



Pacific Gas and
Electric Company

Alameda County

SEP 04 2002

Environmental Support
and Services

77 Beale Street
San Francisco, CA 94105

Mailing Address
P.O. Box 7640
San Francisco, CA 94120

415.973.7000

August 26, 2002

Environmental Health

Alameda County Environmental Health Care Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attention: Ms. Eva Chu

**Subject: Oakland Power Plant, Proposal for Confirmation Soil and Groundwater
Sampling East of Unit 2 Exhaust Stack**

Dear Ms. Chu:

This letter presents a description for proposed confirmation soil and groundwater sampling east of the Unit 2 Exhaust Stack at Oakland Power Plant. The plant is located at ~~1700~~ **King Jr. Way, in Oakland, California**. This letter was prepared as requested in your letter to Mr. Korbin Creek of Pacific Gas and Electric Company (PG&E), dated June 4, 2002. In that letter, further delineation of Total Petroleum Hydrocarbons as Diesel (TPH-D) concentrations in the groundwater near the eastern portion of the power-generating parcel was requested. In particular, an unusually high concentration of TPH-D (160 mg/L) was reported in a 1992 grab groundwater sample collected from a soil probe (GWS-2A) advanced in this area, according to the onsite mobile laboratory that tested it (PG&E, January 1993, Shallow Soil and Groundwater Investigation Surrounding the Diesel Dump Tanks at PG&E's Oakland Power Plant, Alameda County, California). A soil sample collected from that probe at six feet below ground surface (bgs) was reported to contain 310 ppm TPH as diesel. This letter proposes confirmation soil and groundwater sampling from a single soil probe to be advanced near the 1992 probe location. The primary purpose of the proposed confirmation sampling is to compare the TPH-D results of the new groundwater sample to that of the 1992 sample in order to assess the representativeness of the older sample.

The proposed confirmation sampling location (CS-1) is immediately adjacent to the location of a 1992 soil probe, GWS-2A (Attachment 1). It is proposed to collect the confirmation soil and groundwater samples using Direct Push (DP) soil probing equipment. It is planned to advance a single probe to a depth of approximately eight feet bgs, and **collect one soil sample at** groundwater depth, expected to be **about four to five feet bgs**. It is proposed to **collect duplicate grab groundwater samples** by either lowering a new bailer through the probe rods or by inserting tubing with a check valve at the bottom, and jacking. Samples will be labeled, placed on ice in a cooler, and transported under chain-of-custody to a state-certified laboratory.

The subsurface conditions, soil sample depths, and depth to groundwater will be documented on a boring log prepared by a field geologist. Soils will be described according to the Unified Soil Classification System outlined in ASTM D2488. The probe hole will be tremie grouted to the surface with neat cement.

It is proposed to analyze the soil and groundwater samples for TPH-D by U.S. Environmental Protection Agency (USEPA) Methods 3510/8015M. Prior to analysis, the water samples will be poured through a 0.7-micron glass filter to remove the particulate matter, and will be prepared using a silica gel cleanup by EPA Method 3630 to reduce biogenic interferences.

Additionally, in your June 4 2002 letter, you requested documentation related to the disposal of excavated soil associated with the removal of three diesel dump tanks at the plant in November 1991. Attached are five Uniform Hazardous Waste Manifests indicating that a total of ~~677 cubic yards of soil contaminated with diesel fuel was shipped to Kettleman Hills Facility~~ on January 17-24, 1992.

In your June 4 2002 letter, you also requested the name, address, and contact information of the new property owner for Oakland Power Plant. That information follows.

Owner Name	Duke Energy North America
Owner Address	50 Martin Luther King Jr. Way
Contact	Luis Medina
Contact Telephone	510-251-6860

