March 18, 2004 Project A51-01.04

Alemeda County
MAR 2 3 2004

Envionnental Heath

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

Re: Results of February, 2004 Quarterly Groundwater Monitoring and Interim Remedial Action Related to Underground Storage Tank (UST) Removal Activities, Alaska Gasoline Company, Oakland, California, Case #RO0000127

Dear Mr. Chan:

HerSchy Environmental is pleased to present the results of the most recent quarterly groundwater monitoring event and interim remedial action performed in conjunction with UST removal activities 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, Alameda County, California (Figure 1). Previous work includes the drilling, sampling, and laboratory analysis of soil and groundwater. Details of this investigation are contained in the April 22, 1999 report titled, "Results of Underground Storage Tank (UST) Site Assessment, Alaska Gasoline Company, Oakland, California", prepared by HerSchy Environmental. The interim remedial action (IRA) performed in conjunction with tank removal activities was authorized in correspondence from your office dated December 29, 2003.

METHODS OF INVESTIGATION

Groundwater Sampling Procedures:

The depth to groundwater in each well was measured to the nearest 0.01 feet using an electric sounder prior to initiating groundwater sampling activities. The groundwater elevation was determined for each well by subtracting the depth to groundwater from the surveyed well elevation. The depth to groundwater, total depth of the well, and the well diameter were used to calculate the volume of groundwater within the well casing. At least three casing volumes were purged from each well prior to collecting a groundwater sample. Groundwater monitoring/remediation wells MW-1R and EX-1, which were recently installed, were developed using an electric "Monsoon" purger pump until the discharge water was relatively clear and free of sand. Upon development of MW-1R and EX-1, a sample was

collected with disposable bailers. 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 paired 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 for methyl tertiary butyl ether (MTBE). Laboratory analysis was performed using EPA method 8015M for TPHg, and EPA method 8020 for BTEX.

RESULTS OF INVESTIGATION

Groundwater Conditions:

Groundwater was present beneath the site at an average depth of 5.25 feet below the surveyed well elevations during the February 19-20, 2004 monitoring event. During this event, the elevation of groundwater averaged 28.76 feet above mean sea level. The groundwater elevation increased approximately 1.28 feet since the December, 2003 monitoring event. Due to the presence of floating product in MW-4, the groundwater elevation for this well was not used in determining the groundwater flow direction or gradient. Groundwater flow direction was South 42 degrees West at a gradient of .0154 during the December 9, 2003 monitoring event. Groundwater conditions are summarized in Table 1 and presented graphically in Figure 2.

Table 1
<u>Groundwater Conditions, Alaska Gasoline, Oakland</u>

Well Number	Elevation	Depth to GW	GW Elevation
November 17, 2001:			<u></u>
MW-1	34.70	8.09	26,61
MW-2	34.94	7.75	27.19
MW-3	33.74	7.18	26.56
MW-4	32.38	5.75	26.63
MW-5	33.75	6.22	27.53
MW-6	34.68	7.19	27.49
Flow Direction = $S. 50^{\circ}$	W.; Gradient = .009	1	

Table 1 (continued)

	(co	ntinuea)	
Well Number	Elevation	Depth to GW	GW Elevation
March 31, 2002:		· · · · · · · · · · · · · · · · · · ·	
MW-1	34.70	7.18	27.52
MW-2	34.94	6.68	28.26
MW-3	33,74	6,27	27.47
MW-4	32,38	5.40	26.98
MW-5	33.75	6.35	27.40
MW-6	34.68	6.58	28.10
Flow Direction = S. 2	6 W.; Gradient = .0108		
September 9, 2003:	····, - ···· - · · · · · · · · · · · · ·	•	
MW-1	34.70	8.54	26.16
MW-2	34.94	8.26	26.68
MW-3	33.74	7.52	26.22
MW-4	32.38	0.51'free product	the six and the sand
MW-5	33.75	7.08	26.67
MW-6	34.68	8.21	26.47
Flow Direction = $S.5$	60 W; Gradient = .0031		
December 9, 2003:	e. The second se		
MW-1	34.70	7.50	27.20
MW-2	34.94	7.20	27.74
MW-3	33.74	6.45	27.29
MW-4	32.38	0.25'free product	
MW-5	33.75	6.13	27.62
MW-6	34.68	7.11	27.57
Flow Direction = $S.5$	66 W; Gradient = .0075	i	
February 19-20, 200) 4:		
MW-1R	Not Surveyed	5.45	
MW-2	34,94	5.81	29.13
MW-3	33.74	5.56	28.18
MW-4	32.38	0.25'free product	
MW-5	33.75	5.11	28.64
MW-6	34.68	5.61	29.07
EX-1	Not Surveyed	3.96	
	12 W; Gradient = .0154		
	, , , , , , , , , , , , , , , , , , , ,		

Wells MW-1R and EX-1 have not been surveyed because of ongoing site construction. Once the current construction project is complete, all of the existing site wells will be surveyed by a licensed surveyor. Wells MW-1R and EX-1 were not used to determine groundwater flow direction and gradient for the February, 2004 sampling event. 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 summarized in Table 2 below:

Table 2
<u>Laboratory Analytical Results for Groundwater, Alaska Gasoline, Oakland</u>

Well No.	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
November :		~~~~~~	1 0140110		,	
MW-1	10,000	230	210	60	250	22,000
MW-2	18,000	3,700	180	610	640	16,000
MW-3	110,000	1,600	ND	ND	ND	300,000
MW-4	64,000	960	1,400	360	1,600	140,000
MW-5	210	15	12	11	23	4.8
MW- 6	3,500	160	260	95	420	1,500
March 31,	2002:					
MW-1	12,000	61	ND	ND	29	35,000
MW-2	32,000	6,500	270	1,700	2,700	19,000
MW-3	130,000	2,400	670	300	390	300,000
MW-4	78,000	4,400	4,700	690	2,700	150,000
MW-5	120	11	7.4	6.1	16	4.2
MW- 6	3,200	410	170	82	280	3,000
September	9, 2003:					
MW-1	19,000	ND	ND	ND	ND	50,000
MW-2	24,000	4,600	ND	1200	440	19,000
MW-3	190,000	1,600	ND	ND	ND	420,000
MW-4	NA NA	NA	NA	NA	NA	NA
MW-5	ND	1.5	ND	ND	ND	1.7
MW-6	800	49	ND	7.4	ND	1,700
December	9, 2003:					
MW-1	22,000	150	ND	ND	ND	66,000
MW-2	31,000	6,200	170	1,600	2,700	19,000
MW-3	170,000	2,000	ND	ND	ND	4,500,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	130	32	ND	2.6	0.57	5.0
MW-6	970	150	9.9	31	83	1,200

Table 2 (Continued)

Well No.	TPHg	Benzene	Toluene	Éthylbenzene	Xylenes	MTBE
February 1	9-20, 2004:					
MW-1R	1,800	95	. 130	44	200	220
MW-2	21,000	4,600	120	970	2,000	15,000
MW-3	86,000	1,800	630	ND	ND	160,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	1.5
MW-6	1,900	280	58	17	160	2,700
EX-1	120,000	9,500	4,300	840	3,900	150,000

All results presented in parts per billion (ppb)

NA= no analysis

ND= below detectable limits

All of the on-site monitoring wells are impacted with gasoline constituents. No sample was taken from MW-4 because 0.25 feet of floating product was detected. Other than MW-4, concentrations are highest in the down gradient wells EX-1 and MW-3. Concentrations are significantly lower in MW-5 than any of the other wells, reflecting its distance from, and up gradient location relative to, the USTs.

INTERIM REMEDIAL ACTION

Tank Removal Activities:

On February 12, 2004, three ten-thousand gallon USTs were removed from the site. Tank removal activities were performed in accordance with Alameda County Environmental Health Services and City of Oakland requirements. The USTs were removed under the direction of Mr. Hernan Gomez as a representative of the City of Oakland. Pertinent UST documentation is provided in Appendix C. Currently, groundwater is being extracted from the excavation in order to lower the groundwater table prior to the installation of the new USTs. It is anticipated that a total of approximately 60,000 gallons of groundwater will be extracted before the new USTs are installed. The extracted groundwater will be stored in 20,000-gallon Baker tanks, sampled, and disposed of properly utilizing the most cost effective method available. Once the new USTs are installed, the excavation will be back filled with pea gravel to the surface and covered with concrete or asphalt. Approximately 900 tons of impacted soil were removed throughout the course of the UST excavation.

