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## GROUNDWATER MONITORING AND SAMPLING REPORT

Pacific Gas and Electric Company Oakland Power Plant 50 Martin Luther King, Jr. Way Oakland, California

PG&E Project No. 0530-EC Alisto Project No. 10-179

### GROUNDWATER MONITORING AND SAMPLING REPORT

Pacific Gas and Electric Company Oakland Power Plant 50 Martin Luther King, Jr. Way Oakland, California

PG&E Project No. 0530-EC Alisto Project No. 10-179-01-003

### Prepared for:

Pacific Gas and Electric Company 3400 Crow Canyon Road San Ramon, California

### Prepared by:

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

April 28, 1994

Brady Nagle

Project Manager

Al Sevilla, P.E.

Principal



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#### GROUNDWATER MONITORING AND SAMPLING REPORT

Pacific Gas and Electric Company Oakland Power Plant 50 Martin Luther King, Jr. Way Oakland, California

TESA Project No. 0530-EC Alisto Project No. 10-179-01-003

April 28, 1994

#### INTRODUCTION

This report presents the results and findings of the April 11 and 20, 1994 groundwater monitoring and sampling conducted by Alisto Engineering Group at Pacific Gas and Electric Company's Oakland Power Plant, 50 Martin Luther King Jr. Way, Oakland, California. A site vicinity map is shown in Figure 1.

#### **FIELD PROCEDURES**

Field activities were performed in accordance with the procedures and guidelines of the 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. The survey data and groundwater elevation measurements collected to date are presented in Table 1. The field procedures for groundwater monitoring well sampling are presented in Appendix A.

#### SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for this and previous quarters are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown in Figures 2 and 3. The results of groundwater analysis are shown in Figure 4. The field procedures for chain of custody documentation, laboratory reports, and chain of custody records are presented in Appendix B.



### SUMMARY OF FINDINGS

The findings of the April 11 and 20, 1994 groundwater monitoring and sampling event are summarized as follows:

- Free product was not observed in any of the groundwater monitoring wells.
- Groundwater elevation data collected on April 11, 1994 indicate a gradient of 0.004 foot per foot in a southwest direction, and groundwater elevation data collected on April 20, 1994 indicate a gradient of 0.003 foot per foot in a northwest direction.
- Total petroleum hydrocarbons as diesel (TPH-D) were not detected above the reported detection limit in the samples collected from wells MW-1-3 or MW-2-3. TPH-D was detected at a concentration of 600 parts per billion in the sample collected from MW-1-2.
- Benzene, toluene, ethylbenzene, and total xylenes analysis detected only total xylenes at a concentration of 0.5 ppb in the groundwater sample collected from well MW-1-3.

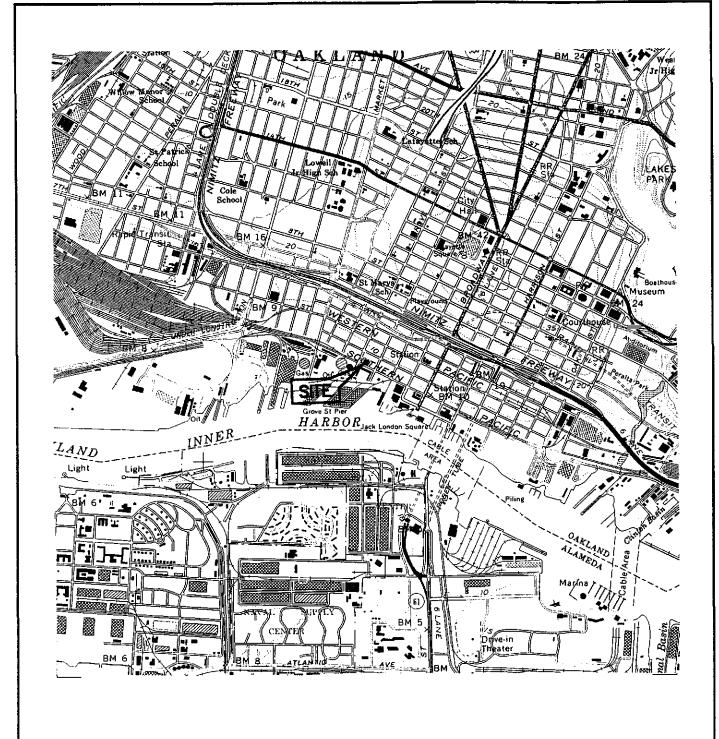


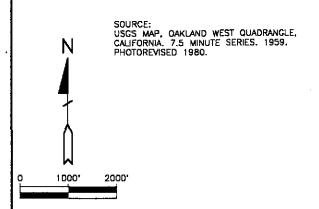
## TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING PACIFIC GAS AND ELECTRIC COMPANY'S OAKLAND POWER PLANT 50 MARTIN LUTHER KING, JR. WAY, OAKLAND, CALIFORNIA