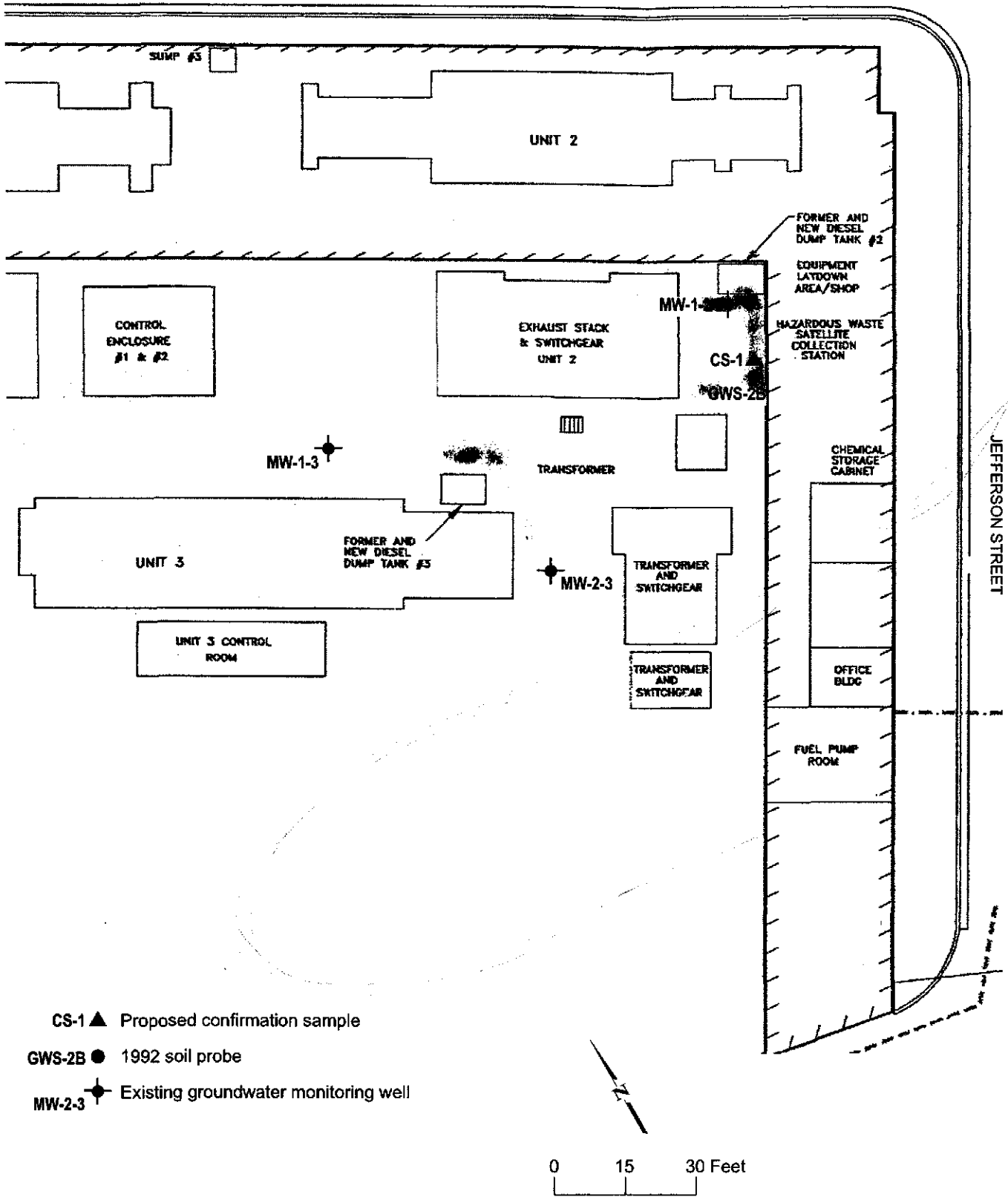
Please feel free to contact me at your earliest convenience (415) 973-4203 to discuss the proposed confirmation sampling.

Sincerely,



Anne Conner
Senior Project Manager

Attachments: 1) Figure – Location of proposed confirmation soil probe, 1 page.
2) Uniform Hazardous Waste Manifest Nos. 78312, 78313, 78314, 78317, and 78364, 5 pages.



Attachment 1. Location of proposed confirmation soil probe, Oakland Power Plant, Oakland, CA.

NOTICE 13009

REC 24 1992
 2569
 Department of Health Services
 Toxic Substances Control Division
 Sacramento, California

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL FIRE
 CHEMICAL HAZARD CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAT0800111679781312	Manifest Document No. 2569	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC CO.-OPP 50 MARTIN LUTHER KING JR. WAY OAKLAND CA 94607			A. State Manifest Document Number 90278312		
4. Generator's Phone 415 695-2261			B. State Generator's ID HYHQ36008798		
5. Transporter 1 Company Name Stamco, Inc			C. State Transporter's ID CAD063547996		
6. US EPA ID Number CAD063547996			D. Transporter's Phone 8003211050		
7. Transporter 2 Company Name			E. State Transporter's ID		
8. US EPA ID Number			F. Transporter's Phone		
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKY KETTLEMAN CITY, CA 93239			G. State Facility's ID CAT000646117		
10. US EPA ID Number CAT000646117			H. Facility's Phone 800 222 2964		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. NON-RCRA HAZARDOUS WASTE SOLID, (SOIL AND HYDROCARBONS)					State 611 EPA/Other NON RCRA
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other
J. Additional Descriptions for Materials Listed Above HA-SOIL CONTAMINATED WITH DIESEL FUEL. ERG # 31			K. Handling Codes for Wastes Listed Above a. 03 b. c. d.		
BIN # 210124 BIN # 210128					
15. Special Handling Instructions and Additional Information Wear personal protective clothing as needed, Profile J13009. 24-hour phone 1800-332-AEMC.					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name		Signature		Month Day Year	
17. Transporter 1 Acknowledgment of Receipt of Materials					
Printed/Typed Name Carlos Magaña		Signature		Month Day Year 10/27/92	
18. Transporter 2 Acknowledgment of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
(B) proposed 10 small Resolved w/ Melissa Johnson 1/28/93					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name William C. ...		Signature		Month Day Year 01/28/92	

