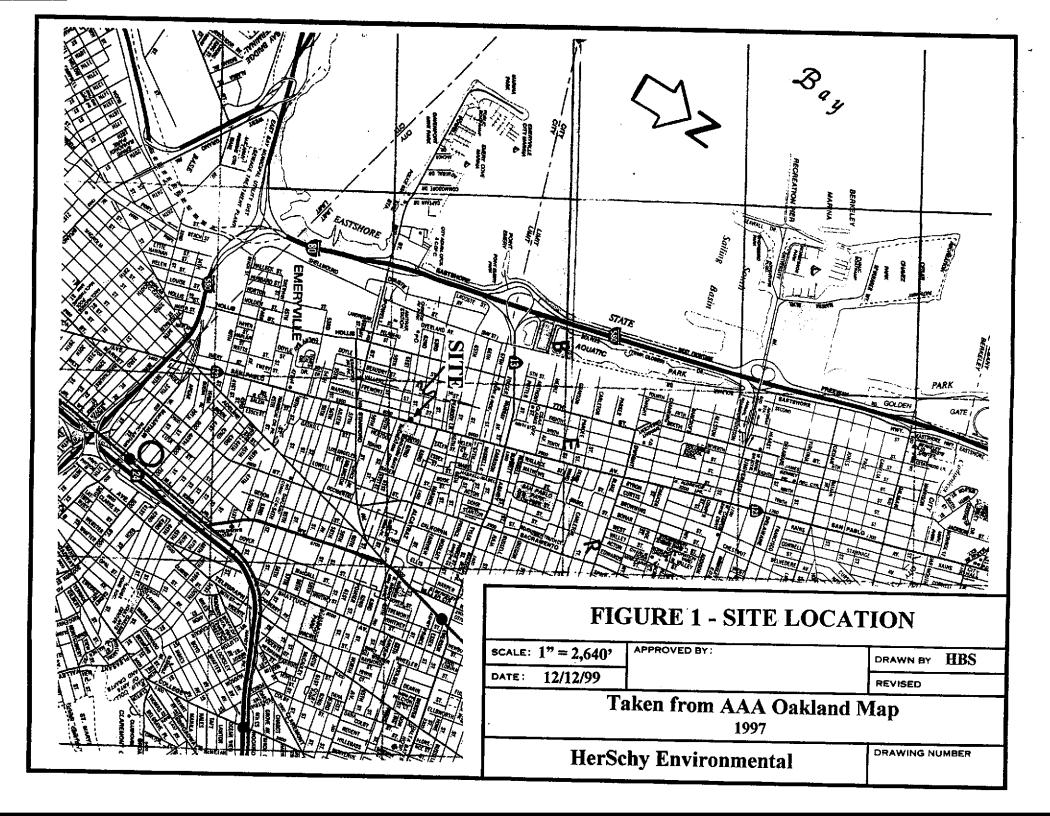
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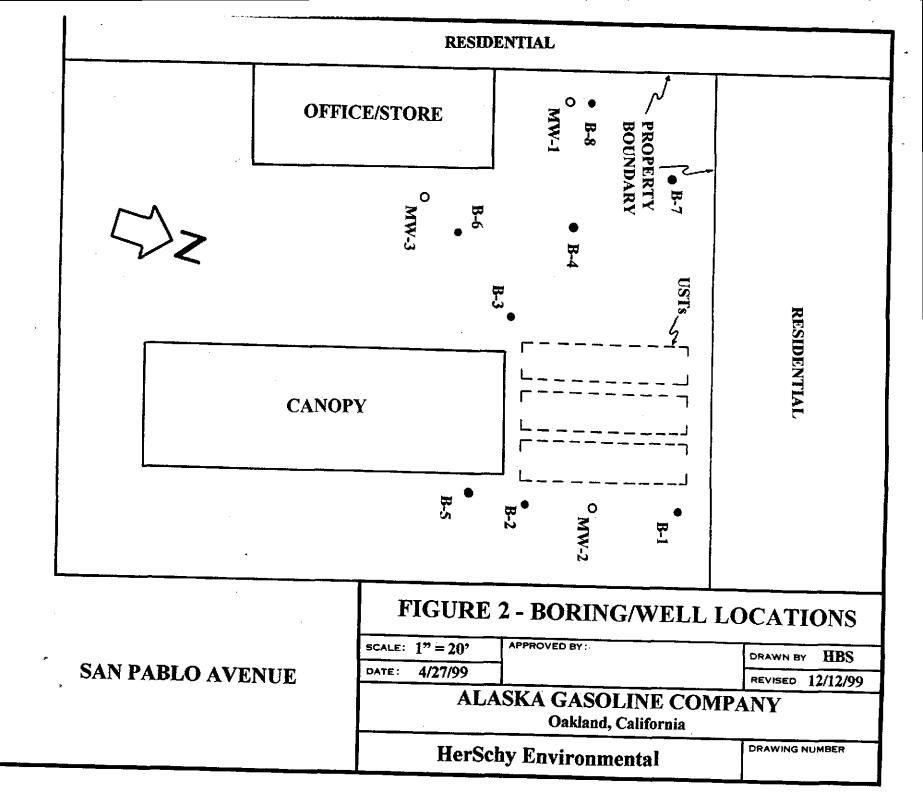
CHG #418, CEG #2023