### ALISTO PROJECT NUMBER 10-179

<b>WELL</b> ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-D (ppb)	B (ppb)	T (ppb)	(ppb)	X (ppb)	LAB
MW-1-2		06/22/93	13.95	5.05	8.90		1500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ÇHR
MW-1-2		09/22/93	13.95	5.91	8.04		240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
QC-1	(c)	09/22/93			-			ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-1-2		12/28/93	13.95	4.77	9.18		200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
QC-1	(c)	12/28/93	•-•					ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-1-2		04/11/94	13.95	4.66	9.29			ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
QC-1	(c)	04/11/94	***	***				ND<0.5	ND<0.5	ND<0.5	ND<0.5	
MW-1-2		04/20/94	13.95	4.86	9.09		600	~	_			CHR
MW-1-3		06/22/93	14.01	5.15	8.86		160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-1-3		09/22/93	14.01	5.57	8.44		430	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-1-3		12/28/93	14.01	5.13	8.88		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-1-3		04/11/94	14.01	5.01	9.00			ND<0.5	ND<0.5	ND<0.5	0.50	CHR
MW-1-3		04/20/94	14.01	5.09	8.92		ND<50				_	CHR
MW-2-3		06/22/93	13.91	5.00	8.91		560 G	F) 3.1	ND<0.5	ND<0.5	ND<0.5	CHR
MW-2-3		09/22/93	13.91	5.50	8.41		460	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-2-3		12/28/93	13.91	4.74	9.17		ND<50 ((	d) <b>³</b> ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-2-3		04/11/94	13.91	4.62	9.29		`	✓ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
MW-2-3		04/20/94	13.91	4.83	9.08		ND<50					ÇHR
QC-2	(e)	06/22/93		***			ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
QC-2	(e)	09/22/93						ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
QC-2	(e)	12/28/93						ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
QC-2	(e)	04/11/84	`· <del></del>					ND<0.5	ND<0.5	ND<0.5	ND<0.5	CHR
ABBREVI	ATION	NS:				Ю	TES:					
TPH-D		Total petroleum	hydrocarbons as d	iesel		(a)	Т	Fop of casing e	elevations sur	veyed relative	to mean sea l	evel.
В		Benzene	•			• •		, ,		-		
Т		Toluene				(b)	(	Broundwater e	levations in fe	et above mea	n sea level.	
Ē		Ethytoenzene										
Х		Total xylenes				(c)	E	Blind duplicate				
ppb		Parts per billion						Free Company of the Company		gaganga sasansaga ngan-	and we made the comment of	
		Not analyzed/ar			Marine .	(d)		Motor oil at a c	oncentration o	of 2.9 mg/l det	ected in samp	le.
ND			or above reported	detection limit					And the second of the second			
CHR		Chromalab, Inc.	i			(e)	7	Fravel blank.				