Do Not Write Below This Line

4639-03

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAT06001167978343		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address 50 MARTIN LUTHER KING JR WAY OAKLAND CA. 94607				A. State Manifest Document Number 90278313			
4. Generator's Phone 415-695-2261				B. State Generator's ID			
5. Transporter 1 Company Name STAMCO		6. US EPA ID Number CA0063577996		C. State Transporter's ID 210127-43373		D. Transporter's Phone 800-759-4211	
7. Transporter 2 Company Name				E. State Transporter's ID			
8. US EPA ID Number				F. Transporter's Phone			
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT INC. 25251 OLD SKYLINE RD. MARTIN CITY CA. 93239				10. US EPA ID Number CAT000646117			
G. State Facility's ID CAT000646117				H. Facility's Phone 800-222-2564			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. NON-RCRA HAZARDOUS WASTE SOLID (SOIL AND HYDROCARBONS)		No. Type		Quantity		Waste No.	
		002CM000151				State 811 EPA/Other NON-RCRA	
b.						State EPA/Other	
c.						State EPA/Other	
d.						State EPA/Other	
J. Additional Descriptions for Materials Listed Above DIRTY DIESEL FUEL AND OIL BIN #5065 BIN #20				K. Handling Codes for Wastes Listed Above a. 03 b. c. d.			
15. Special Handling Instructions and Additional Information USE PROTECTIVE EQUIPMENT SUCH AS GLOVES, COVERALS EYES, RESPIRATOR. EMERGENCY PHONE # 1-800-332-ARMCO							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name BARY Bushnell				Signature Bary Bushnell		Month Day Year 01/20/92	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature Carlos Malave		Month Day Year 01/20/92	
Printed/Typed Name CARLOS MALAVE				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Raymond Country				Signature		Month Day Year 01/20/92	

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7560

GENERATOR

TRANSPORTER

FACILITY

Do Not Write Below This Line

241623705

Yellow: TSCA SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

JAN 29 1992

USE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL P

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA108001167971813114	Manifest Document No. 71813114	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC CO. - OPP 50 MARTIN LUTHER KING JR WAY		4. Generator's Phone (415) 695-2261 OAKLAND CA 94607		A. State Manifest Document Number 90278314	B. State Generator's ID HYHQ36-208798
5. Transporter 1 Company Name STAMCO, INC		6. US EPA ID Number KAD0635479916		C. State Transporter's ID 213372/213376	D. Transporter's Phone 800 3411030
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID	F. Transporter's Phone
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE ROAD KETTLEMAN CITY CA 93239		10. US EPA ID Number CA1000646117		G. State Facility's ID CA1000646117	H. Facility's Phone 800 222 2964
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) NON-RCRA HAZARDOUS WASTE SOLID SOIL AND HYDROCARBONS		12. Containers No. Type 002CM00000CY	13. Total Quantity	14. Unit Wt/Vol	Waste No. 611 ADPKKA
J. Additional Descriptions for Materials Listed Above IIA - SOIL CONTAMINATED WITH DIESEL FUEL (70-12000 PPM) ERG # 31		K. Handling Codes for Wastes Listed Above a. 03		b.	c. d.
15. Special Handling Instructions and Additional Information USE PERSONAL PROTECTIVE CLOTHING AS NEEDED PROFILE J13009 24 HOUR PHONE 1800 332 AEMCO					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name MELISSA L JOHNSON		Signature <i>Melissa L Johnson</i>		Month Day Year 01/17/92	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name DAVE GRAY		Signature <i>Dave Gray</i>		Month Day Year 01/17/92	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Ernest J Archuleta					
Signature <i>Ernest J Archuleta</i>		Month Day Year 01/17/92			

Do Not Write Below This Line

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

Rule 06 06

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAT080011679183117** Manifest Document No. **90278317**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address **PACIFIC GAS AND ELECTRIC CO. - OAKLAND P.P. 50 MARTIN LUTHER KING JR. WAY 45,695,2261 OAKLAND CA 93239**

4. Generator's Phone **415.695.2261**

5. Transporter 1 Company Name **STAMCO, INC.** 6. US EPA ID Number **CAD0635HT996**

7. Transporter 2 Company Name 8. US EPA ID Number

9. Designated Facility Name and Site Address **CHEMICAL WASTE MANAGEMENT 35051 OLD SKYLINE ROAD 93239 RITTLEMAN CITY, CA CAT000646117** 10. US EPA ID Number **CAT000646117**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers	13. Total Quantity	14. Unit Wt/Vol	Waste No.
1	1	1	611
Type DRUM			State CA
			EPA ID NON-RCRA
			State
			EPA/Other
			State
			EPA/Other

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) **NON-RCRA HAZARDOUS WASTE, SOLID SOIL AND HYDROCARBONS**

12. Containers **1**

13. Total Quantity **1**

14. Unit Wt/Vol **1**

Waste No. **611**

State **CA**

EPA ID **NON-RCRA**

State

EPA/Other

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

a. **NON-RCRA SOIL CONTAMINATED WITH DIESEL FUEL, ERG # 31.**

K. Handling Codes for Wastes Listed Above

a. **03**

b.

c.

d.

15. Special Handling Instructions and Additional Information

WEAR PERSONAL PROTECTIVE CLOTHING AS NEEDED. PROFILE J13009 BIN # 53 24 HOUR PHONE 1800 332 AEMC

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name Signature Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name **John Jetton** Signature **John Jetton** Month Day Year **10/13/92**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

Resolved w/ Melissa Johnson on 1/24/92. Incomplete quantity - Received 139 - 14,140