Soil and Groundwater Sampling:

Upon removal of the three USTs, soil samples were collected from the sidewalls and base of the excavation on February 12, 2004. Soil samples were collected as requested in correspondence from your office dated December 29, 2003. Soil samples were collected from two depths at a frequency of 1 per every 20 linear feet along the sidewalls of the excavation, and two soil samples were collected from the excavation base. A groundwater sample was collected from MW-6, which is near the northwest corner of the excavation, as requested by

Mr. Gomez. A total of 14 soil samples and 1 groundwater sample were collected in order to characterize the soil and groundwater removed from the excavation (Figure 3).

Soil and Groundwater Sampling Procedures:

Soil samples were collected by driving a brass liner into soil with a wooden mallet, capped with Teflon tape and end caps, and sealed with duct tape. Prior to collection of the groundwater sample from MW-6, the depth to groundwater was measured to the nearest 0.01 feet using an electric sounder. The depth to groundwater, total depth of the well, and the well diameter were used to calculate the volume of groundwater within the well casing. Over three casing volumes were purged from MW-6 prior to collecting a groundwater sample. 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 a field sampling data sheet which is presented in Appendix D. The groundwater sample was collected and contained in two 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.

Soil and groundwater 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. Soil and groundwater samples were handled under chain-of-custody documentation until delivered to a California certified laboratory.

<u>Laboratory Analysis:</u>

Soil and groundwater samples were analyzed for gasoline-range total petroleum hydrocarbons (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and for methyl tertiary butyl ether (MTBE). The two most contaminated soil samples were analyzed for lead (Pb). Laboratory analysis was performed using EPA method 8015M for TPHg, EPA method 8020 for BTEX, and EPA method SW6010C for lead. The laboratory analytical results are presented in Appendix E and summarized in Table 3 below:

Table 3
<u>Laboratory Analytical Results, Excavation Soil and Groundwater, Alaska Gasoline Co.</u>

Well No.	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-6*	210*	14*	1.4*	9.5*	26*	44*
W Base	19	0.21	0.025	0.0066	0.031	37
E Base	1,600	3.2	29	27	130	17
W-5'	29	0.10	0.34	0.36	2.2	1.7
W-10'	5,100	24	290	130	670	18
E-5'	13	0.12	0.010	0.33	0.19	6.9
E-10'	2,500	4.0	28	52	300	5.6
SW-5'	11	0.020	ND	0.017	0.019	0.51
SW-10'	1,000	3.3	47	22	110	11

Table 3 (Continued)

Well No.	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
SE-5'	32	0.41	1.1	0.54	2.3	50
SE-10°	3,700	11	240	79	460	38
NW-5'	4.3	0.025	0.012	0.045	0.047	4.1
NW-10'	150	0.29	1.6	2.5	14	8.7
NE-5'	2.8	ND	ND	0.019	0.024	1.2
NE-10'	780	ND	0.68	6.5	32	0.86

All soil results in parts per million (ppm)

ND = below detectable limits

All of the samples collected from the excavation and the nearby groundwater monitoring well MW-6 contained concentrations of fuel constituents. Overall, the highest concentrations were observed in the samples collected at 10 feet below surface grade. Soil sample SE-10' contained the highest concentration of MTBE at 38 ppm, while sample W-10' contained the highest concentration of TPHg at 5,100 ppm.

Additional Site Investigation

On March 8, 2004, nine soil samples were collected from beneath the di line system (Figure 4). Samples were collected approximately two feet below th line system (Figure 4). Samples were collected approximately two feet below the by forcing soil into a brass liner using a hand-driven slide hammer. Sampling ber lines was performed under the direction of Mr. Hernan Gomez as a representative of Oakland. A water sample was also collected from each of the two 20,000-tanks and the water extraction line in order to characterize water for disposal purpose work.

laboratory analytical results of the dispenser fuel line samples are presented in Appendix F and summarized in Table 4 below:

Table 4 Laboratory Analytical Results, Dispenser Line Samples, Alaska Gasolin Co.

Well No.	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
L1-I1-2'	1,200	2.6	34	15	100	41
L2-I1-2'	800	0.83	17	11	73	67
L3-I1-2'	52	1.5	3.8	0.74	4.0	30
L1-I2-2'	110	0.61	1.2	1.8	11	14
L2-I2-2'	81	1.9	3.1	1.5	8.5	13
L3-I2-2'	24	1.3	1.8	0.30	1.7	10
L1-I3-2'	190	2.8	11	3.3	17	8.4
L2-I3-2'	200	2.8	12	3.3	18	5.4
L3-I3-2'	37	1.9	2.8	0.71	4.0	11

All results in parts per million (ppm)

^{*} Groundwater sample, reported in parts per billion (ppb)

All of the soil samples contained gasoline constituents. The highest concentrations were present in L1-I1-2' and L2-I1-2', which were collected near the northeast corner of the dispenser system (Figure 4). Approximately 150-200 tons of soil were removed by the dispenser fuel line excavation.

Impacted Soil and Groundwater Disposal:

Approximately 1100 tons of impacted soil from the UST and dispenser line excavation were removed from the site by All Environmental, Inc. (AEI) and disposed of at a Class II landfill. A copy of the waste manifest from Keller Canyon Sanitary Landfill is presented in Appendix G.

Extracted groundwater, which is currently being stored in three 20,000-gallon tanks, will be treated and discharged to East Bay Municipal Utility District (EBMUD) sewer line upon approval. Water will be discharged from the 20,000-gallon tanks, run through granular activated carbon (GAC) canisters, and sampled in order to characterize the treated water. Water must meet EBMUD discharge criteria before a permit is issued. The current standards state that gasoline-impacted water must contain concentrations of benzene, toluene, ethylbenzene, and total xylenes below 5 parts per million.

CONCLUSIONS AND RECOMMENDATIONS

A total of approximately 1100 tons of impacted soil have been removed from the site. Also, between 40,000 and 60,000 gallons of impacted groundwater has been extracted from the site and will be disposed of when the appropriate permits are attained.

The soil vapor extraction system (SVES), as outlined in the interim remedial action (IRA) work plan that was conditionally approved by Alameda County Environmental Health Services in correspondence dated August 13, 2003, is anticipated to be operational sometime during the second quarter of 2004. Installation of horizontal piping will begin within the next two weeks, in conjunction with dispenser line trenching and installation. Once the installation of horizontal piping is complete, a vapor extraction test (VET) will be performed. A work plan for the VET is currently being prepared and will be sent to your office within the next two weeks.

The next quarterly monitoring event is currently scheduled for late May, 2004. If you have any questions or need additional information, please contact me at the letterhead address or at (559) 641-7320.

With best regards, HerSchy Environmental, Inc.

