GROUNDWATER MONITORING AND SAMPLING ANNUAL REPORT

OAKLAND POWER PLANT 50 MARTIN LUTHER KING JR. WAY OAKLAND, CALIFORNIA First Quarter 1997

Prepared for

Pacific Gas and Electric Company

April 1997

Prepared by

EMCON 1433 North Market Boulevard Sacramento, California 95834

Project 0143-117.01

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First Quarter 1997 Monitoring Data

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- 1 Site Location Map
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- 3 Monitoring Well Purging Protocol

1 INTRODUCTION

This report presents data collected during the first quarter 1997 monitoring period at Pacific Gas and Electric Company (PG&E) Oakland Power Plant, 50 Martin Luther King, Jr. Way, Oakland, California (see Figure 1).

2 GROUNDWATER GRADIENT AND DIRECTION

First quarter groundwater levels were measured at PG&E's Oakland Power Plant on February 28, 1997, using an electronic sounding device, and recorded on the monitoring well data form included in Appendix A. The groundwater elevations are summarized in the table. The February data were used in constructing a groundwater contour map (see Figure 2). February water levels ranged from a low of 9.11 feet above mean sea level (MSL) in well MW-1-3 to a high of 9.22 feet above MSL in well MW-1-2. The estimated groundwater gradient is approximately 0.001 foot per foot (ft/ft) to the northwest.

3 SAMPLING, ANALYSIS, AND MONITORING PROGRAM RESULTS

Groundwater samples were collected from wells MW-1-2, MW-1-3, and MW-2-3 on February 28, 1997, consistent with the protocol presented in Figure 3. Samples collected from wells MW-1-2, MW-1-3, and MW-2-3 were analyzed for diesel by the U.S. Environmental Protection Agency (USEPA) Method 3510/8015M. Based on a letter dated January 11, 1996, from Hazardous Materials Specialist, Jennifer Eberle, with the Alameda County Environmental Health Services Department, the analysis for BTEX was eliminated from well MW-2-3, as well as from the field blank. The analysis for BTEX in wells MW-1-2 and MW-1-3 was eliminated in the second quarter of 1994. Field readings from the first quarter 1997 (annual sampling event) monitoring event are recorded on the water sample field data sheets (see Appendix A) and summarized in the table.

The analytical results are discussed below. First quarter 1997 and historical analytical data are summarized in the table. Certified analytical reports and chain-of-custody records are included in Appendix B.

An unknown hydrocarbon in the diesel range was detected in samples collected from wells MW-1-2, MW-1-3, and MW-2-3 at concentrations of 1,800, 1,500, and 610 micrograms per liter (μ g/L), respectively.

4 FIELD AND LABORATORY QUALITY CONTROL RESULTS

Analytical data were evaluated for accuracy and precision based on field and laboratory quality control (QC) sample performance. The field QC consisted of collecting one field blank and analyzing it for diesel.

The field blank was collected to assess the effect of field environments on the analytical results and to identify false positives. No parameters were detected above their respective method reporting limits in the field blank, indicating no adverse effects from sampling or analytical procedures.

The laboratory QC consisted of checking adherence to holding times and evaluating method blanks and matrix spike (MS) results.

Holding times are established by the USEPA and refer to the maximum time allowed to pass between sample collection and analysis by the laboratory. These limits assist in determining data validity. The method blank results are used to assess the effect of the laboratory environment on the analytical results. The MS recoveries are used to assess accuracy.

All analyses were done within the holding times specified by the USEPA. No compounds were detected in the daily method blanks. Recoveries of MS were within the laboratory acceptance limits.

The field and laboratory QC results indicate that the analytical data are of acceptable quality.

0143-117.01

The material and data in this report were prepared under the supervision and direction of the undersigned.