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name **Debra Gentry** Signature Month Day Year **10/13/92**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-952-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1008001167978364		Manifest Document No. 90278364		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC CO. OAK P.P. 50 MARTIN LUTHER KING JR WAY OAKLAND CA 93239				4. Generator's Phone 415 695 2261		B. State Generator's ID HY4036008798		C. State Transporter's ID	
5. Transporter 1 Company Name Samco Inc.				6. US EPA ID Number CA0063547996		D. Transporter's Phone 8003211030		E. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID CA100616461117	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE ROAD KETTLEMAN CITY CA				10. US EPA ID Number CA10006461117		H. Facility's Phone 800-222-2964			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
NON RCRA HAZARDOUS WASTE, SOLID SOIL AND HYDROCARBONS						001	CM000100	CY	611 NON RCRA
16. Additional Descriptions for Materials Listed Above IIA-SOIL CONTAMINATED WITH DIESEL FUEL, ER6 #31						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.			
16. Special Handling Instructions and Additional Information WEAR PERSONAL PROTECTIVE CLOTHING AS NEEDED. BIN # PROFILE J13009 24 HOUR PHONE 1800-332-AEMC									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name					Signature			Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed/Typed Name Ernest J. Aculeto					Signature			Month Day Year FOUR 1992	

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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24435503

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TES

Alameda County
DEC 26 2002
Environmental Health

**Report
Confirmation
Soil and Groundwater
Sampling
Near Diesel Dump Tank No. 2
Oakland Power Plant**

December 06, 2002

Prepared by
Technical and Ecological Services

Prepared for
**Environmental Affairs
Pacific Gas and Electric Company**

December 2002

Report No.: 402.331-02.114

**Pacific Gas and Electric Company
Technical and Ecological Services
3400 Crow Canyon Road, San Ramon, California 94583**

TES 24-Hr. Service Line: 8-251-3197 or (925) 866-3197



December 19, 2002

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services
Environmental Protection
1131 Harbor Way Parkway, Suite 250
Alameda, CA 94502-6577

**Subject: Oakland Power Plant, Report on Confirmation Soil and Grab Groundwater
Sampling Near Diesel Dump Tank No. 2**

Dear Ms.Chu:

Enclosed is a copy of a Pacific Gas and Electric company (PG&E) Technical and Ecological Services report titled, "Report, Confirmation Soil and Groundwater Sampling Near Diesel Dump Tank No. 2, Oakland Power Plant, December 06, 2002" (Enclosure 1). Confirmation sample probe CS-1 was located adjacent to 1992 probe GWS-2B, and was advanced to a total depth of 12 feet. Groundwater was measured at 5.5 feet.

The laboratory results confirmed the presence of diesel in soil and groundwater. The following concentrations of diesel were reported in the three tested soil samples and the two grab groundwater samples.

- 5.0 mg/Kg at 4.5 feet (soil).
- 7,600 mg/Kg at 6.0 feet (soil).
- 1.8 mg/Kg at 11.5 feet (soil).
- 900 ug/L at 5.5 feet (grab groundwater sample).
- 880 ug/L at 5.5 feet (duplicate groundwater sample).

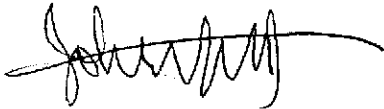
Please note that the concentration of diesel in the soil was very much lower above and below the 6.0-foot sample. Also note that the 880 to 900 ug/L diesel in the groundwater was three orders of magnitude less than the concentration of 160,000 ug/L reported in 1992. Because the solubility of diesel in water is approximately 5,000 ug/L (Ref: International Programme on Chemical Safety internet link: <http://www.inchem.org/documents/ehc/ehc/ehc171.htm>), PG&E believes that the 2002 laboratory data for the water samples is more representative and accurate than the 1992 data.

Ms. Eva Chu
December 19, 2002
Page 2

Also enclosed for your reference is a copy of the PG&E 2002 Groundwater Monitoring and Sampling Annual Report that was transmitted to the SFRWQCB on April 23, 2002 (Enclosure 2). Table 1 in that report presents a summary of analytical results of groundwater samples collected from three monitoring wells (MW-1-2, MW-1-3, MW-2-3) since 1993.

Based on the favorable results of this investigation and the low concentrations of diesel-range hydrocarbons measured in annual groundwater samples collected from the three monitoring wells during the past five years, we believe that no additional monitoring is warranted at this site. Therefore, Pacific Gas and Electric Company requests that you issue a "no-further-action" letter.

Please feel free to contact me at 925.866.5883 if you have any questions about this confirmation sampling.

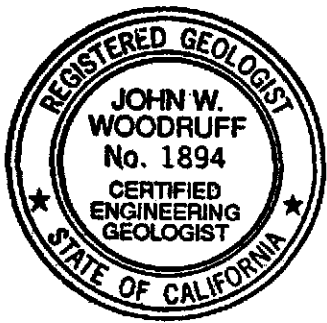


JOHN WOODRUFF

JWW(925-866-5883):cap
402_331-02_114 ltr-r1.doc

pc: Ms. Priya Ganguli
San Francisco Regional Water Quality Control Board
Planning & Policy Division
1515 Clay St. Suite 1400
Oakland, CA 94612

Enclosures



Prepared by:

A handwritten signature in cursive script, appearing to read "John W. Woodruff", written over a horizontal line.

John W. Woodruff
Registered Geologist

Approved by:

A handwritten signature in cursive script, appearing to read "Korbin D. Creek", written over a horizontal line.