Joshua Teves

Geologist

Herman Schymiczek

Registered Geologist #4165

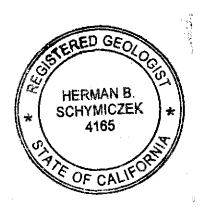
pc: Mr. Pritpaul Sappal

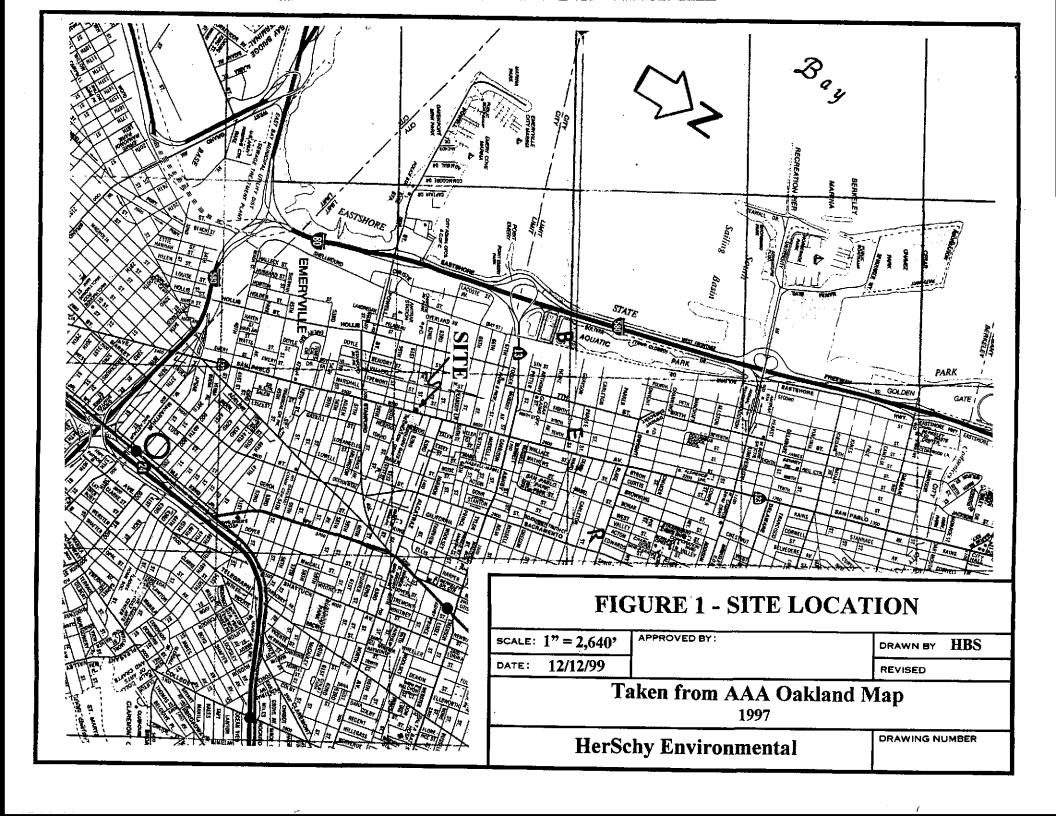
Mr. Syed Nawab, Alaska Gasoline Company

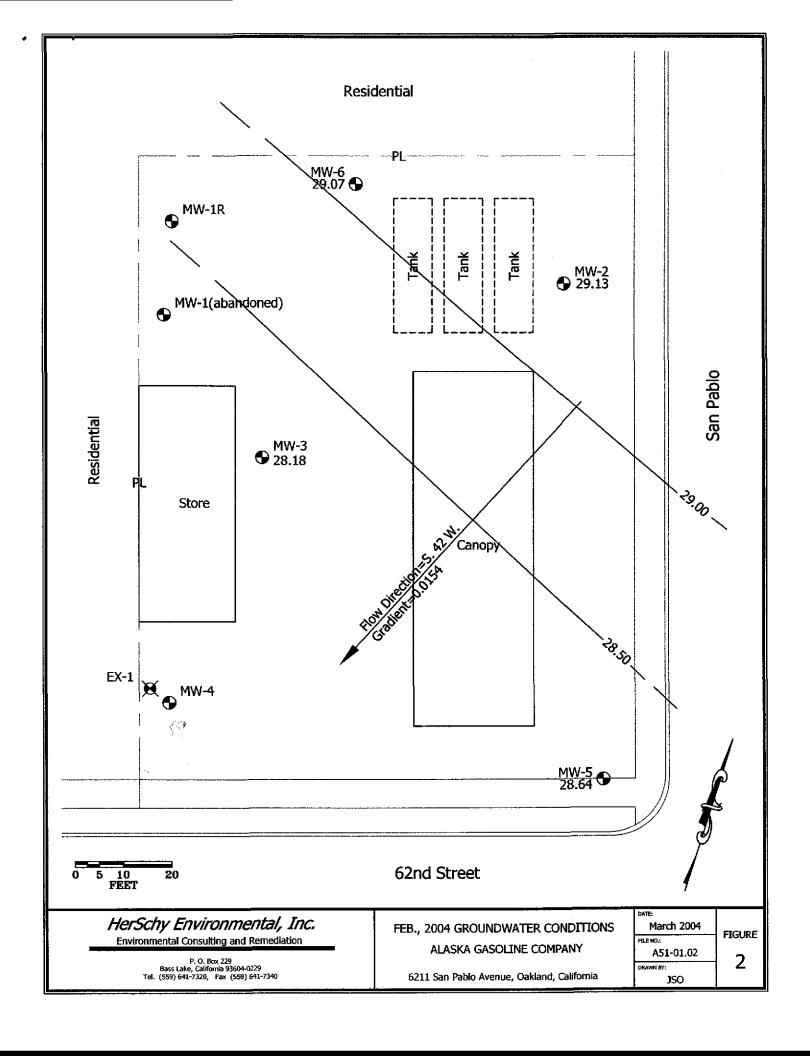
Mr. Hernan Gomez, Oakland Fire Services Agency

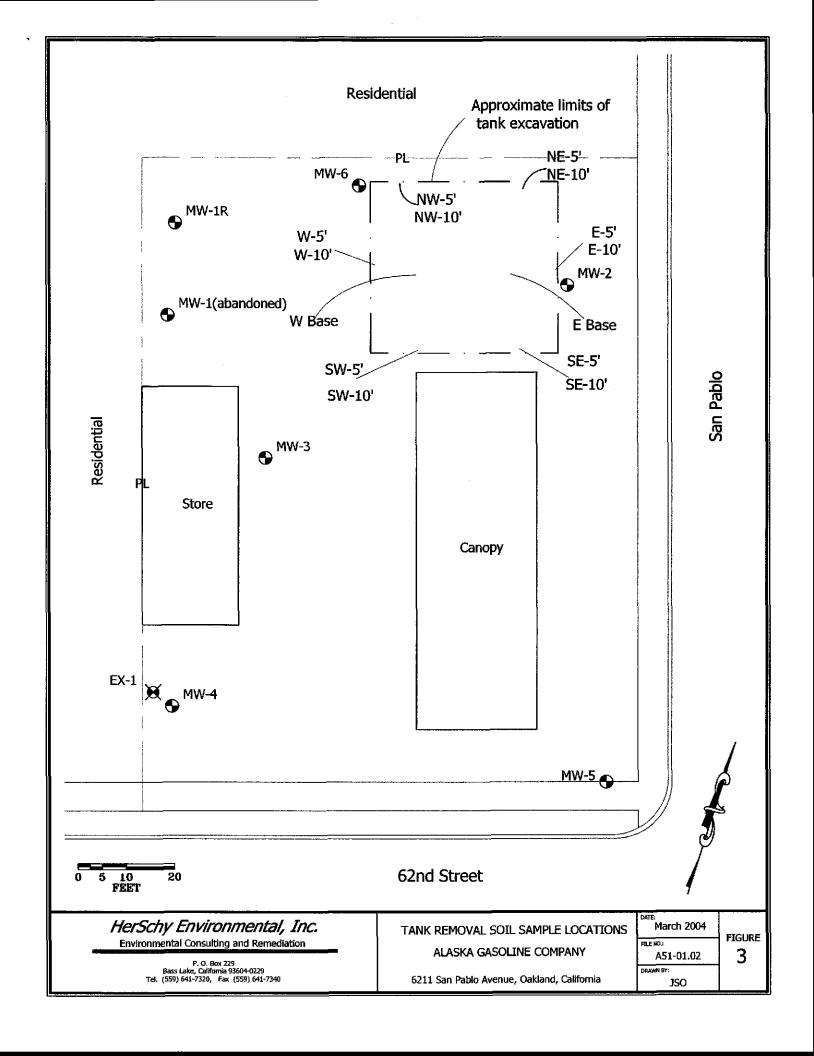
Mrs. Susan M. Torrence, Deputy District Attorney