EMCON

C. Isham

Geology Manager C.H.G. 007

elk. Ob

CERTIFIED HYDRO GEOLOGIST

Project Manager

Table Oakland Power Plant First Quarter 1997 Monitoring Data

		Top of	Depth to	Groundwater				Ethyl-	Total
Sample	Sampling	Casing	Groundwater	Elevation	TPHD	Benzene	Toluene	benzene	Xylenes
Designation	Date	(ft/MSL)	(#)	(ft/MSL)	ng/L	ng/L	ng/L	ng/L	ng/L
MW-1-2	06/22/93	13.95	5.05	8.90	1,500 1	<0.5	<0.5	<0.5	<0.5
MW-1-2	09/22/93		5.91	8.04	240	<0.5	<0.5	<0.5	<0.5
Dup	09/22/93		;	-	i	<0.5	<0.5	<0.5	<0.5
MW-1-2	12/28/93		4.77	9.18	200	<0.5	<0.5	<0.5	<0.5
Dup	12/28/93		1	;	i	<0.5	<0.5	<0.5	<0.5
MW-1-2	04/11/94	~~	4.66	9.29	!	<0.5	<0.5	<0.5	<0.5
Dup	04/11/94		;	;	ļ	<0.5	<0.5	<0.5	<0.5
MW-1-2	04/20/94		4.86	60'6	900	;	1	ł	ţ
MW-1-2	06/29/94		5.18	8.77	520	1	;	;	ł
MW-1-2	10/07/94		4.55	9.40	290	ł	i	-	}
MW-1-2	01/03/95		4.11	9.84	1 059	;	l	ļ	i
MW-1-2	03/24/95		3.57	10.38	740 1	1	i	;	1
MW-1-2	96/30/92		4.69	9.26	540	;	l	}	}
MW-1-2	10/12/95		5.35	8.60	230 1	i	1	!	ì
MW-1-2	96/81/10		4.19	9.76	, 009	ł	1	;	}
MW-1-2	96/61/20		4.03	9.92	029	;	ŀ	ł	}
MW-1-2	02/28/97		4.73	9.22	1,800 1	i	i	į	}
MW-1-3	06/22/93	14.01	5.15	8.86	160	<0.5	<0.5	<0.5	<0.5
MW-1-3	09/22/93		5.57	8.44	430	<0.5	<0.5	<0.5	<0,5
MW-1-3	12/28/93		5.13	8.88	<50	<0.5	<0.5	<0.5	<0.5
MW-1-3	04/11/94		5.01	9.00	i	<0.5	<0.5	<0.5	<0.5
MW-1-3	04/20/94		5.09	8.92	<50	1	i	;	1
MW-1-3	06/29/94		5.30	8.71	280 1	į	:	ļ	}
MW-1-3	10/07/94		5.69	8.32	160 1	*	i	;	-
MW-1-3	01/03/95		4.62	9.39	210 1	!	i	1	}

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Table
Oakland Power Plant
First Quarter 1997 Monitoring Data

Page 2 of 3

		Top of	Depth to	Groundwater				Ethyl-	Total
Sample	Sampling	Casing	Groundwater	Elevation	TPHD	Benzene	Toluene	benzene	Xylenes
Designation	Date	(ft/MSL)	(ft)	(ft/MSL)	ng/L	ng/L	ng/L	ng/L	ng/L
MW-1-3	96/30/92		4.89	9.12	231	ļ	1	1	1
MW-1-3	10/12/95		5.43	8.58	190	1	1	;	
MW-1-3	01/18/96		4.72	9.29	240 1		ļ	;	1
MW-1-3	02/19/96		4.41	99.6	290 1		;	;	-
MW-1-3	02/28/97		4.90	9.11	1,500 1	ļ	ļ	8 8 9	*
MW-2-3	06/22/93	13.91	5.00	8.91	560 ²	æ	<0.5	<0.5	<0.5
MW-2-3	09/22/93		5.50	8.41	460	<0.5	<0.5	<0.5	<0.5
MW-2-3	12/28/93		4.74	9.17	<50 3	<0.5	<0.5	<0.5	<0.5
MW-2-3	04/11/94		5.62	8.29	i	<0.5	<0.5	<0.5	<0.5
MW-2-3	04/20/94		5.83	8.08	<50	 	1	ļ	1
MW-2-3	06/29/94		5.14	8.77	920 1,4	<0.5	<0.5	<0.5	<0.5
MW-2-3	10/07/94		5.50	8.41	<50	91	13	9	24
MW-2-3	01/03/95		4.11	08'6	1061	<0.5	<0.5	<0.5	<0.5
MW-2-3	03/24/95		3.47	10.44	110 1	<0.5	<0.5	<0.5	<0.5
Dup	03/24/95		ì	;	;	<0.5	<0.5	<0.5	<0.5
MW-2-3	56/36/90		4.66	9.25	187 '	<0.5	<0.5	<0.5	<0.5
Dup	96/30/92		ì	1	}	<0.5	<0.5	<0.5	<0.5
MW-2-3	10/12/95		5.30	8.61	290	<0.5	<0.5	<0.5	<0.5
MW-2-3	96/81/10		4.15	9.76	370	ì	1	;	1
MW-2-3	96/61/70		3.97	9.94	320 1	1	ŀ	i	ŀ
MW-2-3	02/28/97		4.70	9.21	610	2 a	ţ	ŀ	1
Travel Blank	09/22/93				1	<0.5	<0.5	<0.5	<0.5
Travel Blank	12/28/93				i	<0.5	<0.5	<0.5	<0.5
Travel Blank	04/11/94				i	<0.5	<0.5	<0.5	<0.5
Travel Blank	01/03/95				i	<0.5	<0.5	<0.5	<0.5