Korbin D. Creek
Land and Water Quality Unit Supervisor

TABLE OF CONTENT

Letter of transmittal

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1 INTRODUCTION	1
2 BACKGROUND	1
3 CONFIRMATION SAMPLING AND ANALYSIS	1
4 RESULTS	2

Appendix A – FIGURES AND TABLES

Figure 1. Site Plan

Table 1. Diesel Concentrations in CS-1 Soil and Grab Groundwater Samples

Appendix B - LOG OF CONFIRMATION SAMPLE DIRECT PUSH SOIL PROBE CS-1

Appendix C - CHAIN-OF-CUSTODY AND CHEMICAL LABORATORY REPORT

1 INTRODUCTION

This report presents the results of October 31 2002 confirmation sampling of soil and grab groundwater from a soil probe. This soil probe, designated CS-1, was located approximately one foot southwest of a previous soil probe (GWS-2B), advanced on October 6 1992. These probes are located about 20 feet south of Diesel Dump Tank No. 2, as shown on the Site Plan (Figure 1). The purpose of the 2002 probe was to confirm the 1992 results and to further delineate diesel concentrations in the groundwater. This additional work was requested in a June 4, 2002 letter from Ms. Eva Chu of Alameda County Environmental Health Care Services Environmental Protection to Mr. Korbin Creek of Pacific Gas and Electric Company Technical and Ecological Services.

2 BACKGROUND

The 1992 probe GWS-2B was advanced to a total depth of 10 feet. A grab groundwater sample collected at a depth of 6.2 feet was reported to contain 160 mg/L diesel, which is considered to be an unusually high concentration. A soil sample collected at 6 feet was reported to contain 310 mg/Kg diesel. The log of GWS-2B indicates that floating product was not observed (PG&E, January 1993, Shallow Soil and Groundwater Investigation Surrounding the Diesel Dump Tanks at PG&E's Oakland Power Plant, Alameda County, California).

3 CONFIRMATION SAMPLING AND ANALYSIS

The October 31, 2002 confirmation sample soil probe CS-1 was advanced to a total depth of 12 feet. Gregg Drilling and Testing, Inc. (Martinez, CA) performed the exploration with a track-mounted rig. Groundwater was measured at 5.5 feet. Soil samples were collected, examined, and logged. A groundwater sample and a duplicate sample were also collected. Descriptions of the subsurface conditions and sampling information are presented on the log of this probe (Appendix B).

Soil samples were collected using the Geoprobe Macro-Core sampler, which recovers 1.5-inch diameter soil samples in 4-foot long, clear plastic, Cellulose Acetate Butyrate (CAB) tubes. Samples that were retained were cut from the tube in 4-inch lengths, capped, labeled, and placed on ice in a cooler.

The grab groundwater sample and duplicate sample from the uppermost water-bearing zone were collected using 3/4-inch diameter threaded PVC pipe with a 5-foot long slotted section (0.02-inch wide slots) at the bottom. First, the DP rods were removed from the borehole once the hole was completed. The water line on the DP rods indicated a groundwater depth of 5.5 feet. The 5-foot length of slotted

pipe was then lowered into the open borehole and a 5-foot long section of solid PVC pipe was threaded onto it until the slotted section was within the upper water-bearing zone. Then, a stainless steel mini-bailer was lowered into the pipe, and the samples were collected by emptying the bailer into sample jars until filled. Water samples were examined for hydrocarbon sheen and odor. The sample bottles were labeled and placed on ice in a cooler.

Following the completion of the probe, the borehole was tremie-grouted with neat cement from the bottom of the probe hole to 0.5 feet. The upper 0.5 feet was capped with black-dyed concrete.

All soils brought to the surface were transported to the PG&E Technical and Ecological Services facility in San Ramon where it was manifested and shipped to Forward Landfill.

Three soil samples collected from 4.5, 6.0, and 11.5 feet and the two groundwater samples were analyzed for diesel using EPA Method 8015M by Severn Trent Laboratories, Inc. Prior to analysis, the groundwater samples were treated in the laboratory by filtering them through a 0.7-micron glass filter to remove the particulate matter. Both the soil and groundwater samples were prepared using a silica gel cleanup by EPA Method 3630 to reduce biogenic interferences.

4 RESULTS

Results of the soil probe investigation indicate that the explored location is underlain by sandy fill to 4.5 feet. A buried concrete slab was encountered at 1.5 to 2.0 feet. Clayey sand alluvium was encountered from 4.5 to 12.0 feet, the bottom of the probe. Groundwater was encountered at a depth of 5.5 feet (Appendix B).

Results of the chemical analyses indicate the following concentrations of diesel in the soil samples, in mg/Kg: 5.0 at 4.5 feet, 7,600 at 6.0 feet, and 1.8 at 11.5 feet. Diesel was reported in concentrations of 900 and 880 ug/L in the two grab groundwater samples. These results are summarized in Table 1, and the laboratory reports and chain-of-custody are included in Appendix C. Floating product was not observed in the water samples, however, a diesel odor and a sheen was observed.