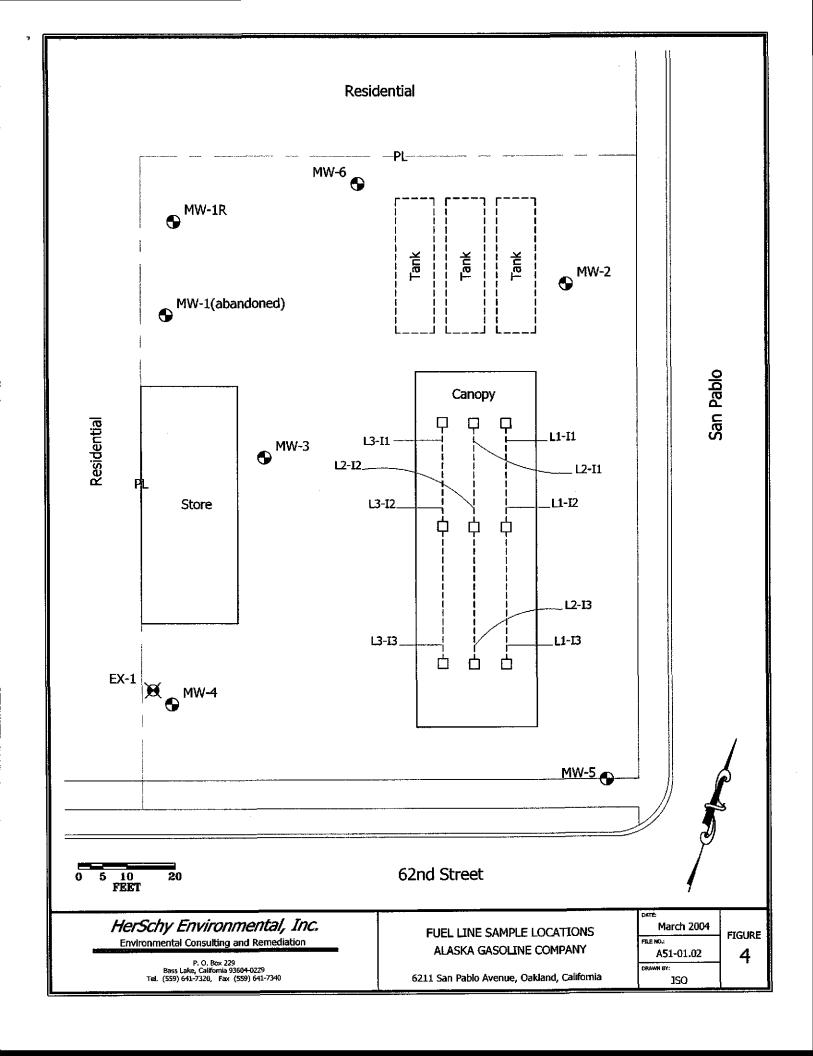
Mr. Terry Hamilton











APPENDIX A

GROUNDWATER SAMPLING FIELD DATA SHEETS

Environmental (1)
Client Name: Slaska Gas Comp. Location: Oakland
Purged By: Oscar Sampled by: Oscar
Sample ID: <u>EX-1</u> Type: Groundwater X Surface Water Other
Casing Diameter (inches): 2 3 4 5 6 Otler
Casing Elevation (feet/MSL): Volume in Casing (gal.): /7./
Depth of Well (feet): 30-2 Calculate Purge Volume (gal.): 51.4
Depth to Water (feet): 3.96 Actual Purge Volume (gal.): 55.0
Date Purged: 2-20-04 Date Sampled: 2-20-04
TIME VOLUME PH E.C. TEMP. TURBIDI, Y
11:00 - 6.85 1124 69.6 C
1205 55gd 6.91 1106 68.4 C
Other Observations: Sheem Odor: Petrolevun
Purging Equipment: Mansoon Pump
Sampling Equipment: Bailer
Remarks: went I was purging EX-1 Mansoon start Pumping white water and gasoline product. Dump 1/2 gal gasoline, continue pumping white product.
Sampler's Signature:
Water Sample Sheet and

Environmental					· •
Client Name: _	Alaska G	sas Cory	2. Location:	Oakla	no
			Sampled by		
Sample ID: M	<u>V-1R</u> T	ype: Groundv	vater Surfa	ce Water	Other
Casing Diamete	er (inches): 2	X 3	_ 4 5	6 Oti	er
Casing Elevatio	on (feet/MSL):		Volume in (Casing (gal.): _	2.9
	(feet):	_	Calculate Purge Vo		_
	(feet): 5.	_	Actual Purge Volu		. .
				•	
Date Purged: _	2-19-1	29	Date Sampled:	2-1	9-09
TIME	VOLUME	pН	E. C.	TEMP.	TURBIDI
16:20		6.87	596	66.2	C
			594		
Other Observati	ions:	·	Odor:	Retroleen	ч .
	nent: W	- dame			
•	oment:			· · · · · · · · · · · · · · · · · · ·	
Remarks: <u>De</u>	veloping i	vell with	1 \$ Van Soog	Dup	
Sampler's Signa	ature:	Liff L			
F					· · · · · · · · · · · · · · · · · · ·

/Water Sample Sheet ... pd

Environmental			. •	
Client Name: <u>Alaska Gas Com</u>	P. Location:	Oaklan	ed .	-
Purged By: Oscar	Sampled by	: Osc	<u>er</u>	-
Sample ID: <u>MW-2</u> Type: Groundw				-
Casing Diameter (inches): 2 3	45	6 Oth	er	
Casing Elevation (feet/MSL):	Volume in	Casing (gal.):	2.4	_
Depth of Well (feet):				_
Depth to Water (feet): 5.8/ A				
Depth to Water (feet):	ctual Pulge Volu	me (gar.)		
Date Purged: 2-20-04	Date Sampled:	1-2	0-04	_
TIME VOLUME pH	E. C.	TEMP.	TURBIDI, 'Y	
7:48 - 6.83				_
8:03 10.ge/ 6.87				٠,
				_
		2 (
Other Observations:		Petro levu	<u>.</u>	-
Purging Equipment: Waferra				-
Sampling Equipment:				-
Remarks:			· · · · · · · · · · · · · · · · · · ·	-
				-
- AM	7			- بر
Sampler's Signature:		······································	*	•

/Water Sample Sheet. pd

Client Name: Alaska (pas Com	Location:	Oaklan	nd .
Purged By: OSCG		1		
Sample ID: MW-3 T			:	
Casing Diameter (inches): 2	<u>×3</u>	45	6 Ot	er
Casing Elevation (feet/MSL):		Volume in	Casing (gal.): _	2.5
Depth of Well (feet): 21.				
Depth to Water (feet): 5.		•		
Date Purged: 2-20				<u>\</u>
TIME VOLUME		E. C.		•
9:34	•			•
9:52 10.0				
Other Obser ations:		Odor:	Petrolevo	<u>u</u> .
Purging Equipment:	stems			
Sampling Equipment:				
Remarks:				·
			,	
Sampler's Signature:	and A			
•				

/Water Sample Sheet. pd

Environmental			,
Client Name: Alaska Gas Comp.	Location:	aklano	<u> </u>
Purged By:	Sampled by:		
Sample ID: MW-4 Type: Groundwate	Surface	Water	Other
Casing Diameter (inches): 2 3 3 4	5	6Oule	:r
Casing Elevation (feet/MSL):	_ Volume in Cas	sing (gal.):	
Depth of Well (feet): Cal	culate Purge Volu	me (gal.):	
Depth to Water (feet): 3,56 Act	ual Purge Volume	(gal.):	\(\frac{1}{\chi}\)
Date Purged:	Date Sampled:		
TIME VOLUME pH	E. C.	ТЕМР.	TURBIDITY
Other Obser ations:	Odor: <u>Pe</u> Y	rolevun	
Purging Equipment:	<i>.</i>		
Sampling Equipment:			
Remarks: Floating gasoline	(3 inch	<u>er)</u>	2-20-04
Sampler's Signature:			
/Water Sample Sheet . pd -	•		

Environmental		<i>(2</i> 9 / /)	Λ.
Client Name: Alaska Gas Comp.	_ Location:	Caklar	id
Purged By: Oscar	_ Sampled t	oy: <u>Osca</u>	a.C
Sample ID: <u>MW-5</u> Type: Groundwa	ater <u>X</u> Sur	face Water	Other
Casing Diameter (inches): 2 3	4 5	6 Oth	er
Casing Elevation (feet/MSL):	Volume in	n Casing (gal.): _	3.2
Depth of Well (feet): 24.7 C			
		lume (gal.):	
Date Purged: 2-20-03		·	
TIME VOLUME pH			TURBIDITY
8:22 - 6.92	726	62.0	C
8:41 11.0gc/ 6.89	781	62.9	Goody
V	<u>.,</u>		<u></u>
Other Obser ations:	Odor:	pe-troleum	
Purging Equipment: Watera			
Purging Equipment: Waferra Sampling Equipment: 1/			·
Remarks:			
A AL	f		
Sampler's Signature: Yas Thore	J	· · · · · · · · · · · · · · · · · · ·	
/Water Sample Sheet : pd			

Environmental		·	` 4
Client Name: <u>Alaska Gas Comp.</u>	_ Location: _	Oakland	<u>d</u>
Purged By: Oscar			
Sample ID: MW-6 Type: Groundwa	nter <u>X</u> Surfa	ce Water	Other
Casing Diameter (inches): 2 3	45	_ 6 Oti	er
Casing Elevation (feet/MSL):	Volume in (Casing (gal.):	3.0
Depth of Well (feet): 23.8 Ca			
Depth to Water (feet): 5.61 Ac			
Date Purged: 2-20-03		•	·
TIME VOLUME pH	E. C.	TEMP.	TURBIDI TY
7:10 — 6.70	605	60.1	<u> </u>
7:27 10.0g. 6.73			•
	****		,
Other Obser ations:	Odor:	Petroleum	
Purging Equipment: waterra			
Purging Equipment:			
Remarks:			
Sampler's Signature:			
/Water Sample Sheet > pd -		•	

APPENDIX B

CERTIFIED ANALYTICAL RESULTS--GROUNDWATER WITH CHAIN OF CUSTODY

Environmental Testing Services

2333 Shuttle Drive, Atwater, CA 95301

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

HerSchy Environmental

P.O. Box 229

Certificate #2480

Bass Lake, CA 93804 Attn: Joshua Teves

Client Project ID: Alaska Gas Company - Oakland Reference Number: 6670

Sample Description: Water

Sample Prep/Analysis Method: EPA 5030/8015M, 8020

Lab Numbers: 6670-1W, 2W, 3W, 4W, 5W

Sampled: See Below

Received: 02-20-04 Extracted: 02-25-04

Analyzed: 02-25-04 Reported: 03-05-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID MW-1R (µg/L)	SAMPLE ID MW-2 (µg/L)	SAMPLE ID MVV-5 (µg/L)	EAMPLE ID MW-6 (µg/L)	SAMPLE ID MVV-3 (µg/L)	
MTBE	0,50	220	15000	1.5	2700	160000	
BENZENE	0.50	95	4600	ND	280	1800	
TOLUENE	0.50	130	120	ND	58	630	
ETHYLBENZENE	0.50	44	970	ND	17	ND	
TOTAL XYLENES	0.50	200	2000	ND	160	ND	
GASOLINE RANGE HYDROCARBONS	50	1800	21000	ND	1900	86000	
Report Limit Multiplication Report Limit Multiplication		10	100 500	1	10 100	10 1 000 0	
Date Sampled:		02-19-04	02-20-04	02-20-04	02-20-04	02-20-04	