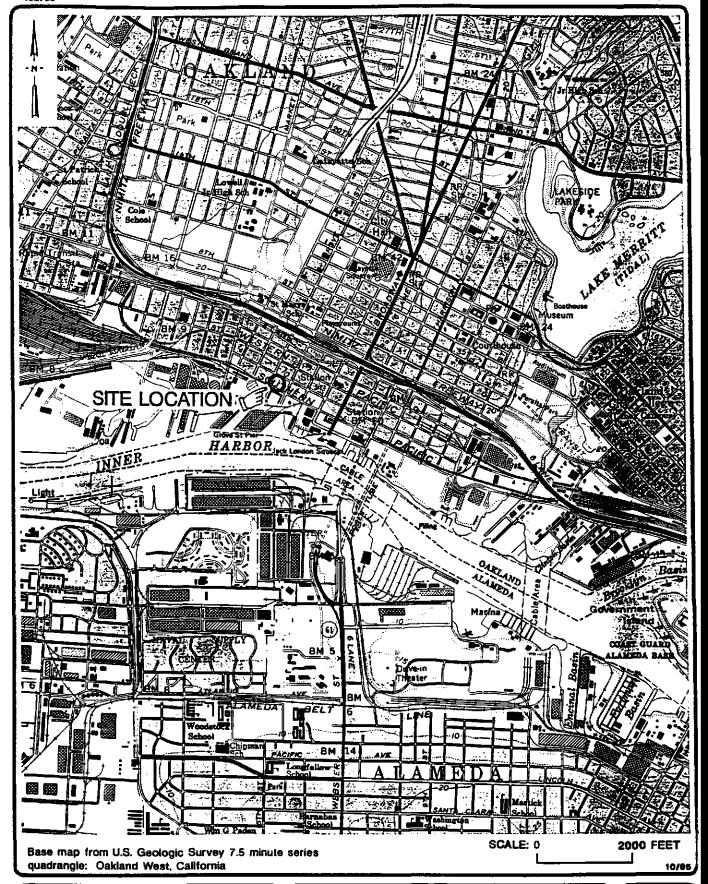
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Table Oakland Power Plant First Quarter 1997 Monitoring Data

Page 3 of 3

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		Top of	Depth to	Groundwater				Ethyl-	Total
Sample	Sampling	Casing	Groundwater	Elevation	TPHD	Benzene	Toluene	benzene	Xylenes
Designation	Date	(ft/MSL)	(ft)	(ft/MSL)	ng/L	ng/L	ng/L	ng/L	ng/L
Travel Blank	03/24/95				1	<0.5	0.5	<0.5	<0.5
Travel Blank	96/30/92				!	<0.5	<0.5	<0.5	<0.5
Travel Blank	10/12/95				i	<0.5	<0.5	<0.5	<0.5
Trip Blank	01/18/96				<50	1	1	i	1
Field Blank	02/19/96				<50	1	1	;	}
Field Blank	02/28/97				<50	:	ŀ	:	:
TPHD = Total petrole	PHD = Total petroleum hydrocarbons as diesel.	diesel.							
ft/MSL = Feet with re	ft/MSL = Feet with respect to mean sea level.	vel.							
ug/L = Micrograms per liter.	er liter.								 '
Dup = Blind duplicate.	ej.								
Unknown hydrocar	Unknown hydrocarbon in diesel range quantified as diesel.	uantified as diesel.							
2 Motor oil at a conce	Motor oil at a concentration of 3.1 milligrams per liter detected in sample.	grams per liter deter	cted in sample.						
B Motor oil at a conce	Motor oil at a concentration of 2.9 milligrams per liter detected in sample.	grams per liter dete	cted in sample.						,
Unknown hydrocari	Unknown hydrocarbon in motor oil range was also observed in sample.	e was also observed	d in sample.						
= Not analyzed.									