(f) 3.1 mg/L motor oil





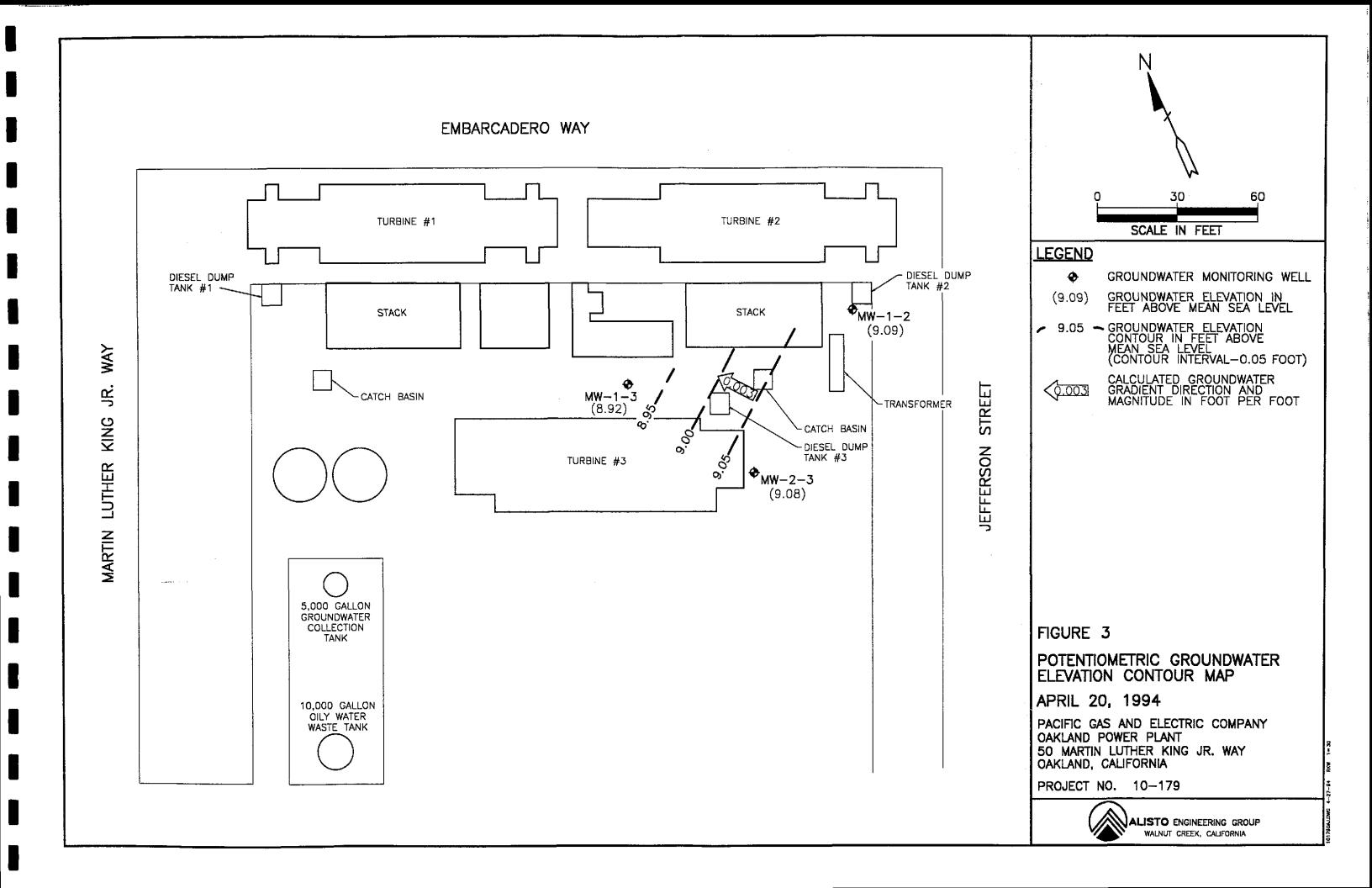
### FIGURE 1

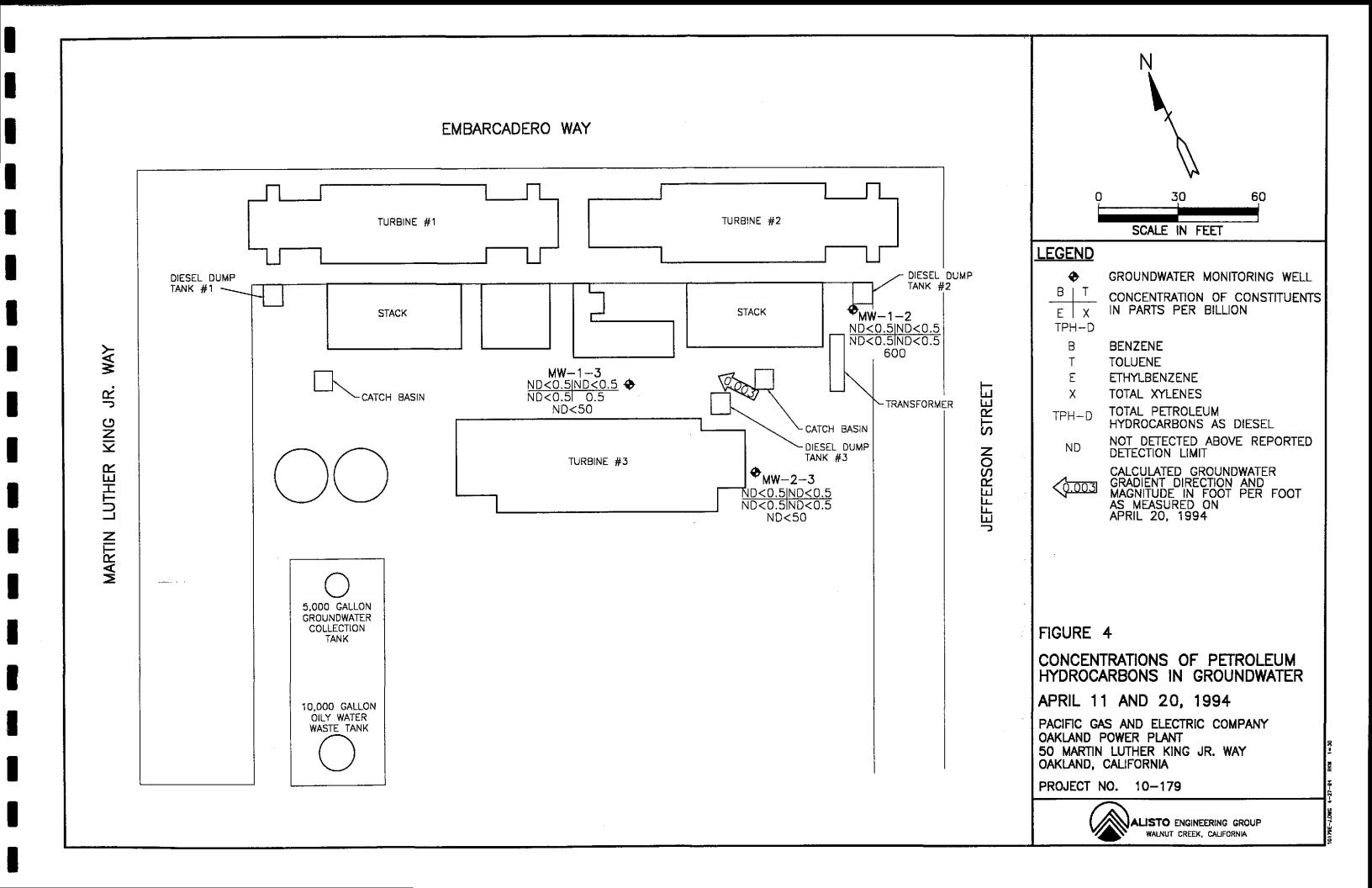
### SITE VICINITY MAP

PACIFIC GAS AND ELECTRIC OAKLAND POWER PLANT 50 MARTIN LUTHER KING JR. WAY OAKLAND, CALIFORNIA

PROJECT NO. 10-179







### APPENDIX A

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FIELD PROCEDURES FOR GROUNDWATER MONITORING WELL SAMPLING AND WATER SAMPLING FIELD SURVEY FORMS

# FIELD PROCEDURES FOR GROUNDWATER MONITORING WELL SAMPLING

### Groundwater Level Measurement

Before commencing groundwater sampling activities, the groundwater level in each well was measured from the marked survey reference point at the top of the well casing. Groundwater in each well was monitored for free product or sheen. The depth to groundwater was measured to an accuracy of 0.01 foot from the top of the polyvinyl chloride well casing using an electronic sounder.

### Groundwater Monitoring Well Sampling

To ensure that the groundwater sample was representative of the aquifer, the wells were purged of 3 well casing volumes before sample collection unless the monitoring well would not produce sufficient groundwater. This purging was accomplished using a clean bailer or pump.

The groundwater samples were collected using a disposable bailer, and then carefully transferred into laboratory-supplied containers. Care was taken to avoid turbulence when transferring the water samples, and all volatile analysis vials were filled so that no air bubbles were trapped. The sampling technician wore nitrile gloves at all times during purging and well sampling. The samples were clearly labeled with the well number, site identification, date and time of sample collection, and sampler's initials, and transported in an iced cooler maintained at 4 degrees Centigrade to a California-certified laboratory following proper preservation and chain of custody protocol.