Surrogate % Recovery: FID: 168% / PID: 165% FID: 102% / PID: 88.1% FID: 101%/ PID: 103% FIE: 88,4% / PID: 93,6% FID; 82.2% / P(D) 92,4% 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:

iames C. Phillips Laboratory Director

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

HerSchy Environmental Client Project ID: Alaska Gas Company - Oakland Sampled: 02-20-04
P.O. Box 229 Reference Number: 6670 Received: 02-20-04
Bass Lake, CA 93604 Sample Description: Water Extracted: 02-25-04
Attn: Joshua Teves Sample Prep/Analysis Method: EPA 5030/8015M, 8020 Analyzed: 02-25-04
Lab Numbers: 6670-6W Reported: 03-05-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID EX-1	
	μg/L	(µg/L)	
MTBE	0.50	150000	
BENZENE	0.50	9500	
TOLUENE	0.50	4300	
ETHYLBENZENE	0.50	840	
TOTAL XYLENES	0.50	3900	
GASOLINE RANGE HYDROCARBONS	50	120000	
Report Limit Multiplication	Eastor	1000	
Report Limit Multiplication		10000	•

Surrogate % Recovery:	FID: 08,454, FND-100%	
Instrument ID:	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

APPROVED BY:

James C. Phillips Laboratory Director

Environmental Testing Services

2333 Shuttle Drive, Atwater, CA 95301

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

Certificate No.2480

HerSchy Environmental

Client Project ID: Alaska Gas Company - Oakland

Sampled: 02-20-04

P.O. Box 229 Bass Lake, CA 93604 Reference Number: 6670 Sample Description: Water Received: 02-20-04 Extracted: 03-03-04

Attn: Joshua Taves

Sample Prep/Analysis Method: LUFT/EPA 8015B

Analyzed: 03-03-04

Lab Numbers: 6670-6W

Reported: 03-05-04

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE

ANALYTE	REPORTING LIMIT	SAMPLE ID EX-1		
	(μg/L)	(µg/L)		
DIESEL RANGE HYDROCARBONS	50	2300		

Report Limit Multiplication Factor;

C10->C28

1

lighter hydrocarbons also present

· · · · · · · · · · · · · · · · · · ·				
Instrument ID:	H	HP-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:

APPROVED BY:

James C. Phillips Leboratory Director

Relinquished by:

Received by:

CHAIN OF CUSTODY

RESULTS DUE:

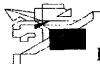
___ VERBAL

WRITTEN

Certificate No. 2480 Location: 2333 Shuttle Drive, Bldg 908/909, Atwater, CA 95301 PAGE _OF_ Mailing Address: 2333 Shuttle Drive, Atwater, CA 95301 Phone: (209) 384-2930 - Fax: (209) 384-1507 REQUESTED ANALYSES Method of Shipment: -OuiDIN Customer: NUMBER OF CONTAINERS Address: SAMPLE TYPE (g) grab (c) composite (d) discrete SAMPLE MATRIX
(s) solid (l) liquid (o) other
BTEX/TPH-GAS Electronic Deliverables (EDF) 8260 City/State/ZIP: Notes: Phone / FAX: Oxy's / EDB / DCA by TRPH 418.1M TPH-DIESEL Proi # / P.O. #: 3 Report Attention: Toolsug Sampler Signature: Printed: actions **OBSERVATIONS/REMARKS** Lab ID# TIME **DESCRIPTION/LOCATION** SAMPLE ID DATE 16:40 8:05 2 2 Mill -1 20 W 2 7 20-04 9:55 Alt(I)-3 7-20-04 Total number of containers submitted to /Signature Printed Name Date Company Name the laboratory Time Note: All special requests (e.g. 2-20-04 12:20 Relinguished by: quick turn times) must be cleared Received by through authorized laboratory personnel. Relinquished by: Received by:

APPENDIX C

UST REMOVAL DOCUMENTATION



City Of Oakland

FIRE PREVENTION BUREAU

250 Frank Ogawa Plaza, Ste. 3341 Oakland California 94612-2032 510-238-3851





Oakland, California December 8, 2003

Tank Permit Number:

2003 - 087

Permission Is Hereby Granted To:		
Remove Gasoline, Diesel Tank Ar	nd Excavate Commencing: Feet Inside: Property	Line.
On The:		
Site Address: 6211 San Pablo Avenue	Present Storage:	
Owner: Syed Nawab	Address: 6211 San Pablo Ave., Oakland, 94608	Phone: 510-547-3335
Applicant: Too Accutite Evry Hamilton	Address: 35 So. Linden, South San Francisco, C	A 94080 Phone: 415-559-3496
Dimensions Of Street (sidewalk) Surface To Be Distu	rbed: X No. Of Tanks 3 Capacity	16,000 Gallons, Each
Remarks - Lines will be removed	e d'later Time	30 K
This Permit Is Granted In Accordance With Existing City Ordinances. Removing	Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notific Or Repairing Tanks, No Open Flame To Be On Or Near Premises.	ed By The City Authorities When Installing,
CERTIFICATE OF	F TANK AND EQUIPMEN <u>T INSPEC</u>	TION
		eM
	Inspected And Passed ()n: 2/12/04
	UST/AST Installations/modifications:	By: H. Gomes
Approved:	Pressure Test: Inspected By:	Date:
Fire Marshal	Primary Piping Test: Inspected By:	Date:
Inspection Fee Paid: \$ 1902.00		
Received By: M McCarthy ck# 3173 rec# 867605	Secondary Containment & Sump Testing:	Date:
	— Inspected By: Final: Inspected By:	Date:
Refore Covering Tanks. Above Certification M.	fust Be Signed When Ready For Inspection Notify Fire Prevention	

Distribution: White - Fire Prevention Bureau, Yellow - Contractor, Pink - Electrical Inspection

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

OAKLAND FIRE DEPARTMENT, OES UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