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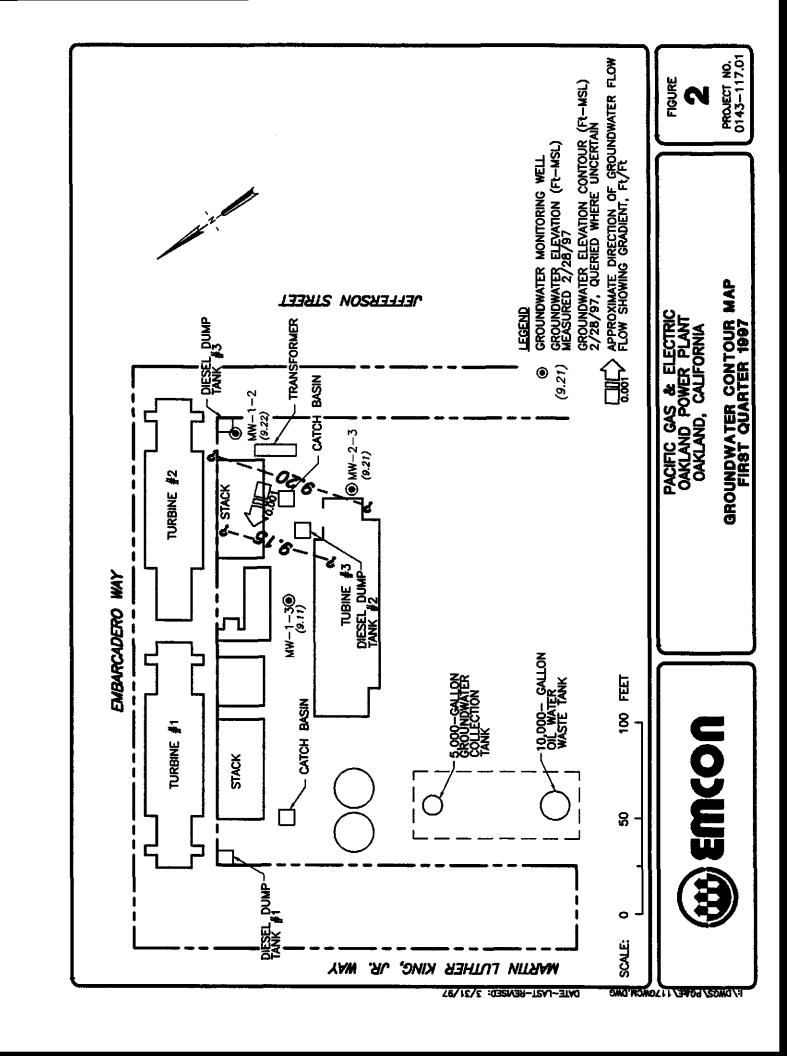
PACIFIC GAS AND ELECTRIC COMPANY
OAKLAND POWER PLANT
50 MARTIN LUTHER KING, JR. WAY
OAKLAND, CALIFORNIA

