2307 Pacific Avenue, Alameda, CA 94501 Tel (510) 865-9503, Fax (510) 865-1889

March 29, 1995

Ms. Eva Chu Hazardous Materials Program Department of Environmental Health 1131 Harbor Bay Pkwy. 2nd floor Alameda, Ca. 94502-6577

Regarding: 1701 Park St. STID 3836

Dear Ms. Chu,

1 Superimpose former UST+ product line (dupenser on side plan.

@ Call John Degeorge to do she Search.

3 Howe PP removed plan, not just set burn, or pling Keeith has to removal plan monton weeking-pulloot 202. have absorption pump

Please find enclosed correspondence from our consultant Alisto Engineering regarding continued investigation at the referenced site. This letter serves as a response to your January 27, 1995 request.

Also enclosed is the monitoring report for the first quarter of 1995, and free product disposal documentation (note: most of the 60 gallons was purged groundwater).

Sincerely,

6/21/95 - Still no review of other sites or of otility tranches - Johndegeorge will contret Kerth Sumas and get back to muin acomple of weeks

GROUNDWATER MONITORING AND SAMPLING REPORT

Xtra Oil Company Service Station (dba Shell) 1701 Park Street Alameda, California

Project No. 10-210-04-001

Prepared for:

Xtra Oil Company 2307 Pacific Avenue Alameda, California

Prepared by:

Alisto Engineering Group 1777 Oakland Boulevard, Suite 200 Walnut Creek, California

March 24, 1995

John DeGeorge

Project Manager

Al Sevilla, P.E.

Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

Xtra Oil Company Service Station (dba Shell) 1701 Park Street Alameda, California

Project No. 10-210-04-001

March 24, 1995

INTRODUCTION

This report presents the results and findings of the February 24, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at the Xtra Oil Company service station (dba Shell), 1701 Park Street, Alameda, California. A site vicinity map is shown in Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes while recording field readings of pH, temperature, and electrical conductivity. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in each well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for this and previous events are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown in Figure 2. The results of laboratory analysis are shown in Figure 3. The laboratory report and chain of custody record are presented in Appendix B.



SUMMARY OF FINDINGS

The findings of the February 24. 1995 groundwater monitoring and sampling event are summarized as follows:

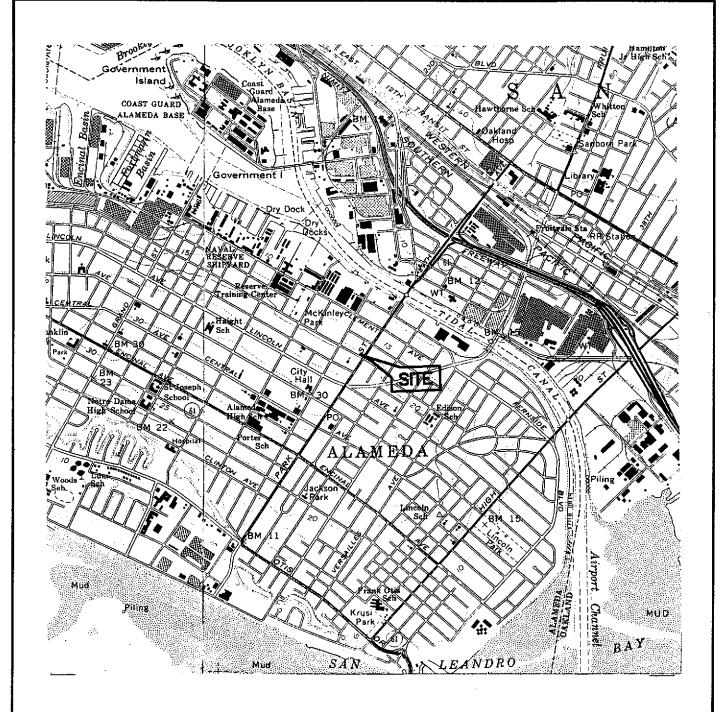
~2'

- Approximately 0.18 foot of free product was observed in MW-2. Free product or sheen was not observed in MW-1 or MW-3.
- Groundwater elevation data indicate a gradient of approximately 0.005 foot per foot in an easterly direction across the site.
- Groundwater analysis detected 56000 micrograms per liter (ug/l) total petroleum hydrocarbons as gasoline (TPH-G), 4400 ug/l total petroleum hydrocarbons as diesel (TPH-D), and 13000 ug/l benzene in MW-1.
- Dissolved-phase petroleum hydrocarbons were not detected in MW-3.