· · · · · · · · · · · · · · · · · · ·	AD SIC	JKAGI	2 12	ZIAIZ (LUSU.	RE/REMOVAL FIELD INSI	PECTIO	N RE	OR	r	•
Site Address: 6 1 1 Stun	Palita					Name of Facility:	C/3				
Inspector:	<u> </u>					Contact on pite	1	ムラ			
Date and Time of Arrival:	10,70	4-1			· · · · · · · · · · · · · · · · · · ·	Contractor/Consultant:	A V Dering	 :			<u> </u>
Cananal Bassia					1						
General Requireme Approved closure plan on site.	ents		es_	No	N/A	General Requiren	ients		Yes	No	N/A
		l.				Site Safety Plan properly signed.			1,000		1
Changes to approved plan noted.			· *		لــــــا	40B:C fire extinguisher on site.	· · · · · · · · · · · · · · · · · · ·		j jamen (
Residuals properly stored/transpor			/,			"No Smoking" signs posted.			2000	 	
Receipt for adequate dry ice noted			S. F.	- C		Gas detector challenged by inspector.				 	<u> </u>
Tank Observations	T #1	T #2		#3	T #4	Tank Observations	T #1	T #2		110	<u> </u>
Tank Capacity (gallons)	IOK.	ič K		<u> </u>		Obvious corrosion?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 #2	┸	#3	T #4
Material last stored	12 2 2 47	77 - 500 - 100 - 100		5		Obvious odors from tank?	15'		_		
Dry ice used (pounds)	300	300		<u> </u>		Seams intact?	4		 		
Combustible gas concentration as	%LEL. (N	ote time	& sar	npling	point)	Tank bed backfill material	Ú				
(1)		22				Obvious discoloration?			-		
(2)			\top			Obvious odors ex tank bed?	Gr.		+		
(3)						Water in excavation?	\(\lambda \) \\		+	-+	
Oxygen concentration as % volum	ne. (Note i	time &sa	mplir	g point	L)	Sheen/product on water?	4/		+		
(1)	9	i ja	T	0		Tank tagged by transporter?	- /		+		
(2)	<u> </u>					Tank wrapped for transport?			 		
(3)						Tank plugged w/ vent cap?			\top	*	
Tank Material						Date/time tank hauled off?	1/10/2	Ly	`:		
Wrapping/Coating, if any	<u> </u>					No. of soil samples taken?	Fox				10
Obvious holes?	14					Depth of soil samples (ft. bgs)	G.		-	-	Paragonal
Piping Removal	 .		es	No	N/A	General Observat	•		37.	1 37	257
All piping removed hauled off w/		- -		140	100		ЮПЗ		Yes	No	N/A
Obvious holes on pipes?			£	.,,	1	Leak from any tank suspected? "Leak Report" form given to the	operator?	- -		<u> </u>	, * ·
Obvious odors from pipes?			- 4			Obviously contaminated soil exce	-			 	-
Obvious soil discoloration in pipin	g trench?				2/	Soil stockpile sampled?	- raica;		1	-	
Obvious odors from piping trench	?				1,000	Stockpile lined AND covered?			-	-	
Water in piping trench?						Water in excavation sampled?				 -	<u> </u>
Number & depth of soil samples f	rom piping	trench?			-	Number/depth of water samples	taken?			:	<u> </u>
Number & depth of water samples	from pipir	ng trench	?		11	All samples properly preserved for	r transport	?	1		
Additional Observat	tions	1	es	No	N/A	SITE & SAM	DI INC I	TACE	A BAT		- !
Soil/water sampling protocols acce			7		- "	CALL G SAIN	(7	·MYN	* PTAT	- · · <u>-</u>	
Sampling "chain of custody" notes	-		_	_ .	 	The same of the sa					
Tank pit filled in or covered?					 	$+(\mathfrak{S}^3)$ ($-\mathfrak{S}^3$)				
Tank pit fenced or barricaded?			7			The state of the s					
Transporter a registered HW haule	er?			L	 	- Land - 1974	7				
Uniform HW Manifest completed			1		╁	And the second s	and Mag				
Contractor/Consultant reminded of				L	 	The same of the sa	}				
UST Removal Report due within	30 days?		/			San Company of the Co	an charge wife				
Date/Time removal/closure operat			£.,	77	$C \sim 1$						
OT hours or additional charges du	e from con	tractor?			:						
Notes/Comments:	ir v	<u> </u>	N.	ÚΛ.	(_() =	2 in O Esperation				•	.y (1)

14, (14) r

APPENDIX D

UST REMOVAL GROUNDWATER FIELD DATA SHEET

HerSchy WATER SAMPLE FIELD DATA SHEET Environmental

Client Name: Alaska Gas	Location: Oakland
Purged By:	Sampled by: 5. Teves
Sample ID: MW-6 Type: Groundw	
Casing Diameter (inches): 2 X 3	4 5 6 Other
Casing Elevation (feet/MSL):	Volume in Casing (gal.): 2.65
Depth of Well (feet): 23.32	Calculate Purge Volume (gal.):
Depth to Water (feet): 7.04	Actual Purge Volume (gal.): +8
Date Purged: 21204	Date Sampled: 2/12/04
TIME VOLUME pH 7,20	E.C. TEMP. TURBIDITY 605 68.7 mwky
	<u>676</u> <u>67.3</u>)(
Other Observations:	Odor: Has strong
Purging Equipment: Waterra	
Sampling Equipment:	
Remarks:	
Sampler's Signature:	ty
/Water Sample Sheet wpd	· · · · · · · · · · · · · · · · · · ·

APPENDIX E LABORATORY ANALYTICAL RESULTS FOR UST REMOVAL GROUNDWATER AND SOIL SAMPLES WITH CHAIN-OF-CUSTODY DOCUMENTATION

Environmental Teating Services

2333 Shuttle Drive, Atwater, CA 95301

Phone: (209) 384-2930

Certificate #2480

HerSchy Environmental

Client Project ID: Alaska Gasoline Company - Oakland

Fax: (209) 384-1507

P.O. Box 229 Bass Lake, CA 93604 Reference Number: 6626 Sample Description: Water Sampled: 02-12-04 Received: 02-13-04

Attn. Joshua Teves

Sample Prep/Analysis Method: EPA 5030/8015M, 8020

Extracted: 02-17-04

Lab Numbers: 6626-15W

Analyzed: 02-17-04

Reported: 02-23-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID	
	μg/L	MW-6 (µg/L)	
MTBE	0.50	44	
BENZENE	0.50	14	
TOLUENE	0.50	1.4	
ETHYLBENZENE	0.50	9.5	
TOTAL XYLENES	0.50	26	
Gasoline Range Hydrocarbons	50	210	
Report Limit Multiplication Fac	e to r;	2	

Surrogate % Recovery	:
----------------------	---

710: 118% / PID: 115%

instrument ID:

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:

Japles C. Phillips Kaboratory Director

Environmental Testing Services

Certificate # 2480

2333 Shuttle Drive, Afwater, CA 95301

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

HerSchy Environmental

P.O. Sox 229

Bass Lake, CA 93604 Attn: Joshua Teyes Client Project ID: Alaska Gasoline Company - Oakland Reference Number: 6626

Sample Description: Soil

Sample Prep/Analysis Method; EPA 5030/8015M, 8020 Lab Numbers: 6626-15, 25, 35, 45, 55 Sampled: 02-12-04 Received: 02-13-04 Extracted: 02-17-04

Analyzed: 02-20-04 Reported: 02-20-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID W Base	SAMPLE ID E Base	SAMPLE ID W-5'	SAMPLE ID W-10'	SAMPLE ID	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	E-5' (mg/kg)	
MTBE	0.010	37	17	1.7	18	8.9	-
HENZENE	0.0050	0.21	3.2	0.10	24	0.12	
TOLUENE	0.0050	0.025	29	0.34	290	0,010	
CTITYLBENZENE	0.0050	0.0066	27	D. 36	130	0.33	
TOTAL XYLENES	0.0050	0.031	130	2.2	670	0.19	
GASOLINE RANGE HYDROCARBONS	1.0	19	1600	29	5100	13	
Report Limit Multiplication Report Limit Multiplication		1 100	200	2	1000	1 20	

Surrogate % Recovery:	FIO: HIGH / PIO: 97.1%	bir.	NA	NA	P(D) 12794 / P(D) 10694	
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 × Report Limit Multiplication Factor

ANALVOT

Clari I Cont

APPROVED BY:

James C. Phillips Laboratory Director

Environmental Testing Services Certificate # 2480 2333 Shuttle Drive, Atwater, CA 95301

Phone: (209) 384-2930

Fex: (209) 384-1507

Heitichy Environmental

P O. Box 229

Bass Lake, CA 93604

Altn: Joshua Teves

Client Project ID: Alaska Gasoline Company - Oakland

Reference Number: 6626

Sample Description: Soil

Sample Prep/Analysis Method: EPA 5030/8015M, 8020

Lab Numbers: 6626-65, 75, 85, 95, 105

Sampled: 02-12-04

Received: 02-13-04 Extracted: 02-17-04

Analyzed: 02-20-04 Reported: 02-20-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID E-10'	SAMPLE ID SW-5'	SAMPLE ID SW-10'	SAMPLE ID SE-5'	SAMPLE ID SE-10"	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
MTBE	0.010	5.6	0.51	11	50	38	
BENZENE	0.0050	4.0	0.020	3.3	0.41	11	
TOLUENE	0.0050	28	ND	47	1.1	240	
H IHYLBENZENE	0.0050	52	0.017	22	0.54	79	
COTAL XYLENES	0.0050	300	0.019	110	2.3	460	
GASOLINE RANGE HYDROCARBONS	1.0	2500	11	1000	32	3700	
Report Limit Multiplication	Factor:	500	1	100	5	500	

Surrogate % Recovery:	HA	FID: 1723/ / PID: 106%	iya.	₩A	NA
Instrument tD:	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

TRY IAMA

APPROVED BY:

Jeglos C. Phillips Joboratory Director

Environmental Testing Services

2333 Shuttle Drive, Atwater, CA 95301

Phone: (209) 384-2930

Certificate # 2480

Fax: (209) 384-1507

HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604

Attn. Joshua Teves

Client Project ID: Alaska Gasoline Company - Oakland Reference Number: 8626

Sample Description: Soil

Sample Prep/Analysis Method: EPA 5030/8015M, 8020

Lab Numbers: 6626-115, 125, 135, 145

Sampled: 02-12-04 Received: 02-13-04 Extracted: 02-17-04 Analyzed: 02-20-04

Reported, 02-20-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID NW-5'	SAMPLE ID NW-10'	SAMPLE ID NE-5'	SAMPLE ID NE-10'	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
MTBE	0.010	4,1	8.7	1.2	0.86	
BENZENE	0.0050	0.025	0.29	ND	ND	
TOLUENE	0.0050	0.012	1.6	ND	0.68	
ETHYLBENZENE	0.0050	0.045	2.5	0.019	6.5	
TOTAL XYLENES	0.0050	0.047	14	0.024	32	
GASOLINE RANGE						
HYDROCARBONS	1.0	4.3	150	2.8	780	
Report Limit Multiplication	Report Limit Multiplication Factor:		20	2	50	
Report Limit Multiplication	Factor for MTBE only:	5		5		