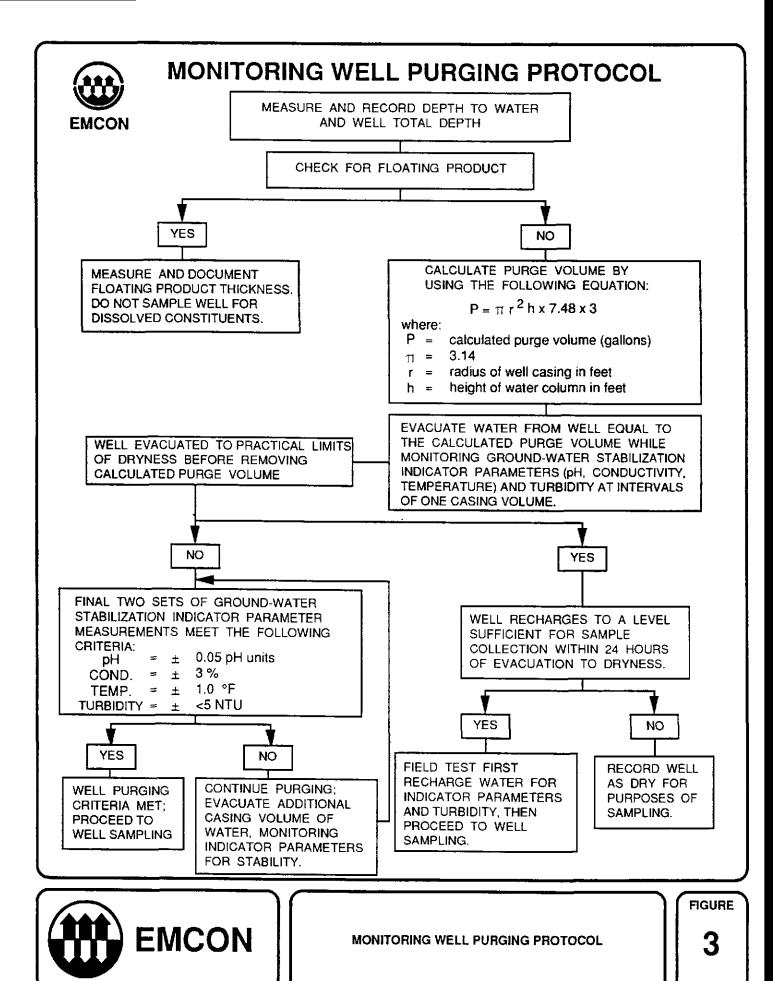
SITE LOCATION MAP

FIGURE

1

PROJECT NO.
0143-117.01





	ield Services	-	_ 1 1	(1 111	,		Historical Monitoring Well Data
1921 Ringwo			Manul	1. Cefelly			PG&E Oakland
San Jose, Ca	litornia			Signa	iture		20143-117.00
Well ID Depth to liqui	Date	Depth to Floating Product (feet)	First Depth to Water (feet)	Second Depth to Water (feet)	Floating Product Thickness (feet)	Well Total Depth (feet)	Comments Total depth: 0.1 for
	10/12/95 02/19/96		5.35 4.03	5.35 4.03	ND ND	13.5 13.5	
MW-1-2			4,73	41.73	N)	13.6	Time: 1020 Lock: 0464
	10/12/95 02/19/96		5.43 4.41	5.43 4.41	ND ND	7.2 7.1	
MW-1-3			4,90	4,90	/\/i)	7,2	Time: 1024 Lock: NONE
	10/12/95 02/19/96		5.30 3.97	5.30 3.97	ND ND	13.3 13.3	
MW-2-3			4,70	4,70	<i>\(\(\)</i>	13.4	Time: 1028 Lock: 3204
<u> </u>							
				*			
							
							<u> </u>
	l .				l		



WATER SAMPLE F	IELD DATA SHEET
EMCON PROJECT NO: 30143-117-001.	
PURGED BY: M. GAILEGOS	
SAMPLED BY:	
	reatment Effluent Other
	<u> </u>
CASING ELEVATION (feet/MSL):	VOLUME IN CASING (gal.): 5,79
DEPTH TO WATER (feet): 41,73	· - ·
DEPTH OF WELL (feet):	ACTUAL PURGE VOL (gal.):
2.78-67	1051 - 1059
	lr) 1054 End (2400 Hr) 1059
	ir) 1110 End (2400 Hr)
TIME VOLUME pH E.C. (2400 Hr) (gal.) (units) (umhos/cm 25	TEMPERATURE COLOR TURBIDITY S'C) ("F) (visual) (visual)
1057 6.0 6.70 1685	60.2 Styldowy mos
<u>well D.x c.t 5.0</u>	
1110 richarge 7,28 179	7 (3.3 1
	S WR A/R
D. O. (ppm): ODOR:	5
Field QC samples collected at this well: Parameters fie	eld filtered at this well: or 0 - 1000)
DUGGING FOURNESST	
PURGING EQUIPMENT 2° Bladder Pump — Bailer (Teflon®)	SAMPLING EQUIBMENT 2° Bladder Pump Beiler (Teffon®)
Centrifugal Pump — Bailer (PVC)	DDL Sampler Bailer (Stainless Steel)
— Submersible Pump — Bailer (Stainless Steel)	Dipper Submersible Pump
— Well Wizard ^{ns} — Dedicated Other:	— Well Wizard ^M — Dedicated Other:
WELL INTEGRITY: OK. REMARKS: CII Samples takes	LOCK#:
REMARKS: CIT Samples Faller	•
Meter Calibration: Date: 2/28/57 Time: 1050 Mete	s Serial #: 9204 Temperature °F. 1, 4-9
(EC 1000 (S) 1 1000) (DI) (PH 7 6951700	2) (pH 10 997 1/000) (pH 4 3981=)
Location of previous calibration:	4
Signature: Manuel 1. uplleger Rev	7
Signature: ////Consult 1. Children Rev	riewed By: Page of