pc: Mr. Pritpaul Sappal, Alaska Gasoline Company

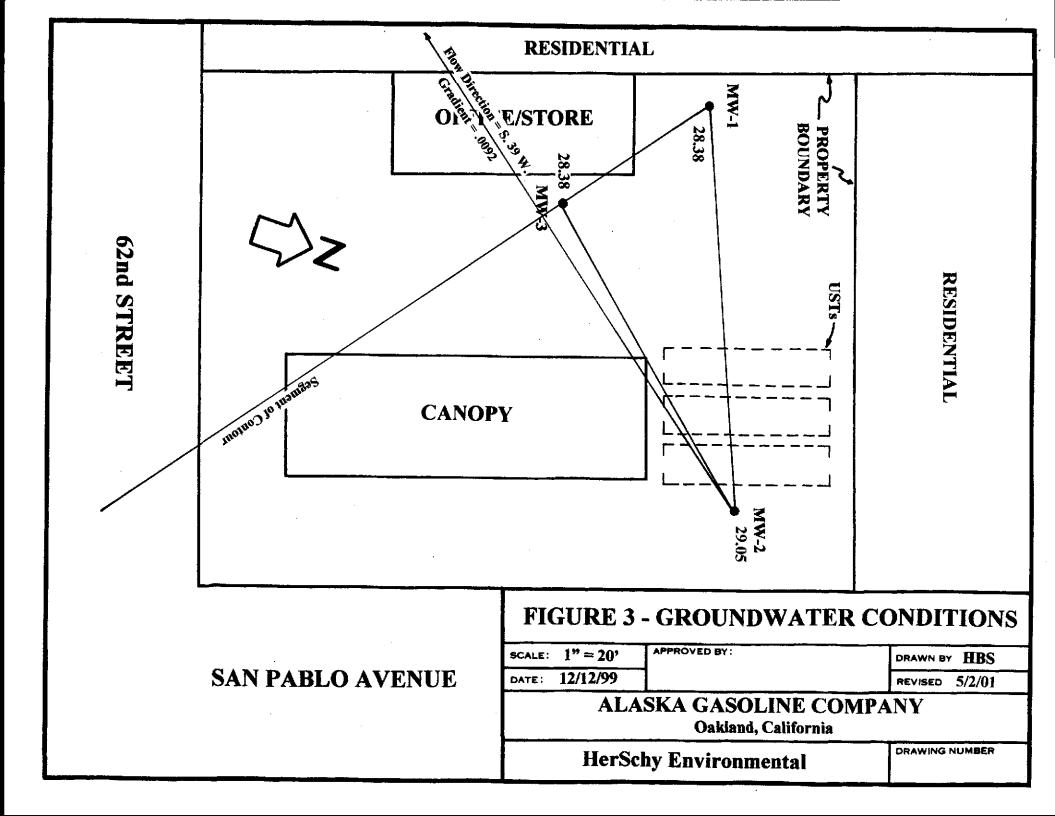


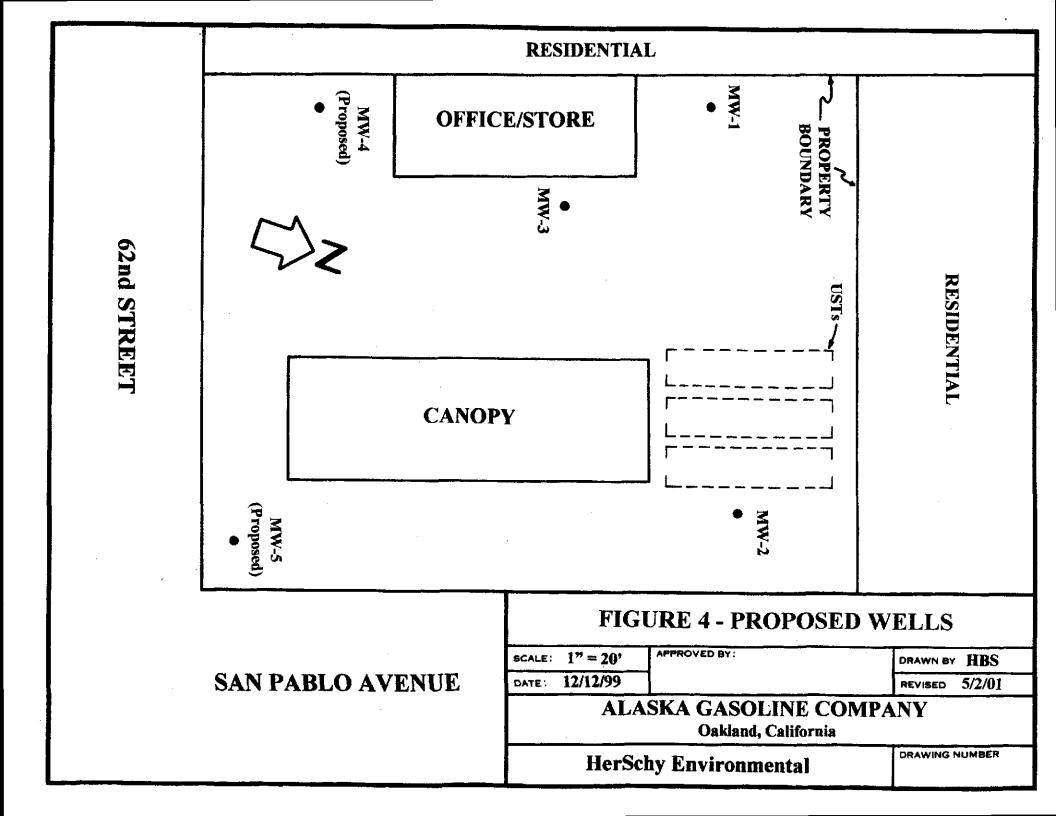






62nd STREET





APPENDIX A

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GROUNDWATER FIELD SAMPLING DATA SHEETS

HerSchy WATER SAMPLE FIELD DATA SHEET Environmental

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Client Name:	Alaska	Gasoline	Loc	ation: <u>Oak</u>	land
Purged By: 🖉	4. Schymi	czek .	Samj	pled By: <u>A. S</u>	land Schymiczek
					Other
Casing Diame	eter (inches): 2	<u>×</u> 3	45	6Othe	er
Casing Elevat	tion (feet/MSL)	34.70	7 Volum	e in Casing (g	al.): <u>23/</u>
Depth of Wel	l (feet): _ <u>20</u> ,	<u>50</u> Ca	llculate Purge	Volume (gal.)	9.24
Depth to Wate	er (feet):	<u>32</u> A	ctual Purge Vo	olume (gal.):	+10
Date Purged:	3-8-0	7/	Date Sampled	1: <u>3-8-0</u>	2/
TIME	VOLUME	pН	E. C.	TEMP.	TURBIDITY
1:50		7.60	725	64.4	cloudy
1:05	+10	7.58	_668	64.4	<u>cloudy</u> <u>clear</u>
·····					
	tions:			listinct	H25
Purging Equip	ment: <u>Pur</u>	Rer E.	5-60		
Sampling Equi	pment:		<i>(</i> 1		·
Remarks:					
	······································			· · · · · · · · · · · · · · · · · · ·	
Samplers Signa	ature: <u>Hel</u>	non le	kynizo	Ø	