### ALISTO ENGINEERING GROUP GROUNDWATER MONITORING

Client: PG E

Alisto Project No: 10-179-01-003

Service Station No: DAKLAND

FIELD ACTIVITY:

Groundwater Monitoring XGroundwater Sampling Well Development Date: 4-11-94 Field Personnel: AJB

Site Address: 50 MLK JR WAY

DAKLAND

QUALITY CONTROL SAMPLES:

MW/-2QC-1 Sample Duplicate (Well ID)

QC-2 Trip Blank QC-3 Rinsate Blank

Well ID	Well Diam	Order Measured/ Sampled	Total Depth	Depth to Water	Depth to Product	Product Thick- ness	Comments
MN2-3	4	1/1	13.30	4.62	_		
ANICZ	4	3/3	13.62	4:66		,	061
MW/-3		2/2	7.24				
				-		-	

Notes:

Client: PGE Alisto Project No: 10 - 17 Service Station No:			A		リレイゴ	RWA			
Well ID: 1-3 Field Acti	<u>vity:</u> Wel	l Development 💢 ell	Sar	npling	Produ	ct Bailing			
Casing Diameter:	Purge Me	thod:	W	ell Data:					
2 Inch (0.16 Gal/foot)									
Sampling Method:  Disposable Bailer Pump	Trip	nination Method: le Rinse (Liquinox) m Cleaned	/	MW-	-1-3	?			
Calculated Purge Volume 7.24 - 5.01  Total Depth Depth to of Well Water	= <b>2·O</b> ft ) Water Column		<b>5</b> (	, vo	s to	Y-34 Total Volume			
Well Development/Sa	mpling Para	meters							
Time Temp pH Cou	nhos Voi	Comments/ Turbidity		alysis quired	Contai ner Type	Preserv			
1330 67.9 7.26 2	.17 1	101.7 NT U'S	×	TPH-	VOA	HCL			
	.17 3	/25./	X	TPH- Qiesel	Amber Liter	Solvent Rinsed			
1343 69:0 7:27 2	17 5	10715		EPA 601	VOA				
1313				TOG 55208F	Amber Liter	H.SO.			