Appendix A

FIGURES AND TABLES

EMBARCADERO WAY

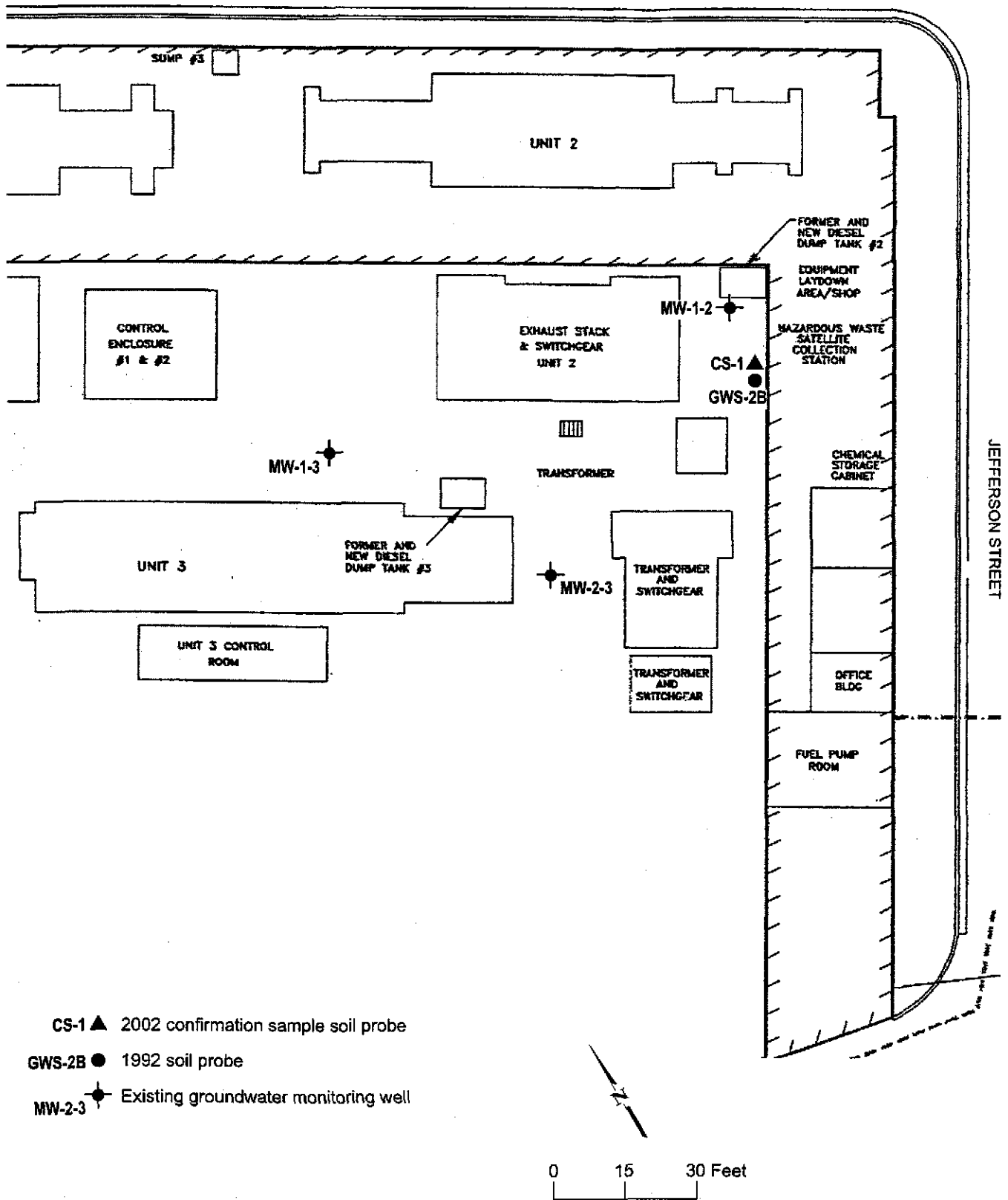


Figure 1. Site plan showing location of confirmation sample soil probe CS-1, Oakland Power Plant, Oakland, CA.

**Table 1. Diesel Concentrations in Soil and Grab Groundwater Samples
Oakland Power Plant CS-1 Confirmation Sampling**

SOIL SAMPLES					
SAMPLE O - Original C - Confirmation	SAMPLE ID	SAMPLE DEPTH (FEET)	SAMPLE DATE	DIESEL	FLAG
O	GWS-2BS-6.0	6.0	07-Oct-92	310	-
C	CS-1-4.5	4.5	31-Oct-02	5.0	ndp
C	CS-1-6.0	6.0	31-Oct-02	7,600	ndp
C	CS-1-11.5	11.5	31-Oct-02	1.8	ndp

Concentrations are in milligrams per kilogram (mg/Kg).

GRAB GROUNDWATER SAMPLES					
SAMPLE O - Original C - Confirmation	SAMPLE ID	SAMPLE DEPTH (FEET)	SAMPLE DATE	DIESEL	FLAG
O	GWS-2B	6.2	07-Oct-92	160,000	-
C	CS-1-A	5.5	31-Oct-02	900	rl, ndp
C	CS-1-B	5.5	31-Oct-02	880	rl, ndp

Concentrations are in micrograms per liter (ug/L).

NOTES

- 1 The 1992 original analyses were performed by National Environmental Testing Inc. (Pleasanton, CA) using an on-site mobile laboratory.
- 2 The 2002 confirmation analyses were performed by Severn-Trent Laboratory (Pleasanton, CA).
- 3 The 2002 analyses included Silica Gel Clean-up to reduce biogenic interferences.