-	244
	3, 2/3
nev.	. 4 2 102
	~

EMCON

WATED SAMDLE

WATER SAMPLE FIL	ELD DATA SHEET
EMCON PROJECT NO: 20143-417:001	SAMPLE ID:
PURGED BY: M. Gallegos	CLIENT NAME: POSF - OAKKAN , POWER
SAMPLED BY:	LOCATION: OAKLAND CA
TYPE: Ground Water Surface Water Treatments	atment Effluent Other
CASING DIAMETER (inches): 234	4.5 6 Other
CASING ELEVATION (feet/MSL):	1011115 11101010 (-11)
· · · · · · · · · · · · · · · · · · ·	
	ACTUAL PURGE VOL. (gal.): 20
DEFIN OF WELL (1664).	ACTUAL FUNGE VOL. (gal.):
DATE PURGED: 2-28-97 Start (2400 Hr)	1114 End (2400 Hr)
	1125 End (2400 Hr)
TIME VOLUME pH E.C. (2400 Hr) (get.) (units) (jumhos/cm @ 25" (·
1115 1.5 7,69 2280	ا حيطة فرينات المستقانات المستقان
will By at 2.0	
1127 richaise 7,70 2070	58.8 1
<u> </u>	
D. O. (ppm):	——————————————————————————————————————
Field QC samples collected at this well: Parameters field	(COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)
NR -	NR
PURGING EQUIPMENT	SAMPLING EQUIPMENT
2° Bladder Pump —— Bailer (Teffon®) —— Centrifugal Pump —— Bailer (PVC)	2' Bladder Pump Beiler (Tellon®)
Centrifugal Pump — Bailer (PVC) Submersible Pump — Bailer (Stainless Steel)	DDL Sampler Bailer (Stainless Steet) Dipper Submersible Pump
Well Wizard ⁿ⁴ Dedicated	— Well Wizard™ — Dedicated
Other:	Other:
WELL INTEGRITY:	LOCK#:
WELL INTEGRITY:	
REMARKS:	
Meter Calibration: Date: 2-28-57 Time: Meter S	ierial #: 920 / Temperature °F:
(EC 1000/) (DI) (pH 7/	
Location of previous calibration:	· · · · · · · · · · · · · · · · · · ·
7 / /20 > *	<i>M</i>
Signature: Manuel 1. uslb Revie	wed By: Page of



WATER SAMPLE FIELD DATA SHEET

EMCON PROJECT NO: 20143-117.00	
PURGED BY: My Gallesos	CLIENT NAME: PGLE- POWER Plant
SAMPLED BY:	LOCATION: OAKLAKIN, CD
TYPE: Ground Water Surface Water Trea	atment Effluent Other
CASING DIAMETER (inches): 2 3 4	4.5 6 Other
CASING ELEVATION (feet/MSL):	VOLUME IN CASING (gal.): 5,68
1 (1 -)	CALCULATED PURGE (gal.): 17,05
DEPTH OF WELL (feet):	(3-1)
	(301.)
DATE PURGED: 2-28-97 Start (2400 Hr)	
DATE SAMPLED: Start (2400 Hr)	
	CIR (2400 FII)
TIME VOLUME pH E.C. (2400 Hr) (gal.) (units) (umhos/em @ 25° 0	TEMPERATURE COLOR TURBIDITY (visual) (visual)
1135 6.0 7.30 2070	. , , , , , , , , , , , , , , , , , , ,
Well N/V a+ 6.5 g	
1148 Vicharge 7.45 2350	
	
	1/2 //2
D. O. (ppm): NR ODOR: None.	
	(COBALT 0 - 500) (NTU 0 - 200) (filtered at this well: or 0 - 1000)
ac-1 (1155)	<u>MK</u>
PURGING EQUIPMENT	SAMPLING EQUIPMENT
2° Bladder Pump — Bailer (Teflon®)	2" Bladder PumpX Bailer (Teffon®)
Centritugal Pump — Bailer (PVC)	DDL Sampler Bailer (Stainless Steel)
Submersible Pump Sailer (Stainless Steel)	Dipper Submersible Pump
Well Wizard™ Dedicated	Well Wizard™ Dedicated
Other:	Other:
WELL INTEGRITY:	LOCK#:
REMARKS: all Samples takon	
REMARKS:	
	
2/2/27	00.4
Meter Calibration: Date: 2/28/97 Time: Meter S	
(EC 1000/) (DI) (pH 7/	_) (pH 10/) (pH 4/)
Location of previous calibration:	140 5 -
	wed By: Page S of S
Signature: A Revie	wed by.