Clie Alis Serv	to Proj	PGE ect No ation N	: 10-	179-0	1-00	3		Date: \(\begin{aligned} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	onnel: MLL	Jr BI	.VD.	
<u>Wel</u>	1 ID: N	W2-3 <u>f</u>	<u>ield A</u>	<u>cctivity</u> :	We	ll Development	Well S	ampling	Produ	(L <b>AND</b> ct Bailing	;	
Cas	ing Di	ameter:		Pu	irge Me	ethod:		Well Data	:			
又	2 Inch (0.16 Gal/foot)											
San		Metho		<u>D</u>	Trip	nination Method: ole Rinse (Liquino: om Cleaned	<b>x</b> )	Mn	1-2-3	3		
To	3.30 al Dep Well		<u>V-62</u> epth t ater	o V	/ater lolumn	Factor	5.64 Casing V	OT AC	Sols to	Volume	•	
	Time	Temp °F	рH	Cond. (umhos /cm)	Purge Vol (Gal)	Comments/ Turbidity		Analysis Required	Contai ner Type	Preserv		
	1250	68.7	6.98	[183	3	1935NTOE	Þ	G/BTEX	VOA	HCL		
_	1253	67.8	7.02	1.81	4	191.7 Nto	5	TPH- Diesel	Amber Liter	Solvent Rinsed		
				2.00	10	161.3 Ntus		EPA 601	VOA	1150		
								TOG 55108F	Amber Liter	н,≤О,		
_	P	pose	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	uy (	a) ti	qallons	fl	unu vec	harge	L Len		
-		m xb n	<del></del>									

2 Inch 3 Inch 4 Inch 4.5 Inch	(0.16 (0.37 (0.65 (0.65 (	Gal/fo		Wei	Development	(Well Sar	npling	Produ	ct Bailing
2 Inch3 Inch4 Inch4.5 Inch	(0.16 ( (0.37 ( (0.65 (	Gal/fo	<u>P</u> 1	urge Me		•	-		
3 Inch  4 Inch  4.5 Inch	(0.37 (		_		thod:	<u>w</u>	ell Data:		
	(0.83 (	Gal/Fo Gal/fo	oot) _ oot) _ oot) _	Dispos Other 1.66 P	(dispos. Poly Tubi sable Bailers VC Standard Bailer VC Standard Bailer	<u>√-1</u>	Produc 7 Depth		ness T
Sampling	<u>Metho</u>	<u>d</u> :	<u>r</u>	econtar	nination Method:		MW	-/-	
Dispo:	sable B	ailer	· _		le Rinse (Liquinox) m Cleaned	)			
Calculated /3:62 Total Dep of Well Well D	th De	y - 77 epth to ater	o V	Vater	Factor	Casing Vo	Pu	rge	Volume
Time	Temp °F	pН	Cond. (umhos /cm)	Purge Vol (Gai)	Comments/ Turbidity		alysis quired	Contai ner Type	Preserv
1412	66.0	7.17	108	6	27.1	×	#PHA #/BTEX	VOA	HCL
[+19		7.15	(.07	12	29,1	×	TPH- Diesel	Amber Liter	Solvent Rinsed
11	V F '		(.10		47.1		EPA 601	VOA	
	<u> </u>	- 2	<del>`</del>				TOG 55208F	Amber Liter	H'èO'
	·								

### ALISTO ENGINEERING GROUP GROUNDWATER MONITORING

Client: PGE

Alisto Project No: 10-179-01-003

Service Station No: OAKLWD

FIELD ACTIVITY:

Groundwater Monitoring Groundwater Sampling X Well Development Date:

4-20-94

Field Personnel:

DUBUL

Site Address:

MLK

QUALITY CONTROL SAMPLES:

№ 0 QC-1 Sample Duplicate (Well ID)

QC-2 Trip Blank

QC-3 Rinsate Blank

Well Diam	Order Measured/ Sampled	Total Depth	Depth to Water	Depth to Product	Product Thick- ness	Comments	TIME
ď	1/1	12-30	4.33			Mun-2-3	TIME SAMPLED
	1,	70-	7 00			7100	
4"	2/2	/3-62	4.86			MW-1-2	1345
400	3/3	7.24	5.09			MW-1-3	1414
		·					
	Diam  #	Diam Measured/Sampled  4 1/1  4 2/2	Diam   Measured   Depth	Diam Measured/ Depth to Water    1/1 13-30 4.83	Diam   Measured   Depth   to   Water   Product	Diam Measured/ Depth to Water Product ness  I/I 13-30 4.83  H" 2/2 13-62 4.86	Diam   Measured   Depth   to   Water   Product   Thick-ness