FLAGS

- rl = Analysis Flag: Reporting limits raised due to reduced sample size.
 ndp = Result Flag: Hydrocarbon reported does not match the pattern of laboratory's Diesel standard.
 -- = No flag

Appendix B

LOG OF CONFIRMATION SAMPLE SOIL PROBE CS-1



DIRECT PUSH PROBE LOG

CS-1

Project Name: Oakland Power Plant Confirmation Sampling
Location: 50 MLK Jr. Way, Oakland, CA

page 1 of 1

Driller Bob Deason and Tony Longoria of Gregg Drilling	Probe Location One foot west of GWS-2B, ~15' SW of Diesel Dump Tank No. 2	Total Depth 12.0
Rig Mar 2.5, Rhino rubber track rig	Surface Asphalt	Water Depth 5.5
Hole Diameter 2.25 inches	Datum Asphalt surface	Date 31-Oct-2002
Soil Sampler Macrocore	Water Samples Yes	Logged by John Woodruff
Water Sampler 3/4" PVC, 5' screen, steel mini-bailer		
Backfill Neat cement to 0.5 feet, then blackened concrete		

Drive	Recovery/ Drive (feet)	Product Odor	Sample Container	Sample ID	Depth (feet)	Sample	Soil Symbol (USCS)	DESCRIPTION (soil type, color, moisture content, consistency, density, etc.)	
Hand augered to 5 feet	N/A	No			0	AS	AS	0 - 0.5 ASPHALT (AS).	
					1	GP	GP	0 - 1.0 POORLY GRADED GRAVEL WITH SAND (GP) - gray, dry, medium dense - FILL.	
					2	CO	CO	1.5 - 2.0 CONCRETE (CO) - buried slab, rebar not encountered.	
	2.5/ 3.0	SI		AL	CS-1-4.5	3	SW	SW	2.0 - 4.5 WELL GRADED SAND WITH GRAVEL AND CLAY (SW) - dark brown to dark gray, moist, medium dense, abundant small brick pieces, some concrete pieces, gravel is mostly weathered sandstone and shale - FILL.
			*	CS-1A	4				
			*	CS-1B	5				
			AL	CS-1-6.0	6				
	2.8/ 4.0	Mo				7	SC	SC	4.5 - 12.0 CLAYEY SAND (SC) - very dark gray, wet, loose to medium dense, fine sand - NATIVE ALLUVIUM.
					8				
					9				
			SI	AL	CS-1-11.5	11			
					12	Bottom of probe hole at 12.0 feet.			
					13	* Number and Type of grab groundwater sample containers. <u>No. Type</u> 1 1-Liter glass amber bottle.			
					14				
					15				
					16				
					17				
					18				
					19				
					20				

Notes: 1) Diesel odor and sheen was observed in the water samples and on the sampling equipment. 2) Floating product was not observed on the water samples.
 Product Odor: No=None, SI=Slight, Mo=Moderate, St=Strong. Sample Container: AL=Acetate liner. Sample ID: bold if analyzed. Sample: black=soil, checkered=groundwater.
 Soil Symbol Abbreviations: C=Clay or clayey, M=Silt or silty, O=Organic soil, L=Low plasticity, H=High plasticity, G=Gravel or gravelly, S=Sand or sandy, W=Well graded, P=Poorly graded.
 Consistency Terms: very soft, soft, medium stiff, stiff, very stiff, and hard. Apparent Density Terms: very loose, loose, medium dense, dense, and very dense.
 Soil Components: boulders = >12", cobbles = 12" to 3", coarse gravel = 3" to 3/4", fine gravel = 3/4" to #4, coarse sand = #4 to #10, medium sand = #10 to #40, fine sand = #40 to #200.

Appendix C

**CHAIN-OF-CUSTODY AND
CHEMICAL LABORATORY REPORT**

Client PG&E Technical and Ecological Services (TES) Address 3400 Crow Canyon Road City San Ramon State CA Zip Code 94583		Project Manager John Woodruff - PG&E (jxwf@pge.com) Telephone Number 925.866.5883 Site Contact None Carrier/Waybill Number		Date 31-Oct-2002 Laboratory STL San Francisco Laboratory Phone 925.484.1919 Laboratory Fax 925.484.1096			
Project Number/Name Oakland Power Plant Confirmation Sampling Contract/Purchase Order/Quote Number 4600013883							
Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Containers Type No.	Preservative	Condition on Receipt/Comments
CS-1-4.5	31-Oct-2002	-	Soil	115cc	Acetate 1	-	
CS-1-6.0							
CS-1-11.5							
CS-1-A		1100	Water	1000ml	Amber	None	
CS-1-B		1100		1000ml	Amber	None	
Special Instructions							
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive for 3 Months		Project Specific Requirements (Specify)		
Turn/Around Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other			QC Level <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III		1. Received By <i>[Signature]</i> Date <i>01-Nov-2002</i> Time <i>09:11</i>		
1. Relinquished By <i>[Signature]</i>			2. Received By		Date <i>11/27/02</i> Time <i>08:58</i>		
2. Relinquished By			3. Received By		Date _____ Time _____		
3. Relinquished By			_____		Date _____ Time _____		
Comments							

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

Attn.: John Woodruff
3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

SEVERN
TRENT
LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
CS-1-6.0	10/31/2002	Soil	2
CS-1-11.5	10/31/2002	Soil	3
CS-1-A	10/31/2002 11:00	Water	4
CS-1-B	10/31/2002 11:00	Water	5