HerSchy WATER SAMPLE FIELD DATA SHEET Environmental

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Client Name:	Alaska	Gasoline	Loo	cation: <u>Dick</u>	lord
Purged By:	H. Schy	wiczek	Sam	pled By: <u>//.</u>	Schymiczek
Sample ID: /	<u> ИШ-2</u> Ту	pe: Groundwa	uter $\underline{\chi}$ Sur	rface Water	/ Other
Casing Diame	eter (inches): 2	<u> X 3 </u>	45_	6Othe	er
Casing Elevat	ion (feet/MSL)	34.94	Volum	e in Casing (g	al.): <u>2.4/</u>
					. 9,64
Depth to Wate	er (feet): <u>5</u>	. <u>89</u> Ac	ctual Purge Vo	olume (gal.):	+10
Date Purged:	3-8-01	/	Date Sample	d: <u>3-8-</u>	-01
TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
2:20		7.54	881	64.1	clear
					clear
				<u></u>	
	<u> </u>		<u> </u>		
Other Observat			Odor:	Faint H,	25
Purging Equipn	nent: <u>Pur</u>	ger E	5-60		······
Sampling Equip	oment:	<u>11</u> 11), 		
Remarks:					
Samplers Signat	ture: <u>Hin</u>	ren be	mied	4	

HerSchy WATER SAMPLE FIELD DATA SHEET Environmental

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Client Name: <u>Alaska Gasoline</u> Location: <u>Oakland</u>
Purged By: <u>H. Schymiczek</u> Sampled By: <u>H. Schymiczek</u>
Sample ID: $MW-3$ Type: Groundwater X Surface Water Other
Casing Diameter (inches): $2 \times 3 = 4 = 5 = 6$ Other
Casing Elevation (feet/MSL): <u>33.74</u> Volume in Casing (gal.): <u>2.54</u>
Depth of Well (feet): <u>20.95</u> Calculate Purge Volume (gal.): <u>/0, /6</u>
Depth to Water (feet): <u>5.36</u> Actual Purge Volume (gal.): <u>+ //</u>
Date Purged: <u>3-8-01</u> Date Sampled: <u>3-8-01</u>
TIME VOLUME pH E.C. TEMP. TURBIDITY
1:25 - 7.90 1,289 65.2 cloudy
1:25 - 7.90 1,289 65.2 cloudy 1:35 + 11 7.67 786 65.0 clear
Other Observations: Odor: distinct HzS
Purging Equipment: Purger ES-60
Sampling Equipment:
Remarks:
Samplers Signature: Alermon behiming

APPENDIX B

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CERTIFIED ANALYTICAL REPORTS

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services Certificate #2079	2333 Shuttle Drive, Atwater, CA 95301	Phone: (209) 384-2930 Fax: (209) 384-1507
HerSchy Environmental	Client Project ID: Alaska Gasoline - Oakland	Sampled: 3-8-01
P.O. Box 229	Reference Number: 3588	Received: 3-9-01
Bass Lake, CA 93604	Sample Description: Water	Extracted: 3-14-01
Attn: Herman Schymiczek	Sample Prep/Analysis Method: EPA 5030/8015M, 8020	Analyzed: 3-14-01
	Lab Numbers: 3588-1W, 2W, 3W	Reported: 3-16-01

TOTAL PETROLEUM HYDROCARBONS - GASOLINE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT µg/L	SAMPLE ID MW-1 (µg/L)	Sample ID MW-2 (µg/L)	SAMPLE ID MW-3 (µg/L)
MTBE	0.50	38000	26000	210000
BENZENE	0.50	480	8100	1800
TOLUENE	0.50	150	870	ND
ETHYL BENZENE	0.50	52	2000	ND
TOTAL XYLENES	0.50	170	4100	ND
GASOLINE RANGE HYDROCARBONS	50	17000	41000	90000
Report Limit Multiplication	Factor:	100	200	500
Report Limit Multiplication	Factor MTBE only:	1000	1000	5000

Surrogate % Recovery:	FiD: 114% / PID: 112%	FID: 124% / PID: 117%	FID: 105% / PID: 104%
Instrument ID:	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