Notes:

Client: PGE Alisto Project No: Service Station No: OAK		Date: 4-20-94 Field Personnel: DJB12CY Address: 50 MCK									
Well ID: 1-3 Field Acti	vity: Well Development XW	rell Sampling Product Bailing									
Casing Diameter:	Purge Method:	Well Data:									
2 Inch (0.16 Gal/foot)											
Sampling Method: Disposable BailerPump	Decontamination Method:  Triple Rinse (Liquinox) Steam Cleaned	MW - 1 - 3									
Total Depth Depth to of Well Water	Water Conversion Casi Column Factor	$\frac{3}{\log \text{ Vol}} \text{ Gal X } \frac{3}{\text{Vols to}} = \frac{4.19}{\text{Total}}$ Purge Volume									
Well Development/Sa	mpling Parameters										
I time I tomb   Part	nd. Purge Comments/ nhos Vol Turbidity n) (Gal)	Analysis Contai Preserv Required ner . Type									
1404 64-7 7-31 2	-19 / //0-7 Nt05	TPH- VOA HCL									
1409 68.9 7.27 2		TPH- Amber Solvent Diesel Liter Rinsed									
1414 69.1 7.29 2	19 4 111.1	EPA 601 VOA									
		TOC Amber H.SO, 5520BF Liter									

lient: \text{\text{listo Projects}} ervice States	ect No:	: 10-1 o: 08	.79-01 KKLHA	-003 11		Fi	eld Perso		9 d DJB K Jr. BLVB
Vell ID:	WIZE	ield A	ctivity:	We	ll Development XW	ell Sar	npling	Produ	ct Bailing
asing Di	ameter:		Pu	irge Me	ethod:	<u>w</u>	ell Data:		
2 Inch 3 Inch 4 Inch 4.5 Inch 6 Inch	i (0.37 ( i (0.65 ( h (0.83 (	Gal/fo Gal/F Gal/fo	oot) oot) oot)	_Dispo: _Other _1.66 P	(dispos. Poly Tubing) sable Bailers VC Standard Bailer VC Standard Bailer	ــ ۱٠ <u>٩٤</u>		to Prod et Thicks to Wate	ness
Sampling  Lispo Pump	sable B		<u>D</u>	Trip	nination Method:  ble Rinse (Liquinox)  am Cleaned		W.	W- 1	-2
Total Deport	oth Do	epth t ater	$\frac{2}{0} = \frac{1}{V}$	Vater Column	X -65 Gal/Ft = 5.7 Conversion Casin Factor ameters	7 (ng Vol	L 40	s to	17, D Total Volume
Time	Temp °F	рН	Cond. (umhos /cm)	Purge Vol (Gal)	Comments/ Turbidity	_	alysis quired	Contai ner Type	Preserv
1331	65-3	7.21	1.07	L	29.4		TPH- G/8TEX	VOA	HCL
	646	7.17	1.06	12	25-2	×	TPH- Diesei	Amber Liter	Solvent Rinsed
11	64.5		1.07	17	20.7		EPA 601	VOA	
.5,5							TOG 55108F	Amber Liter	H <sub>2</sub> SO,

Alist	o Proj	GE ject No ation N	: lo- 'o: 01	· 179-1	01-00 UD	93	F	ate: 4 eld Perse ddress:	onnel: 、	Daria	≥cH	
<u>Well</u>	<u>ID: 2</u>	<u>-3</u> F	ield A	ctivity:	We	Il Development	<b>X</b> Well Sa	npling	Produ	ct Bailin	g	
Casi	ng Di	ameter:	;	Pu	rge Me	thod:	<u> 14</u>	ell Data:	:			
$\overline{X}_{4}^{3}$												
Sam	pling	Metho	<u>d</u> :	<u>D</u>	econtar	nination Method:		MW	-2-	3		
<u>×</u>	Dispo Pump	sable B	lailer	<del>-</del>		ole Rinse (Liquinox im Cleaned		1 •				
Tota of V	3-30 al Dep Vell	oth D W	y · § 3 epth to ater	o V	/ater :olumn	Factor	5-5 Casing Vo	T AO	3 = ls to rge	Volume		
	Time	Temp °F	рH	Cond. (umhos /cm)	Purge Vol (Gal)	Comments/ Turbidity		nalysis equired	Contai ner Type	Preserv		
	300	3	697	1.79	3	175.1 NTO	<b>.</b>	TPH- G/BTEX	VOA	HCL.		
	305	6	6.95	1.84	ط	165.2	×	TPH- Diesel	Amber Liter	Solvent Rinsed		
·	1310	9	<b>└</b>	1.89	9	163.2		EPA 601	VQA			
-								TOG 5520BF	Amber Liter	H.SO.		
-												
<u>[</u>		Pu	wd	dvy	at	9 gallons	. 0	Now	d rec	charg	۷	
_		brie	<u>ا ا</u>	ල ්	amp	9 gallons ling.	<del>.</del>	-			<u> </u>	