	EMC	ON - Drum Inventory	Record	
20143-117.001	_	Oakland, CA		2128/97
Project No	_	Location	-	2/28/97 Date
PG&E-Oakland		M. Gallea.	05	Fri day Day of Week
Client	_	M. Galleg. Sampler		Day of Week
DRUM NUMBER OR ID	WELL OR SOURCE ID(s)	TYPE OF MATERIAL	AMOUNT OF MATERIAL IN DRUM	DATE ACCUMULATED OR GENERATED
A	MW-1-2 MW-1-3 MW-2-3			
			<u>-</u>	
Sketch locations of d	rums, include drum I	D's	COMMENTS:	
				·
			Number of Drums From This Event	
			Total Number of Drums At Site	1

EMCON GROUNDWATER SAMPLING AND ANALYSIS REQUEST FORM

PROJECT NAME: PACIFIC GAS & ELECTRIC-Oakland Power Plant

50 Martin Luther King Way

DATE SUBMITTED: 28-Feb-97

SPECIAL INSTRUCTIONS / CONSIDERATIONS :

Annual Water Quality Monitoring

BRING TWO DRUMS AND FIELD BLANK WATER FOR TPH-DIESE

MUST BE ON SITE BY 10:00AM. Gate is not staffed. Ring bell to be let in.

Take some extra locks along

Survey water levels prior to well purging and sampling.

Purge three casing volumes prior to sample collection

Purge with a jacuzzi or with bailers; sample with teflon bailers.

Drum purge water. Label and store drums by Hazardous

Waste storage area shed on the west side of the yard.

Deliver the samples to Chromalab when finished. (See attached map)

Authorization:	

Project No. : 20143-117.001

Task Code:

Send Results To: JC Isham

Coordinator: Steve Horton

Well Locks: 3490

TES Contact: Fred Flint Phone No.: (510) 866-5808

Site Contact: NA Phone No.: NA

Well ID	Casing	Casing	
or Source	Diameter	Length	ANALYSES REQUESTED
	(inches)	(feet)	
MW -1-2	4.0	13.5	TPHD by EPA 3510/8015M
MW-1-3	4.0	7.2	(Fill 2, 1 Liter Glass, NP)
MW-2-3	4.0	12.3	•
ample In I	ndicated Orde	er	
QC-1	(Field Blank)		TPHD by EPA 3510/8015M (2, 1 Liter Glass, NP)

Laboratory and Lab QC Instructions: all samples submitted to Chromalab: please send results to JC Isham

CHROMALAB, INC.

Environmental Services (SDB)

March 7, 1997

EMCON ASSOCIATES-SACRAMENTO

Atten: J.C. Isham

Project: PG&E OAKLAND

Received: February 28, 1997

re: 4 samples for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: WATER Sampled: February 28, 1997

Extracted: March 6, 1997

Run#: 5620 Analyzed: March 6, 1997

REPORTING BLANK BLANK DILUTION DIESEL LIMIT RESULT SPIKE FACTOR CLIENT SPL ID (uq/L)<u>(ug/L)</u> (ug/L)119470 MW-1-2 1800 50 N.D.

92.0 Hydrocarbon reported is in the late Diesel Range and does not match our Note:

MAR 1 3 1997

Project#:

Diesel Standard.

Matrix: WATER

Extracted: March 6, 1997

🖱 Submission #: 9702358

20143-117.001

Sampled: February 28, 1997 Run#: 5620 Analyzed: March 7, 1997

REPORTING BLANK BLANK DILUTION DIESEL LIMIT RESULT SPIKE <u>Spl#</u> CLIENT SPL ID (ug/L) <u>(ug/L)</u> (ug/L) (%) 119471 MW-1-3 1500 5Ō N.D. Hydrocarbon reported is in the late Diesel Range and does not match our Diesel Standard. 119472 MW-2-3 610 50 N.D. 92.0 1 Note: Hydrocarbon reported is in the late Diesel Range and does not match our

Diesel Standard.