Surrogate % Recovery:	FID: 110% / PID: 100%	HA	NA	WV
Instrument ID:	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

ANALYST:

Cincl I Cono

APPROVED BY:

James C. Phillips Leboratory Director CASTLE ANALYTICAL LABORATORY - PORTERVILLE

Environmental Testing Services 2780 Yowlumne Ave., Suite C Phone: (559) 781-6099
Certificate No. 2551 Portervilla, CA 93258 Fax: (559) 781-6091

HerSchy Environmental Client Project ID: Alaska Gasoline Company - Oakland Received: 02-12-04
P.O. Box 229 Reference Number: P262 / 6626 Prepared: 02-25-04
Bass Lake, CA 93604 Sample Description: SOIL Analyzed: 02-26-04
Atln: Joshua Teves Lab Numbers: P262-18, 2S Reported: 02-27-04

ICP Metals - EPA SW6010C

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID VV-10' (mg/kg)	SAMPLE 10 SE-10' (mg/kg)	
LEAD (Pb)	5.0	ND	ND	
ort Limit Multiplication Factor:		1	1	

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

APPROVED 8Y:

Laboratory Director

CASTLE ANALYTICAL LABORATORY - PORTERVILLE

Environmental Testing Services

2780 Yowlumna Ave., Suite C

Porterville, CA 93258

Phone: (559) 781-6099

Fax: (559) 781-6091

HerSchy Environmental

P.O. Box 229

Bass Lake, CA 93604 Attn: Joahua Teves ____

Client Project ID: Alaska Gasoline Company - Oakland Reference Number: P262 / 6626

Sample Description: SOIL

Instrument ID: TJA 81E

Sample Prep Method: SW3050 Analysis Method: SW6010C

Prepared:

02-26-04 02-26-04

Analyzed: Reported:

02-20-04

QUALITY CONTROL DATA REPORT

SPIKE ID:

ICP 2264

COMPOUNDS	mg/kg		1
Lead 5.0 ND	100	98.5%	80 - 120

	Spiking Level :mg/kg	MATRIX SPIKE %R	MATRIX SPIKE DUP %R	"4R Limits	%RPD
COMPOUNDS Lead	100	91.8%	91.3%	70 - 130	0.27%

The LCS (Laboratory Control Spike) is a control sample of known, interferent free matrix that is fortified with representative analytee and analyzed using the same respents, preparation and enalytical 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 eccept or reject batch results.

APPROVED BY:

James V. Phillips Laboratory Director

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: Joshua Teves

Client Project ID: Alaske Gasoline Company - Oakland

Reference Number: 6626

Sample Description: TCLP ZHE Extract

Sample Prep/Analysis Method: EPA 1311/5030/8020

Lab Numbers: 6626-45

Sampled: 02-12-04 Received: 02-13-04 Extracted: 02-25-04

Analyzed: 02-27-04

Reported: 02-27-04

TCLP ZHE EXTRACTION

ZENE 0.50 320

Report Limit Multiplication Factor:

10

Surrogate % Recovery:

12514

Instrument IO:

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:

APPROVED BY:

Jaynes C. Phillips (

Leboratory Director

P

CASTLE ANALYTICAL LABORATORY

CHAIN OF CUSTODY

	Shuttle Drive, Blo	•		A 90301	CEIL	meate	MU, 2	V									B47	SE OF
-	s: 2333 Shuttle Dri															'	rau	EOF
	64-2930 - Fax: (2				T	- 	1		, ne	QUE	OT F	X A A I	AT V	re		· 1		Method of Shipment:
Customer: _	thiska	Gasolv	ne co	mpany	ł		-	ii	T	ŲUE. T	SIE	ZAN	ALT	1 1		╌╢		Medior of orderen.
Address:				<u> </u>	를	×		1			8					훙	Ä	
City/State/Z		anc			SAMPLE TYPE (g) grab	SAMPLE MATRIX			ŀ		by 6260					Ü	TAII	Notes:
Phone / FA)		-			쎝		1		탨	E	ร์	_			1	ۇ	CO	and contaminated
Proj#/P.O.	ntion: Soshua	a + 2.10	٠		Įξ			MATE	불	1	ĮŠ	9260				흫	ð	74054 Cont 14 1 1 1 1
Sampler Sig		5+1m			12 1	5 3	BYEXTPH-GAS	2	TPH-DIESEL	TRPH 418.1M		֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓			1 1	ž D	BER	Most contaminated for Lead
Prin		Josh T			13 ;	9	• [*	' 			Oxy's / EDB / DCA					Electronic Deliverables (EDF)	NUMBER OF CONTAINERS	
Lab (D#	SAMPLE ID	DATE	TIME	DESCRIPTION/LOCATION	1	'		ı			ľ					Ü		OBSERVATIONS/REMARKS
102016	WBase	7121			12	L 5	7	(7									ı	
133		3			┪	1	15	Ti	Ť		1	П					П	
-35	W-5'		 		П		1	#			1							
-,2	W-10'	 - - 		 	\Box	1	╢	71			1	Π						
·45 -55	£-5'	 			H	- -	1	#	\top		┢	Г					Г	
6	F-10'				11	- 	╢	#	†		t	Г					Г	
-15	5W-51	 			11	++	╢	╁	十	†	T	T					lacksquare	
-85	2M-2	 			╁		╢	╫	1	1	1	Г	f				Τ	
-95	SW-10'	 	-	<u>-</u> .	┼┧		╫	+	+	+-	╁╌	十	t^-		+	\Box	H	
70	5e-101	1 1	ļ <u>.</u>		H	++	╫	╁	╫╴	+	╁	╁┈	t		\top		Н	
- 51/S	36-10	 	· · · · · · · · · · · · · · · · · · ·		╂╌╂	-1-1	╫	╁	╂-	╁┈	+	H	t	 	+	Н		
	NW-5'	 - 			╂╌┼	-++	╬	╁	╫┈	+	+	╁	-	╂╌╂╼	╅	Н	\vdash	
-126	MM-10,	\vdash			╂╂		╌╫	+	}	╁╌	╁	┢	┢	╂╼┼╴	+	H	H	<u></u>
~13¢	NE-5	 			╂╂	- -	-H	 -	-	╁	╁┈	╁		╂╾┼╴	+	$\vdash \vdash$	V	
		W.			扫	<u> </u>	7	\mathcal{H}	4-	 	┼	╀	₩	┼-┼-	+-	Н	ν.	
n in the lister	11.111.11 D	<i>भायल</i>	1338					Ų.		1 (27)	<u> </u>	<u></u>		1			<u> </u>	Total number of containers submitted in
		Sprattre		Printed Name) i)ate		jore	2 2 3 1 2 3 1 2 4 1		Con	ιpa	ny Nar	ne	: , : :	14	<u> </u>
Relinquished by		T	m	Joshna Teva	<u> </u>	2	1 7/4	ŊТ		$\prod I$	1	Sc	<u>h</u>					ote: All special requests (e.g.
Received by:	// -	· · · · ·					•	Т										rough authorized laboratory
Relinquished by								T										ersonnel .
Received by:	101	~ /	_			\neg		T										
Relinquished by	1 14	1/0		c/7 . 1	_	1				1						~	RE	SULTS DUE :
Received by:		X 1/2		faricula from	91	20/	ΔI_{Γ}	10	13	1/4	ust.	e	T	akin	ice	1		VERBAL WRITTEN
,	9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				11		- 44	_								-	_	

APPENDIX F

LABORATORY ANALYTICAL RESULTS

FOR DISPENSER LINE SOIL SAMPLES AND CHAIN OF CUSTODY

No Phon Zaypiping Samples as regin Chain

Environmental Testing Services Conficate # 2480

2333 Shuttle Drive, Atwater, CA 95301

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

HerSchy Environmental P.O. Box 229

Client Project ID: Alaska Gasoline Corp. - Oakland

Bass Lake, CA 93604 Altn: Joshua Teves

Reference Number: 6737 Sample Description: Soil

Sampled: 03-08-04 Received: 03-11-04 Extracted: 03-11-04

Sample Prep/Analysis Method: EPA 5030/8015M, 8020

Analyzed: 03-11-04

Lab Numbers: 6737-65, 75, 85, 95

Reported: 03-12-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	
	(mg/kg)	(mg/kg)	L1-I3-2 (mg/kg)	L2-13-2 (mg/kg)	L3-13-2 (mg/kg)	
MTBE	0.010	10	8.4	5.4	11	
BENZENE	0.0050	1.3	2,8	2.8	1.9	
TOLUENE	0.0050	1.8	11	12	2.8	
ETHYLBENZENE	0.0050	0.30	3.3	3.3	0.71	
TOTAL XYLENES	0.0050	1.7	17	18	4.0	
GASOLINE RANGE HYDROCARBONS	1.0	24	190	200	37	
Report Limit Multiplication Report Limit Multiplication	Factor: Factor for MTBE only:	2 50	20	20	5 50	

			-		
Surrogate % Recovery:	NA	MA	NA.	NA.	
Instrument ID:	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

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

Client Project ID: Alaska Gasoline Corp. - Oakland Reference Number: 6737

Sampled: 03-08-04 Received: 03-11-04

Bass Lake, CA 93604 Attn: Joshua Teves

Sample Description: Soil Sample Prep/Analysis Method: EPA 5030/6015M, 8020 Extracted: 03-11-04

Lab Numbers: 6737-15, 2\$, 35, 45, 5\$

Analyzed: 03-11-04 Reported; 03-12-04

TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT	SAMPLE ID	SAMPLE ID	SAMPLE ID L3-I1-2	SAMPLE ID L1-I2-2	SAMPLE ID	
lety-in-lety	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
MTBE	0.010	41	67	30	14	13	
BENZENE	0.0050	2.6	0.83	1.5	0.61	1.9	
TOLUENE	0.0050	34	17	3.8	1.2	3.1	
ETHYLBENZENE	0.0050	15	11	0.74	1,8	1.5	
.TOTAL XYLENES	0.0050	100	73	4.0	11	8.5	
GASOLINE RANGE HYDROCARBONS	1.0	1200	800	52	110	81	
Report Limit Multiplication Report Limit Multiplication		100	100	5 50	20	20	

Surrogate % Recovery:	14A	NA	MA	NA	NA	
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 E. Prillips Laboratory Director

Received by:

CHAIN OF CUSTODY

WRITTEN

VERBAL

CUSIL	L'ANALI.			MILORI								į			<u> </u>	ואו		01 000	, , , , , , , , , , , , , , , , , , , 	
Location: 233	3 Shuttle Drive, Bio	dg 908/909, i	Atwater, CA	95301	Certi	ficate N	o. 24	480				1						1	1	
Mailing Addres	ss: 2333 Shuttle Dri	ive, Atwater,	CA 95301														PAG	SEOF_	<u> </u>	
	384-2930 - Fax: (2							/A						,	40		<u></u>			
Customer:	Alada G	willing	Campus	n v			250		RE	QUE	STE	D AN	ALYSE	S	化紫胶		\Box	Method of Ship	oment:	
Address:			7	/	g g	h 5				1	_					اجا	SS.			
City/State/2	IP: Nakla	nd			9) gr	X 를		1		1	8260						3	Notes:		
Phone / FA	X:] 	D MAT	\$¥			Σ	8					Se l	CONTAINERS	Toot Ho	mout	
Proj # / P.O		<u>.</u>			SAMPLE TYPE (g) grab (c) composite (d) discrete	SAMPLE MATRIX (s) solid (i) liquid (o) other	BTEX/TPH-GAS	出	TPH-DIESEL	TRPH 418.1M	걸	8260				l ge	ន្ត	Test the contam samples	ا د ۱۳۱۷ عم	
Report Atte		Teves			빌		15	MTBE	3	Ŧ	ìè	82				충	NUMBER OF	contam	MATER	Ŀ
Sampler Sig	- A &		uhe		1 8 E	Sos	##	1	₽	۳				ł		울	Me	camples 1	pr jead	<u>, , , , , , , , , , , , , , , , , , , </u>
Pri	nted: 0/	Jeff	GINN	le		1 8		ŀ			Oxy's / EDB / DCA by					Electronic Deliverables (EDF)	⊋			
Lab ID#	SAMPLE ID	DATE	TIME	DESCRIPTION/LOCATION												"			IONS/REMAR	
	L1-11-1	3/8/04	1230			15	X	X									1	Rush	Please !	
	12-11-2	}	1220			T	1										1	•		
	13-11-2		1240				П	П												
	41-12-7		1255					П												
	L2-I2-1		1300														\prod			p.
	13-12-2		1305				П	П								П	\Box			
	41-13-2		1325					$\dagger \dagger$	 							\Box	\sqcap		*	
1,000	62-13-2		1320		 	11	H	17								П				
- And	L3-13-2	 	1315		 	1	J	寸	_						\vdash	Н	4	V		
			1 91.0		\vdash	 	╟	Ť	一				-+	+						
12.00	M				┼──	+-	┢	1	\vdash		-			+	Н	Н	\neg			
					 	-	╟─		┢	-			-+	+			\dashv			
	3				╁	╂	⊩	╁	├			\vdash					\dashv			
				·	├	<u> </u>	 - -	-	 			-			\vdash	lacksquare				
					 	4	 	-	 	<u> </u>		_				_				
						n 830,000 as	8.010-101								· · · · ·			Total number of o	containare euloni	Hed to
	Section below the	Signature		Printed Name		Da	te	Įπ	me		(Jom	рапу	Nam	е		9		laboratory	led io
Relinquished b	y: (PATE)	unule		Jeff Guryle		3/10	104	21	30		He	r [ch.	,				te: All special re		
Received by:	800				VIII. ·		,						1					ck turn times)		·ed
Relinquished b	v:																	ough authorize sonnel .	a laporatory	
Received by:	<i>*</i>					†		 									p.u.			
Relinquished b						1		\vdash		 				·			RES	SULTS DUE :		
Buzennidanonaa n	у.		1					L		L								,02,000		_

APPENDIX G WASTE MANIFEST

80:50 P00X/C1/F0	9259442895	ALI CUNSULTANTS
Keller Canyon	Ox Mountain	☐ Newby Island
Sanitary Landfill	Sanitary Landfill	Sanitary Landfill

12310 San Maleo Road 901 Bailey Road Half Moon Bay, CA 94019 Pittsburg, CA 94565 Phone (925) 458-9800 Phone (650) 726-1819 Fax (925) 458-9891 Fax (650) 726-9183

1601 Dixon Landing Hoad Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill 9999 S. Austin Fload Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

Ű۷

MAUL

NON-HAZARDOUS WASTE MANIFEST

BENERATOR			WAST	E ACCE	PTANCE N	0.
Alaska Clascino Company	-		TRATES			
MAILING ADDRESS		47	t A4 fam	_	7	5765
621) San Pablo Avc		REQUIRE	PERSO	NAL PR	OTECTIVE E	QUIPMENT
CITY, STATE, ZIP Dakland, CA 94608		□ GLOVES	O GOGG		RESPIRATOR	Q HARD HAT
		LI GLUVES	_ GCGG			<u>-</u> · · ·
PHONE		O TY-VEK	O OTHER	a		
(707)337-0999 CONTACT PERSON /		SPECIAL H	ANDUNG	PROCED	UBES:	
Proma Saprial		SPECIAL II	VIADPINAC			
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE					
* 1:01	3/12/04	•			•	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is a waste of delined by 40.0FR Pan 261 or tille 22 of the Castorial code of regulations, certified, classified at its packaged, and is in proper condition for transportation a non-certified, it has a present the certified of the certifie	en tradici in	RECEIVING	S FACILITY VEHICLE I		MBER T	RUCK NUMBER 分为
ADDRESS 320 Devilogie CE City, STATE, ZIP			3	· feek		
Windsor, CA 95492	 -	Ī				
PHONE		END D	JMP	ROLL	OM DUMP	TRANSFER
(7/7)924 1 4/97					<u> </u>	N DRUMS
SIGNATURE OF AUTHORIZED AGENT OR DRIVER	DATE	ROLL	FF(S)	FLAT-E		
* Sunt I was *	\$180			- O	Ļ	. ·
		CUBIC YA	RDS			
I hereby certify that the above named materia accepted and to the best of my knowledge the	al has been e foregoing	DISPOSAL	METHOD:	(TO BE	COMPLETED B	Y LANDFILL)
is true and accurate.		DISCUSAL	MC 15 POD.	, (
The state and the second second			·	DIS	POSE	OTHER
		O SOIL				
REMARKS		O CONST	RUCTION			
FACILITY TICKET NUMBER		O NON-F	PIABLE.			·
SIGNATI IMP OF AUTHORIZED AGENT	DATE	U WOOD				
		D ASH				
*			AL OTHER	 		
4 7.7		_1				

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL - ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST # 1 5 5 1 0