### APPENDIX B

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION, LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS

# FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION

The samples collected were handled in accordance with the California Department of Health Services guidelines. Each sample was labeled in the field, and immediately stored in coolers and preserved with blue ice for transport to a state-certified laboratory for analysis.

The official chain of custody record accompanied the samples, and included the site and sample identification, date and time of collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

Environmental Services (SDB)

April 22, 1994

ChromaLab File#: 9404144

ALISTO ENGINEERING GROUP INC

Atten: Bill Howell

Project: PGE-MLK-OAKLAND

Received: April 13, 1994

re: 5 samples for BTEX analysis.

Matrix: WATER

Sampled on: April 11, 1994

Method: EPA 602

Analyzed on: April 15, 1994

Project#: 10-179-01-003

Run#: 2670

Lab # SAMPLE ID	Benzene (ug/L)	Toluene	Ethyl Benzene (ug/L)	Yylenes (ug/L)
48906 MW2-3	N.D.	N.D.	N.D.	N.D.
48907 MW1-2	N.D.	N.D.	N.D.	N.D.
48908 MW1-3	N.D.	N.D.	N.D.	0.50

Matrix: WATER

Sampled on: April 11, 1994

Method: EPA 602

Analyzed on: April 21, 1994

Run#: 2713

Lab # SAMPLE ID	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/ <u>L)</u>
48909 QC-1	N.D.	N.D.	N.D.	N.D.
48910 QC-2	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS BLANK BLANK SPIKE RECOVERY(%)	0.5	0.5	0.5	0.5
	N.D.	N.D.	N.D.	N.D.
	102	114	102	111

ChromaLab, Inc.

Jack Kelly

Chemist

Eric Tam

Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583 510/831-1788 • Facsimile 510/831-8798

**DOHS 1094** 

Chain of Custody

DATE 4-13-94 PAGE OF

PROJ MGR BILL HOWELL		ANALYSIS REPORT	
PROJUMEN DICC PROGESTORIALE	1	S	
ADDRESS 1777 DAKLAND BLVD WALNUT CREEK		7 TICS (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	S S S
ADDRESS CHIZ CON DEVE	(5) (1020-801 02, 8020)	DMA1 B0209 B0200 B000 B000 B000 B000 B000 B000 B000 B000 B000 B000 B000 B000 B000 B0	TAIN I
l	015) 602,	3550, 440, 5 80 10) HALL (10) 10) 10) 10) 10) 10) 10) 10) 10) 10)	SON
SAMPLERS (SIGNATURE) (PHONE NO.)	Gasolin 5030, 80 Casoli X (EPA	3510/3550, 8015; 3EABLE AROMATI (EPA 602, 8020) 3EABLE HALOCAF 601, 8010) ATILE ORGANICS 624, 8240, 524.2) ATILE ORGANICS 625/627, 8270, 5; AL OIL & GREASE 5520, 8+F, E+F) 608, 8080) AL OIL & GREASE 5520, 8+F, E+F) 608, 8080) AL OIL & GREASE 80CARBONS (EP) ALS: Cd, Cr, Pb, Z ALS: Cd, Cr, Pb, Z ALS: (13) AL LEAD ACTION P, STLC)	9 9
Dul 295,1650	2 5 G X	FURGEABLE AROMATIC BTEX (EPA 502, 8015) PURGEABLE AROMATIC BTEX (EPA 602, 8020) PURGEABLE HALOCARI (EPA 601, 8010) VOLATILE ORGANICS (EPA 624, 8240, 524.2) BASE/NEUTRALS, ACID (EPA 625/627, 8270, 52 TOTAL OIL & GREASE (EPA 5520, 8+F, E+F) PCB (EPA 608, 8080) PESTICIDES (EPA 608, 8080) TOTAL RECOVERABLE HYDROCARBONS (EPA METALS: Cd, Cr, Pb, Zn TOTAL LEAD TOTAL LEAD EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS
SAMPLE ID. DATE TIME MATRIX PRESERV.	TPH - Gasoline (EPA 5030, 8015) TPH Gasoline (EC	(EPA 3510/3550, 8015) PURCEABLE AROMATICS BTEX (EPA 602, 8020) PURCEABLE HALOCARBONS (EPA 601, 8010) VOLATILE ORGANICS (EPA 624, 8240, 524.2) BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525) TOTAL OIL & GREASE (EPA 5520, 8+F, E+F) PCB (EPA 608, 8080) PCB (EPA 608, 8080) TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1 AFTALS: Cd, Cr, Pb, Zn, Ni CAM METALS (17) PRIORITY POLLUTANT METALS (13) TOTAL LEAD  EXTRACTION (TCLP, STLC)	NO.
MW2-3 4/1/11 W HOP	X	$\times$	Ų
MW1-2 1			U
	X		
MW1-3	X	<u> </u>	ų ų
Q(-1 Q(-2 V V	X		3
01-2 4	X		1
			-
	} }		
	<del>  </del>		
PROJECT INFORMATION SAMPLE RECEI		ELINQUISHED BY 2. RELINQUISHED BY 2. RELINQUISHED	BY 3.
10-179-01-003 TOTAL NO. OF CONTAINERS	16	ICHOURE) (SIGNATURE) (TIME) (SIGNATURE)	(TIME)
PROJECT NUMBER PGE-MLK-DAKIAM RECD GOOD CONDITION/COI		(SIGNATURE) (TIME) (SIGNATURE)	(TIME)
P.O. # ACTA CC	LD -	RINTED NAME) (DATE) (PRINTED NAME) (DATE) (PRINTED NAME)	(DATE)
STANDARD	<u>,                                     </u>	COMPANY) (COMPANY) (COMPANY)	
TAT 5-DAY 24 48 72	OTHER	ECEIVED BY 1. RECEIVED BY 2. RECEIVED BY (L	ABORATORY) 3
SPECIAL INSTRUCTIONS/COMMENTS:			27
0530-EC		IGNATURE) (TIME) (SIGNATURE) (TIME) (SIGNATURE)	((TIME)
0330.20		PRINTED NAME) (DATE) (PRINTED NAME) (DATE) (PRINTED NAME)	(DATE)
		! A On key	(Avona lat)
L		OMPANY) (COMPANY) (LAB) /	