ANALYST: Clari J. Cone in ____APPROVED BY: lames C. Phillips Laboratory Director

CASTLE ANALYTICAL LABORATORY

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Environmental Testing Services Certificate #2079	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: Herman Schymiczek	Client Project ID: Alaska Gasoline - Oakland Reference Number: 3588 Matrix: Water Analyst: Jim Phillips	Method: EPA Instrument ID: Prepared: Analyzed: Reported:	5030/8015M,8020 : Var-GC1 3-14-01 3-14-01 3-16-01				

QUALITY CONTROL DATA REPORT

ANALYTE	Gasoline	MTBE	Benzene	Toluene	Ethyl Benzene	Total Xylenes
Spike Concentration:	110	2.08	1.28	7.72	1.84	9.24
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
CS Batch #:	VW-3141	VW-3141	VW-3141	VW-3141	VW-3141	VW-3141
.CS % Recovery: Surrogate Recovery:	96.6% 120%	85.1% 116%	117% 116%	108% 116%	111% 116%	109% 116%
Control Limits:	70-130 %	70-130 %	70-130 %	70-130 %	70-130 %	70-130 %
IS/MSD Batch #:	VW-3141	VW-3141	VW-3141	VW-3141	VW-3141	VW-3141
pike Concentration:	110	2.08	1.28	7.72	1.84	9.24
IS % Recovery: Surrogate Recovery:	84.0% 116%	113% 111%	116% 111%	106% 111%	107% 111%	105% 111%
ISD % Recovery: Surrogate Recovery:	89.2% 119%	109% 115%	116% 115%	107% 115%	108% 115%	106% 115%
elative % Difference:	5.48%	2.86%	0.0298%	0.900%	0.800%	0.977%
fethanol Blank : surrogate Recovery:	ND 111%	ND 117%	ND 117%	ND 117%	ND 117%	ND 117%

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

. Thelios ANALYST: APPROVED BY: Clari J. Cone James C. Phillips Laboratory Director

CASTLE ANALYTICAL LABORATORY

CHAIN OF CUSTODY

Location: 2333 Shuttle Drive, Bldg 908/909, Atwater, CA 95301 Mailing Address: 2333 Shuttle Drive, Atwater, CA 95301

Certificate No. 2079

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PAGE OF

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Phone: (209) 384-2930 - Fax: (209) 384-1507

Customer: <u>Alaska Gasoline</u> Address: <u>Dakland</u>					<u> </u>		REQUESTED ANALYSES Method of Shir									
Address:	Pal La	<u>ason</u>				<u> </u>								·		Method of Shipment:
City/State/ZIP:	2u 🗛 /a /i			ete et	× F										ERS	
Phone / FAX:		(S) 🗧	(0) o	AS	NA.		Σ		ł				CONTAINERS	Notes:		
Proj # / P.O. #:		щŝ	N Pa	Ŧ	MTBE	IESE	18.						NO			
Report Attention:		- <u>, </u>	SAMPLE MATRIX (s) solid (i) liquid (o) other	BTEX/TPH-GAS	Σ	TPH-DIESEL	TRPH 418.1M						5			
Sampler Signature: MAMANIATING			SAMPLE TYPE (g) grab (c) composite (d) discrete	SA olid	BTE		₽	Ĕ						ĒR		
Printed: Herman Schymiczek			S SA	(s) s										NUMBER OF		
Lab ID# SAMPLE ID	DATE	TIME	DESCRIPTION/LOCATION												z	
3588-14 MW-1	10/07		DESCRIPTION/LOCATION		-	-	5				+					OBSERVATIONS/REMARKS
		2:05		đ		스	X						\rightarrow			
	11	2:30		"	"	Щ	-4									
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				I											_	Total number of containers submitted to
	Signature		Printed Name	,	Dat		Tir			, Coi	npar	iy N	ame			the laboratory
Relinquished by:	Le Kymi	call_	Herman Schymicz	<u>eek</u>	3/9/	61	1::	35	Hê	r Sel	VE	wi	VAM	ental	Not	e: All special requests (e.g. quick
Received by:	$\Delta <$	2														times) must be cleared through norized laboratory personnel .
Relinquished by:															ioneou aboratory personner.	
Received by:																
Relinquished by:	$\int \rho$														RES	SULTS DUE :
Received by: (law)	Lone		Clari Scone		3/9/	21	$q_{:2}$	35	\overline{C}	ustle	es F	na	4.15	· D	:	
						الحد		<u>لى ت</u>					7.2	<u></u>		