TABLE 2 SUMMARY OF RESULTS OF GROUNDWATER SAMPLING XTRA OIL COMPANY SERVICE STATION 1701 PARK STREET, ALAMEDA, CALIFORNIA

WELL ID	DATE OF MONITORING/ SAMPLING	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	FREE PRODUCT THICKNESS (a)	GROUND WATER ELEVATION (b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-1	11/04/94	19.49	8.64		10.85	60000	6400	13000	4900	1300	5500	MAI
MW-1D	11/04/94					54000		12000	4500	1200	5200	MAI
MW-1	01/11/95	19.49	6.10		13.39							
MW-1 MW-1D	02/24/95 02/24/95	19.49 	6.57		12.92 	56000 43000	4400	13000 8900	7000 4600	1400 970	5100 3300	MAI MAI
MW-2	11/04/94	20.29	9.12	0.16	11.29	là tion						
MW-2 MW-2	01/11/95 02/24/95	20.29 20.29	6.75 7.11	0.18	13.54 13.32		 ND<50 		_	 ND<0.5	 ND<0.5	 MAI
MW-3	11/04/94	20.58	8.92		11.66	ND<50		ND<0.5	ND<0.5			
MW-3	01/11/95	20.58	5.67		14.91				_			
MW-3	02/24/95	20.58	6.11		14.47	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	MAI
TB TB	11/04/94 02/24/95					ND<50 ND<50		ND<0.5 ND<0.5	ND<0.5 ND<0.5	ND<0.5 ND<0.5	ND<0.5 ND<0.5	MA! MAI
ABBREVIA	ATIONS:				NOTES:							
TPH-G	•	nydrocarbons as ((a)	Free product th						
TPH-D		nydrocarbons as o	diesel		(p)	. Groundwater e						
B T	Benzene Toluene			above mean sea level, and adjusted assuming a specific gravity of 0.75 for free product.								
i E	Ethylbenzene					a specific grav	ity of U.75 ic	ir tree produ	Cl.			
X	Total xylenes											
ug/l	Micrograms per	iter.				-						
ND		ove reported deter	ction limit									
D	Duplicate		######################################									
ТВ	Trip blank						-					
MAI	McCampbell Ana	alvtical, Inc.										



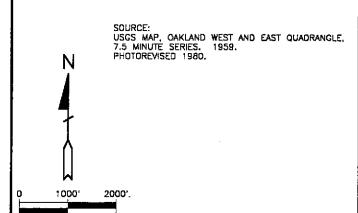
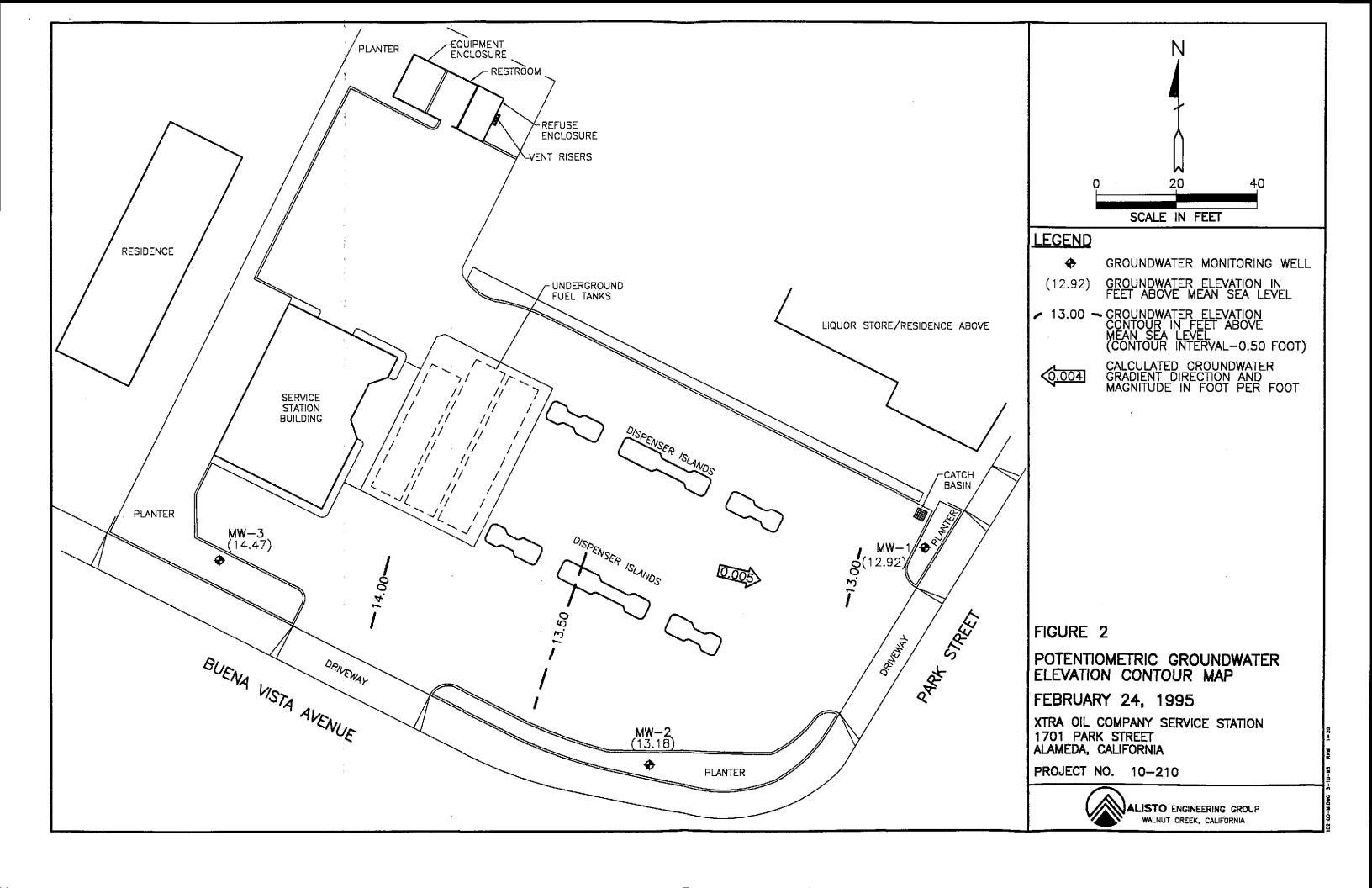


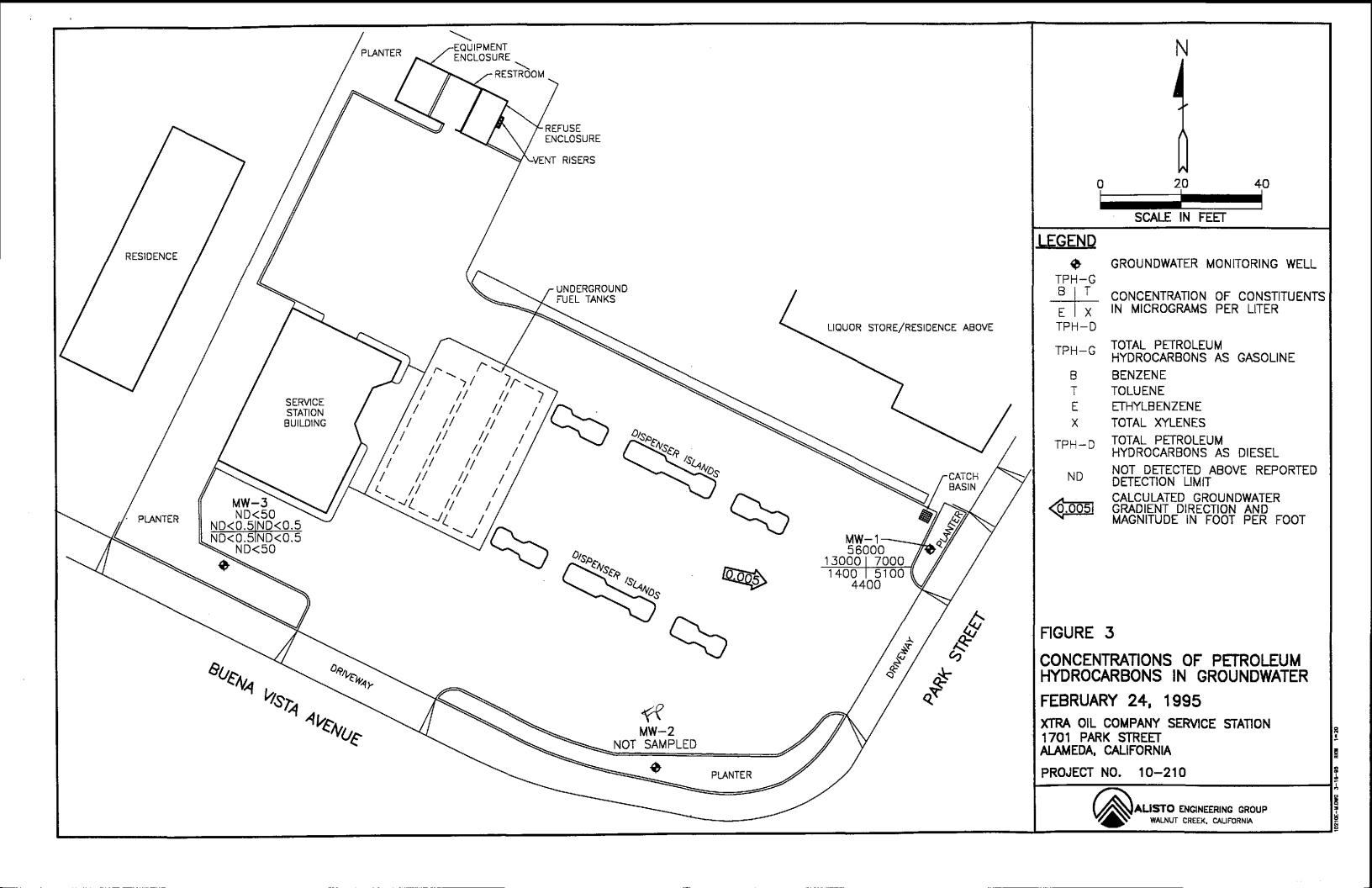
FIGURE 1 SITE VICINITY MAP

XTRA OIL COMPANY SERVICE STATION 1701 PARK STREET ALAMEDA, CALIFORNIA

PROJECT NO. 10-210







APPENDXX A WATER SAMPLING FIELD SURVEY FORMS

Λ		(T	N
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Field Report / Sampling Data Sheet

MLIJIU	& Com	adveter Com	alina	Doto	7-124	10-	Project N	·	10-6	21 001			
ENGINEERING Groundwater Sampling					ate: 2/24/25 Project No. 16-210-04-00/								
GROUP			400						, , ,				
1777 OAKLAND BLVD, ST	E 200	Barometric p	res. 158	-					arh)	+ Alameda, CA			
WALNUT CREEK CA 9459	6 (510) 295-16	50 FAX 295-18	23		SAMPLE	R: <u>M . </u>	cillora						
Well ID SAMPLE #		ime Well ID	SAMPLE	#	WATER/	time	Well	ID	SAMPLE	WATER / time			
MW-3 MW-3	6.11 12:	10					<u> </u>						
MW-1 MW-1	6.57 12:	15											
MW-2 (NONE)	7.11 12:	19		,									
MW-ID						·	· · · · · · · · · · · · · · · · · · ·	······································	<u></u>				
TB							<u> </u>						
			TRUMENT										
Ph METER		7.00				TEM	PERATURE	COMPENSA	ATED (Y	ク N			
TURBIDI METER				₹					-				
CONDUCTIVITY METER		10,000/	OTHER _										
Well ID Depth to Wate	r Diam Cap/Lo	ck Depth to prod.	Iridescence	Gal.	Time	Temp *F	рΗ	E.C.	D.O.	O EPA 601			
M17-3 6.11		· None	YN	2	1:02	65.3	7.25	750		*DKTPH-G/BTEX			
Total Depth - Water Level = x	Well Vol. Factor =	x#vol. to Purge=	PurgeVol.	4	1:06	63.5	7.15	760		TPH Diesel			
19.50-6.11=13.	39 × 0,16 =	2,14×3=6	4921	6	1:10	63.1	7.00	750		O TOG 5520			
Purge Method: OSurface Pump (Time/Sample			
Comments:										1:20/MW3			
Well ID Depth to Wate	r Diam Cap/Lo	ck Depth to prod.	tridescence	Gal.	Time	Temp *F	ρН	E.C.	D.O.	O EPA 601			
MW-1 6,57	2" OK	None	Y (N)	2	1:43	£2.2	7.06	980		18 -TPH-G/BTEX			
Total Depth - Water Level = x		-	~ 1	4	1:47	63.3	6.90	990		TPH Dieset			
20.00-6.57=13.	43×0.16=2	.15×3=6.	500/	6	1.50	63.1	6.84	10C0		Dissalved			
Purge Method: OSurface Pump (Disp.Tube OWincl	h) ØDisp. Bailer(s)_[OSV8 Port							Time/ Sample			
		10 2:00								1:55/MW-1			
	r Diam Cap/Lo		lridescence	Gal.	Time	Temp *F	рН	E.C.	D.O.	Q, EPA 601			
MW-2 7.11	2" OK	6.93	/y' N							TPH-G/BTEX			
	Well Vol. Factor =	x#vol. to Purge=	PurgeVol.							TPH Diesel			
•			Ţ							O TOG 5520			
	· · · · · · · · · · · · · · · · · · ·	Main 0-11-1-1 2	OSvs Port		1					Time /Sample			
Purge Method: OSurface Pümp (DDisp.Tube, OWjncl	ı Yernish regileriki –											
Purge Method: OSurfece Pump Comments: No Sun						***************************************				•			

APPENDIX B LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

Alisto Engineering Group 1777 Oakland Blvd., # 200		Client Pr Park St.,		10-210-04-0	H	Date Sampled: 02/24/95						
1777 Qakiano	1 BIVO., # 200	,			<u> </u>	Date Received: 02/24/95						
Walnut Cree!	k, Ca 94596	Client Co	ntact: John I	DeGeorge]1	Date Extract	ted: 02/24-0	2/26/95				
		Client P.C	D:#	MSA:	# S9402	Date Analyz	ed: 02/24-0	2/26/95				
EPA methods 50	Gasoline Ra				•							
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate				
50450	MW-3	w	ND	ND	ND	ND	ND	94				
50451	MW-1	w	56,000,a	13,000	7000	1400	5100	93				
50452	MW-ID	w	43,000,a	8900	4600	970	3300	97				
50453	ТВ	W ND		ND	ND	ND	ND	96				
:												
								<u> </u>				
		_										

50 ug/L

1.0 mg/kg

W

S

0.5

0.005

0.5

0.005

0.5

0.005

0.5

0.005

Detection Limit unless other-

wise stated; ND means Not Detected

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Alisto Engineering Group				210-04-001; 1701	Date Sampled: 02/24/95					
1777 Oakland	l Blvd., # 200	Park St., A	Alameda		Date Received: 02/24/95					
Walnut Creel	k, Ca 94596	Client Co	ntact: John DeC	leorge	Date Extracted: 0	2/24/95				
		Client P.C):#	MSA: # S9402	Date Analyzed: 0	2/24-02/25/95				
EPA methods m	Diesel 1 odified 8015, and 3550	as Diesel * GCFID(3550) or GCF	FID(3510)							
Lab ID	Client ID	Matrix		TPH(d) ⁺		% Recovery Surrogate				
50450	MW-3	w		ND		97				
50451	MW-1	w		4400,d,b		98				
	_									
	imit unless other-	W		50 ug/L						
	; ND means Not etected	S		10 mg/kg						

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(cL) or heavy(cH) diesel compounds are significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/24-02/25/95 Matrix: Water

	Concent	ration	(ug/L)		% Reco	<u> </u>	
Analyte	Sample MS		MSD	Amount Spiked	MS	MSD	RPD
TPH (gas) Benzene	0.0	101.3		100	101.3	101.4	0.1
Toluene	0	9.9 9.9	9.9 9.8	10 10	99.0	99.0	0.0
Ethyl Benzene	o	9.9	9.7	10		98.0 97.0	1.0
Xylenes	0	30.8	30	30	102.7	100.0	2.6
TPH (diesel)	. 0	153	145	150	102	97	5.3
TRPH (oil & grease)	N/A N/A		N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) $\times 2 \times 100$

ALISTO ENGINEERING GROUP

CHAIN OF CUSTODY

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	<u> </u>								· ·			.,					,		Page / of /
Consultant's Name:	Alist	0 /191	neeg	ring	<u> </u>	- C	<u></u>	~; A											
Address:	1777	Oaklare D	(<u>Bl</u>	val vu	valka '		eose,		:10-	210	.124-	001		1	hone #	:510-7	295-	16Sa Fa	x H: 510-275-1823
Project Contact: 5	Tohn	Ve Ge	orge	<u> </u>		Const	Mant P	rojeci #	7/	7	Q	Z.	1//			******			
Sampled by (print):				lora	<u>^</u>		ler's Si			Leve	4		el l	-	Sit	e Local	ion: /'7	or Park	St Alamela C
Shipment Method:		deliver		·		<u> </u>	Site Lo	ention A	<u>':</u>		LYSIS	REOU						Samp	St Alameda Condition as Received
TATE 124 hr	48 hr	72 115	× s	tandard (10 day)								1		1	 1			peralure * C: er #:
						M e			[.	13.30	٠,			¥			1	Inbo	und Scal Yes No
						7873 57802	اري ي <u>ن</u> ا	8		12/1	28		<u> </u>	İ				Out	ound Seal Yes No
Sample Description	Collection	Matrix	Prsv	# of		/GAS/BTEX 8015/8020	TPH/Diesel EPA 8015	2 22	HVOC 8010	至 \$	1 3 10 3								сомментя
	Date/Time	Soil/Water		Cont	Sample #	TPH// EPA	TPH. EPA	S 0 1	0108 8010	P 4	£ {								
10/1/-	- 	Water		<u> </u>	MW-3	×	V											i	50450
Waternw3	1:20	1			MW-1	7	×			X									50451
waternwi	1:55	 - 		1	W-10		7	10°.	- 42 PM	. 1								<u> </u> ;	
Deplicate MWI	1:35			3	TB	×		THE	1					l 					50452
Trip Blank	2.00			- <u>-</u> -														<u></u> j	50453
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		.	<u> </u>			-			ICE/T	CONI	TION!	1	J AF	DSENVI BROPR	HIVE INTE		7		
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