119473 QC-1

N.D. 50

N.D. 92.0

1

Bruce Havlik

Chemist

Alex Tam

Semivolatiles Supervisor



EMCON - San Jose

CHAIN OF CUSTODY /LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Avenue, San Jose, CA 95131 (408) 453-7300 FAX (408) 437-9526	CA 95131 (408) 453-7300	FAX (408) 437	-9526						Date	2-28-	6-5-8	7	Page	of
Project Name: Pacific Gas & Electric, Oakland	& Electric, Oakland							Α	nalysis R	Analysis Requested				
Project Number: 20143-117.001	7.001		_									7		
Project Manager: J. C. Isham	am		ers											
 Company/Address: EMCON	۷		tain	5M)_										
1433 No	1433 North Market Blvd, Suite 2	ite 2								Mans	# EM	9702	9785355 KEP:	30. P.
Sacrame	Sacramento, CA 95834-9014									CL_	CLIENT:	EMCON	Z	
Phone: (916) 928-0415	28-0415									DUE ;	36	03/07/97 7734	7/97	
Sampler's Signature: 776.	Exect Jakellon	<u> </u>	Numt	TPH- (EPA						7. F		## 0 nn \ 2	•	-
Sample	LAB '	Sample												
I.D. Date	Time I.D.	Matrix	_	NP										Preservations
MW-1-2 288/57	ਰ	H2O	2	×										
MW-1-3	135	H2O	2	×										
MW-2-3	145	H20	2	×										
QC:1		H20	2	×										
				,	·									
				ļ										
Relinquished By	Munic Pak	2d	1	TURNAROUND REQUIREMENTS	D REQUIRE	NENTS	X t. Rov	REPORT REQUIREMENTS 1. Routing Report	MENTS	IOANI	INVOICE INFORMATION	NOITA	MAS	SAMPLE RECEIPT
Signature / Manuel Gallegos	Signature Mirmic Park	<i>(</i> *	×	24 hr 4 Standard	48 P		II. Rep	 Report (includes DUP, MS MSD, as required, may be 	UP, MS may be	P.O. #			Shipping VIA: Shipping #:	
Printed Name EMCON	Printed Name Chromalab	<u> </u>		Provide Verbal Preliminary Results Provide FAX Preliminary Results	Preliminary Ro eliminary Ros	ults	char	charged as samples) III. Data Validation Report	sport (Bill 10:			Condition:	
Firm /28/67/1348	Film / 2/2/ 9/1	8701	olsoubo	Requested Report Date			(includ	(includes All Raw Data) WQCB	Datu)				Lati No:	
Time /	ime						(MDLs	(MDLs/PQLs/TRACE#)	#)					
Relinquished By	Received By		pecia ier l	Special Instructions/Comments: Tier I QC	ons/Comm	ents:								
Signature	Signature	777	'lease	Please send results to JC Isham	ults to JC	Isham								
Printed Name	Printed Name													
Firm	Firm													
Date/Time	Date/Time													

CHROMALAB, INC.

Environmental Service (SCS)

Sample Receipt Checklist	1	
Client Name: EMCON Date/Time Received: 2/2	8/97	1248
Reference/Subm #: 32274/9708358 Received by: 1)ate '	/ Time
Signature // Date	i By: Y	Mp 3/3/97
Matrix: H20 Carrier name: Client	- c/L	
Shipping container/cooler in good condition? Yes_	No	Nat Present
Custody seals intact on shipping container/cooler? Yes	No	Present
Custody seals intact on sample bottles? Yes	No	Not Present
Chain of custody present?	Yes	No
Chain of custody signed when relinquished and received?	Yes	No
Chain of custody agrees with sample labels?	Ye≤	No.
Samples in proper container/bottle?	Yes	No
Sample containers intact?	Yes	No
Sufficient sample volume for indicated test?	Yes,	No
All samples received within holding time?	/ Yes	No
Container/Temp Blank temperature in compliance? Temp: //-	Z·c Yes_	No
Water - VOA vials have zero headspace? No VOA vials submitted to	^	
Water - pH acceptable upon receipt? VESadjusted? Checked by Mt	, /che	mist for VOAs
Any No and/or NA (not applicable) response must be detailed in the com	ments s	ection below.
	:=====:::::::::::::::::::::::::::::::::	
Client contacted: Date contacted: Person cont	acted:	
Contacted by: Regarding:	,	003/5/
temp. Sange of 2-8000	<u>ble</u>	Sange
Carrective Action:		