Environmental Services (SDB)

April 25, 1994

ChromaLab File No.: 9404241

ALISTO ENGINEERING GROUP INC

Attn: Bill Howell

RE: Three water samples for Diesel analysis

Project Name: PGE-MLK-OAKLAND Project Number: 10-179-01-003

Date Sampled: April 20, 1994 Date Submitted: April 20, 1994 Date Extracted: April 22, 1994 Date Analyzed: April 25, 1994

RESULTS:

Sample I.D. Diesel (µg/L)

MW-1-2 600 MW-1-3 N.D. MW-2-3 N.D.

BLANK SPIKE RECOVERY 84% DETECTION LIMIT 50 METHOD OF ANALYSIS 3510/8015

ChromaLab, Inc.

Alex Tam Eric Tam

Analytical Chemist Laboratory Director

PROJ. MGR. BILL HOWELL

SAMPLE ID.

MW-2-3

MW-1-2

MW-1-3

PROJECT INFORMATION

PROJECT NAME:
PROJECT NUMBER
10-179-01-003

SPECIAL INSTRUCTIONS/COMMENTS:

2239 Omega Road, #1 • San Ramon, California 94583 510/831-1788 • Facsimile 510/831-8798 **Chain of Custody** 

**DOHS 109** 

MATRIX: PRESERV.

NOW

low

None

SAMPLE RECEIPT

OTHER

TOTAL NO. OF CONTAINERS

CONFORMS TO RECORD

REC'D GOOD CONDITION/COLD

**HEAD SPACE** 

ALISTO ENGNEERING

ADDRESS 1777 OAKLAND BLW. WALNUT CAUR

4/20 kg 1310

DATE 4-20-94 PAGE 1 OF ) **ANALYSIS REPORT** METALS: Cd, Cr. Pb, Zn, Ni PURGEABLE AROMATICS BTEX (EPA 602, 8020) NUMBER OF CONTAINERS (EPA 625/627, 8270, 525) BASE/NEUTRALS, ACIDS TOTAL RECOVERABLE HYDROCARBONS (EPA PRIORITY POLLUTANT (EPA 624; 8240, 524.2) TOTAL OIL & GREASE (EPA SS20, B+F, E+F) VOLATILE ORGANICS PESTICIDES (EPA 608, 8080) EXTRACTION (TCLP, STLC) TOTAL LEAD **METALS** (13) RELINQUISHID BY RELINQUISHED BY RELINQUISHED BY (SIGNATURE) (TIME) (PRINTED NAME) RECEIVED BY RECEIVED BY

PRINTED NAME