Submission #: 2002-11-0062

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Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromatab.com

CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: CS-1-6.0 Lab ID: 2002-11-0062 - 2
Sampled: 10/31/2002 Extracted: 11/7/2002 06:47
Matrix: Soil QC Batch#: 2002/11/07-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	7600	100	mg/Kg	100.00	11/08/2002 11:02	ndp
<i>Surrogates(s)</i>						
o-Terphenyl	NA	60-130	%	100.00	11/08/2002 11:02	sd

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff
3400 Crow Canyon Road
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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: CS-1-11.5 Lab ID: 2002-11-0062 - 3
Sampled: 10/31/2002 Extracted: 11/7/2002 06:47
Matrix: Soil QC Batch#: 2002/11/07-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.8	1.0	mg/Kg	1.00	11/07/2002 18:12	ndp
Surrogates(s)						
o-Terphenyl	65.2	60-130	%	1.00	11/07/2002 18:12	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: CS-1-A Lab ID: 2002-11-0062 - 4
Sampled: 10/31/2002 11:00 Extracted: 11/6/2002 06:29
Matrix: Water QC Batch#: 2002/11/06-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	900	60	ug/L	1.19	11/06/2002 14:35	ndp
Surrogates(s)						
o-Terphenyl	81.9	60-130	%	1.19	11/06/2002 14:35	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G.& E TES

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3400 Crow Canyon Road
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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

SEVERN

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: CS-1-B Lab ID: 2002-11-0062 - 5
Sampled: 10/31/2002 11:00 Extracted: 11/6/2002 06:29
Matrix: Water QC Batch#: 2002/11/06-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	880	50	ug/L	1.00	11/06/2002 15:13	ndp
<i>Surrogates(s)</i>						
o-Terphenyl	80.7	60-130	%	1.00	11/06/2002 15:13	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2002/11/06-01.10-001

Water

Test(s): 8015M

QC Batch # 2002/11/06-01.10

Date Extracted: 11/06/2002 06:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	11/06/2002 15:50	
<i>Surrogates(s)</i> o-Terphenyl	79.7	60-130	%	11/06/2002 15:50	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2002/11/07-01.10-001

Soil

Test(s): 8015M

QC Batch # 2002/11/07-01.10

Date Extracted: 11/07/2002 06:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/07/2002 18:59	
<i>Surrogates(s)</i> o-Terphenyl	69.4	60-130	%	11/07/2002 18:59	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

Attn.: John Woodruff
3400 Crow Canyon Road
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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/11/06-01.10

LCS 2002/11/06-01.10-002

Extracted: 11/06/2002

Analyzed: 11/06/2002 14:35

LCSD 2002/11/06-01.10-003

Extracted: 11/06/2002

Analyzed: 11/06/2002 15:13

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	894	935	1250	71.5	74.8	4.5	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	18.5	19.3	20.0	92.6	96.4		60-130	0		

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G.& E TES

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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/11/07-01.10

LCS 2002/11/07-01.10-002

Extracted: 11/07/2002

Analyzed: 11/07/2002 17:44

LCSD 2002/11/07-01.10-003

Extracted: 11/07/2002

Analyzed: 11/07/2002 18:21

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	33.1	34.4	41.6	79.6	82.5	3.6	60-130	25		
Surrogates(s) o-Terphenyl	16.1	16.9	20.0	80.3	84.5		60-130	0		

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G.& E TES

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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

SEVERN

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www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

rl

Reporting limits raised due to reduced sample size.

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

Attn.: John Woodruff

3400 Crow Canyon Road

San Ramon, CA 94583-1393

Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07



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www.chromalab.com

CA DHS ELAP# 2498

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
CS-1-4.5	10/31/2002	Soil	1

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

Attn.: John Woodruff
3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

SEVERN
TRENT
LABORATORY

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Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: CS-1-4.5 Lab ID: 2002-11-0062 - 1
Sampled: 10/31/2002 Extracted: 11/11/2002 18:32
Matrix: Soil QC Batch#: 2002/11/11-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	5.0	1.0	mg/Kg	1.00	11/12/2002 16:31	ndp
Surrogates(s)						
o-Terphenyl	66.0	60-130	%	1.00	11/12/2002 16:31	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G. & E TES

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3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

SEVERN
TRENT
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Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2002/11/11-04.10-001

Soil

Test(s): 8015M

QC Batch # 2002/11/11-04.10

Date Extracted: 11/11/2002 18:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/12/2002 18:55	
<i>Surrogates(s)</i> o-Terphenyl	77.7	60-130	%	11/12/2002 18:55	

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

P.G.& E TES

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Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

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Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/11/11-04.10

LCS 2002/11/11-04.10-002

Extracted: 11/11/2002

Analyzed: 11/12/2002 17:41

LCSD 2002/11/11-04.10-003

Extracted: 11/11/2002

Analyzed: 11/12/2002 18:18

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Diesel	35.8	37.4	41.6	86.1	89.9	4.3	60-130	25		
Surrogates(s) o-Terphenyl	17.0	17.3	20.0	85.1	86.4		60-130	0		

Submission #: 2002-11-0062

Diesel with Silica Gel Clean-up

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Project: Oakland Power Plant Confirmation Sampling Received: 11/04/2002 17:07

SEVERN

TRENT

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www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard