

ALAMEDA COUNTY ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS PROGRAM
INFORMATION PER SITE ON ALL DEPOSITS FROM ALL PAYORS

as of 08/08/2000

DATABASE: DEPREF

SITE INFORMATION from DepRef DB

P. G. & E.
4525 Hollis St
Emeryville CA 94608

StID: 65 Site#: 2286
Site Complete?

ALL PAYORS ON SITE

> Project# 2286A for Payor# 765

P G & E
4525 Hollis St
Emeryville CA 94608

DR:Wk

DEPOSIT INFORMATION

| Project# | Rcpt# | DepDate | DepAmount | Type | Proj Deposit Complete | Insp Init | Collect Fees? |
|----------|-------|---------|-----------|------|-----------------------|-----------|---------------|
|----------|-------|---------|-----------|------|-----------------------|-----------|---------------|

| | | | | | | | |
|-------|--------|------------|----------------------------|----------|------------|----|--|
| 2286A | <----- | | | | | | |
| | 704486 | 08/10/1993 | \$714.00 | R | 06/04/1992 | CL | |
| | | | Total Deposit for Project: | \$714.00 | | | |

| | | | | | | | |
|-------|--------|------------|----------------------------|------------|--|--|--|
| 2286B | <----- | | | | | | |
| | 842018 | 11/29/1999 | \$3,000.00 | | | | |
| | | | Total Deposit for Project: | \$3,000.00 | | | |
| | | | ----- | | | | |
| | | | Total Deps for all Sites : | \$3,714.00 | | | |

SH }
Report WkSht

LAST WORK DATE FROM BILLING ON THIS SITE:



510 337

EXTERNAL ONLY
ENVIRONMENTAL SERVICES DEPARTMENT
77 BEALE STREET, 24th FLOOR
SAN FRANCISCO, CA 94106
FAX: (415) 973-9201

DATE: August 7, 2000

TO: Susan Hugo

COMPANY: Alameda County

ADDRESS:

TELECOPY#: (510)337-9335 CONFIRMATION#: (510)567-6780

TOTAL NUMBERS OF PAGES INCLUDING COVER LETTER: 2

FROM PG&E: Sue Fandel

EXTERNAL#: (415) 972-5719 Fax# (415) 973-9201

COMMENTS: This letter has the schedule
for the remedial action of the
AST area at Emeryville.

IF YOU DO NOT RECEIVE ALL THE PAGES, OR IF YOU HAVE ANY QUESTIONS,
PLEASE CALL (415)973-9202.

Pacific Gas and Electric Company

August 2, 2000

Environmental Services
P.O. Box 7640
San Francisco, CA 94120
415/973-7000
Direct Dial 415/973-
Telecopy 415/973-9201



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

**Re: Schedule for Remedial Action Plan for PG&E's Emeryville Materials Facility
4525 Hollis Street, Emeryville**

Dear Ms. Hugo:

As we've discussed, remedial action of the former Aboveground Storage Tank (AST) Area is proceeding on an accelerated schedule in order to complete work by the rainy season. The approved schedule for the remedial action for PG&E's Emeryville Materials Facility is as follows:

| | |
|----------------|---|
| August 3 | AST Area Walk Through with Contractor |
| August 21-25 | Destroy Well ESE-1 |
| August 28- | Remove Soil; Fill with Clean Soil and |
| September 1 | Compact to 95%; Cover with a Concrete Cap |
| September 9-11 | Transport and Dispose of Soil |
| October 1-30 | Destroy Other Wells; Complete UST Investigation |
| November 30 | Submit Closure Report to Alameda County |

Details of the remedial action are outlined in the July 1999 Remedial Action Plan and discussed in the October 27, 1999 letter to you. Should you have any questions with regard to the schedule, please contact me at 415.972.5719.

Sincerely,

Susan Fandel

Susan Fandel
Environmental Specialist

cc: Jim Farrell
Fred Flint
Steve Grubb
Jesus Luna
Rudy Promani

pg(415)2530158

Pacific Gas and Electric Company

Environmental Services
P.O. Box 7640
San Francisco, CA 94120
415/973-7000
Direct Dial 415/973-
Telecopy 415/973-9201

August 2, 2000

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577



Re: Schedule for Remedial Action Plan for PG&E's Emeryville Materials Facility
4525 Hollis Street, Emeryville

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Sincerely,

A handwritten signature in cursive script that reads 'Susan Fandel'.

Susan Fandel
Environmental Specialist

cc: Jim Ferrell
Fred Flint
Steve Grubb
Jesus Luna
Rudy Promani

Listing of HAZMAT - FULL SITE HISTORY since 1987 for StID # 355
as of 08/01/2000 all Activity Codes

SITE NAME & ADDRESS:

PG&E - Electric Shop -- 4227 Hollis St , Emeryville CA 94608

InspDat Insp Act InspT StID Proj# COMMENTS DailBDat
=====

Archived Dailies:

| InspDat | Insp Act | InspT | StID | DRPro | Comment | DailBDat |
|------------|----------|-------|------|-------|-------------------------------------|----------|
| 02/19/1992 | RO | 75 | 0.5 | 355 | 1718A Transfer to LOP | -0- |
| 06/03/1992 | SH | 200 | 0.8 | 355 | -0- notification letter & RP search | -0- |
| 05/12/1993 | BO | 11 | 1. | 355 | -0- -0- | -0- |
| 05/12/1993 | BO | 51 | 1. | 355 | -0- -0- | -0- |
| 06/29/1993 | BO | 33 | 0.5 | 355 | -0- spoke to RP on closure of usts | -0- |

Current Dailies:

| InspDat | Insp Act | InspT | StID | DRPro | Comment | DailBDat |
|------------|----------|-------|------|-------|--|----------|
| 01/15/1998 | SH | 12 | 2. | 355 | 1718A On site; compalint inspection re: sheen, petroleum hydrocarbon going into the storm drain on Hollis & 53rd Stree. Construction activities on 53rd St. City of Emeryville, notified of the spill which was related to fueling of heavy equipment by city contractors. | |
| 01/15/1998 | SH | 14 | 1. | 355 | 1718A write letter to Jesus Luna (PG&E) re: complaint inspection conducted today. | |
| 01/15/1998 | SH | 200 | 1. | 355 | 1718A On site visit, locate monitoring wells, verify if surface spill run off related to USTs | |
| 04/17/1998 | SH | 200 | 1. | 355 | 17183 Reviewed site data, update | |
| 10/21/1998 | SH | 200 | 2.8 | 355 | 1718 Reviewed case files, prepare for meeting; three USTs removed; above ground tanks removed; up to 385 ppm PCBs in soil; four wells showed nd for PCBs, TEPH, | |

InspDat Insp Act InspT StID DRPro Comment DailBDat

| | | | | | | |
|------------|----|-----|-----|-----|---|--|
| | | | | | BTEX. Met at the site with Sue Fandel & Rudy Promani of PG&E; observed area of tank farm; covered with visqueen; need to evaluation gw flow direction(NW or NE); any data gap; are wells properly placed to evaluate impact of PBCs in gw or more data needed; any sensitive receptors (drinking water wells, creeks etc.) deed notice; RMP; closure summary for 3 USTs. | |
| 11/13/1998 | SH | 200 | 1. | 355 | 1718C Reviewed QMR; letter re: closure | |
| 02/03/1999 | SH | 200 | 0.5 | 355 | 1718A Talked to Susan Fandel (PG&E) re: closure for site | |
| 04/30/1999 | SH | 200 | 1. | 355 | 17183 Review QMR | |
| 05/17/1999 | SH | 200 | 1. | 355 | 1718C Reviewed QMR | |

| InspDat | Insp | Act | InspT | StID | DRPro | Comment | DailBDat |
|------------|------|-----|-------|------|-------|--|----------|
| 05/26/1999 | SH | 200 | 0.5 | 355 | 1718C | Talked to Sue Fandel re: site | |
| 07/21/1999 | SH | 200 | 1. | 355 | 1718R | Review QMR; RBCA report | |
| 07/22/1999 | SH | 200 | 1. | 355 | 1718R | Talked to Sue Fandel re: low risk closure for the site; | |
| 07/23/1999 | SH | 200 | 1. | 355 | 17181 | review gw data to confirm flow direction at the site. Review case file for meeting; Talked to SueFandel | |
| 08/04/1999 | SH | 200 | 0.5 | 355 | 17181 | Talked to Sue Fandel re: meeting | |
| 08/05/1999 | SH | 200 | 2. | 355 | 17181 | Meeting with Sue Fandel & Gary Flynt; discuss reports; presentation of site history; why 3 wells at site not being monitored; RBCA analysis for PCB's? | |
| 09/02/1999 | SH | 200 | 0.5 | 355 | 17182 | Discuss with Sue Fandel - low risk closure | |
| 09/27/1999 | SH | 200 | 0.3 | 355 | 1718 | talked to sue Fandel re: closure | |
| 09/29/1999 | SH | 200 | 0.5 | 355 | 17187 | discuss site closure with Sue Fandel | |
| 10/13/1999 | SH | 200 | 0.3 | 355 | 17187 | talked to Sue Fandel re; meeting | |
| 10/14/1999 | SH | 200 | 3. | 355 | 17180 | meeting with Sue Fandel & Gary Flynt re: closure process; review case file for AGST & UST. Will submit WP - steps to take | |
| 11/08/1999 | SH | 200 | 2. | 355 | 1718A | to achieve closure. Review RAP 10/28/1999 & PCB's risk assessment. | |
| 01/04/2000 | SH | 200 | 1. | 355 | 1718A | Review wp submittal for additional work at site. | |
| 05/02/2000 | SH | 200 | 0.3 | 355 | 17187 | Reviewed site data; update MTBE =nt | |
| 05/26/2000 | SH | 200 | 1. | 355 | 1718B | Review case file; Risk assessment compare with cleanup levels for Westinghouse. | |
| 07/11/2000 | SH | 200 | 1. | 355 | 1718B | Review case file; work plan | |

Complete

Pacific Gas and Electric Company

Environmental Services
P.O. Box 7640
San Francisco, CA 94120
415/973-7000
Direct Dial 415/973-
Telecopy 415/973-9201

November 18, 1999



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: PG&E Emeryville Materials Facility, 4525 Hollis St., Emeryville, CA 94608
(STID #355) Deposit/Refund Account

Dear Ms. Hugo:

Per your request, enclosed is a check for \$3,000 to establish a deposit/refund account for regulatory oversight by Alameda County Environmental Health Services at PG&E's Emeryville Materials Facility. This account is for work on the project to close the former above ground and underground storage tanks. We understand that any remaining funds after the project is complete are to be refunded to PG&E.

Also, enclosed is an EPRI technical brief, "Chemical-Physical Characteristics of Mineral Insulating Oils and Environmental Risk Analyses" that may be of interest to you.

We look forward to working with you on this project. If you have any questions, please contact me at (415) 972-5719 or Fred Flint at (925) 866-5808.

Sincerely,

A handwritten signature in cursive script that reads "Susan Fandel".

Susan Fandel
Environmental Specialist

Attachments

99 NOV 19 PM 2:05
ENVIRONMENTAL
PROTECTION

WARNING - THIS DOCUMENT CONTAINS A VOID PANTOGRAPH, COLORED BACKGROUND AND WATERMARK ON THE BACK



Pacific Gas and Electric Company

77 Beale Street,
San Francisco, CA

Mellon GCM
20 Cabot Rd
Medford, MA 02155

53-292
0113

Date: 11/16/1999

Check No. 7676734

Pay \$*****3,000.00*

*THREE THOUSAND***** AND 00/100 DOLLARS

To The Order Of

ACCOUNTS PAYABLE

ALAMEDA COUNTY ENV HLTH SVCS
1131 HARBOR BAY PKY #250
ALAMEDA CA 94502-6577

D.M. Hanney
SVP, CFO & TREASURER
Gabriel Togneri
ASSISTANT TREASURER

Re: PG&E Emeryville Materials Facility - 4525 Hollis St., Emeryville, CA 94608
(STID #355) Closure of former ASTs and USTs.

VOID AFTER 90 DAYS

⑈ 7676734

⑈ ⑆011302920⑆059978⑈

473799

Pacific Gas and Electric Company

Environmental Services
P.O. Box 7640
San Francisco, CA 94120
415/973-7000
Direct Dial 415/973-
Telecopy 415/973-9201

October 27 1999

ENVIRONMENTAL
PROTECTION
99 OCT 28 PM 4: 16

R0286



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Remedial Action Plan for PG&E's Emeryville Materials Facility,
4525 Hollis Street, Emeryville

Dear Ms. Hugo:

Per our meeting of October 14, 1999, this letter summarizes our discussion and numerates those steps we intend to take toward closure of the remedial investigation at our Emeryville Materials Facility at 4525 Hollis Street, Emeryville. As part of the closure process, PG&E will take action toward remediating the former aboveground storage tank (AST) area, as well as characterizing the groundwater in the former underground storage tank (UST) areas.

In our meeting on August 5, 1999, you requested the sampling of several monitoring wells located throughout the facility. The attached table summarizes the analytical results. None of the wells contained any of the tested analytes with the exception of Well MW-9, which contained toluene (1.8 ug/l) and xylenes (3.0 ug/l). Each well was analyzed for gasoline, benzene, toluene, ethylbenzene, xylenes, mineral oil, and polychlorinated biphenyls (PCBs). Methyl tertiary butyl ether (MtBE) was also analyzed in two selected wells. The results from Well MW-9 are well below California drinking water standards for the detected constituents and are likely due to laboratory contamination given the absence of these compounds in Well MW-10 which is adjacent to MW-9.

In March 1997, EMCON prepared a Risk Based Corrective Action (RBCA) Report for the former AST area. The RBCA evaluated the presence of PCBs at concentrations up to 385 mg/kg and Total Extractable Petroleum Hydrocarbons (Mineral Oil) at concentrations up to 1600 mg/kg in the soil. Mineral oil was not identified as a chemical-of-concern (COC). Mineral oil is a highly refined substance, and studies have demonstrated the low toxicity of this substance to human receptors. The report titled, "*Insulating Oil Characteristics Volume 1: Characterization Results*" issued by the Electric Power Research Institute (EPRI TR-106898-V1, December 1996, Palo Alto, California) is included for your use during the remedial action project. Please return the report after you are finished using it.

The RBCA report identified site-specific threshold levels (SSTL) for PCBs for potential human receptors at the site including construction, utility, and industrial workers. This report determined that the sole COC at the site was PCBs. The RBCA determined

that the SSTL for construction workers was 88 mg/kg of PCBs to a depth of 10 feet below ground surface (bgs) and was 1.3 mg/kg of PCBs for industrial workers to a depth of 2 ft. bgs. PG&E proposes to excavate selected soils within the former AST area such that remaining PCB concentrations do not exceed 25 mg/kg. Based on site data, this will require removal of soils to a depth of 9 ft bgs in selected areas. Subsequent addition of clean fill to the excavation and addition of fill to site grade (approximately 4 feet across the site) will ensure that SSTL-soil concentrations will be met for all evaluated human receptors.

PG&E will conduct specific remedial actions outlined in the July 1999 Remedial Action Plan, which was submitted to your office in a letter dated July 19, 1999, including:

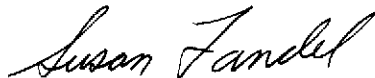
1. Removal of the plastic liner covering the former AST area;
2. Destruction of Well ESE-1 by pressure grouting per California Well Standards (Bulletin 74-90);
3. Excavation of the soils within the AST area where PCB concentrations exceed 25 mg/kg in soil;
4. Import clean fill into the excavated area of the former AST area to site-grade elevation with compaction to 95 percent;
5. Cap the former AST area with an impermeable material such as asphalt or concrete;
6. Collection of grab groundwater samples in the vicinity of each of the former USTs, including the former 500-gallon UST to be tested for the presence of MtBE.

Once these tasks are completed, a report will be prepared describing the results of the remedial efforts. This report will include a Site Conceptual Model and a Risk Management Plan. This report, combined with a deed restriction of the parcel, should allow the site to proceed toward conditional closure.

Your acceptance of this letter will allow PG&E to proceed with these remedial tasks with no further requirements of source removal in the AST area. Please sign in the space provided and return this document to my office at your earliest convenience.

Should you have any questions please contact me at 415.972.5719 or Fred Flint at 925.866.5808.

Sincerely,



Susan Fandel
Environmental Coordinator

Attachment

Ms. Susan Hugo
October 27, 1999
Page 3

Accepted by: _____
Susan Hugo
Alameda County Department of Environmental Health

Date: _____

Table 1

Emeryville Materials Facility - E&E Wells MW-4 through MW-10
Groundwater Monitoring Data

| Sample Designation | Sampling Date | Depth to Groundwater (ft) | TPH Gasoline ug/L | Benzene ug/L | Toluene ug/L | Ethylbenzene ug/L | Xylenes ug/L | MtBE ug/L | TEPH Mineral Oil ug/L | Polychlorinated Byphenols - Aroclor | | | | | | |
|--------------------|-----------------|---------------------------|-------------------|--------------|--------------|-------------------|--------------|-----------|-----------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | | | 1016 ug/L | 1221 ug/L | 1232 ug/L | 1242 ug/L | 1248 ug/L | 1254 ug/L | 1260 ug/L |
| MW-4 | 10/01/99 | 12.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <100 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-5 | 08/27/99 | 10.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | <100 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-6 | no well present | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 08/27/99 | 10.75 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | <100 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-8 | 10/01/99 | dry | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 08/26/99 | 11.23 | <50 | <0.5 | 1.8 | <0.5 | 3.0 | --- | <100 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-10 | 08/26/99 | 12.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <100 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

TEPH = total extractable petroleum hydrocarbons.

TPH = total petroleum hydrocarbons

µg/L = micrograms per liter.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



October 14, 1999

Ms. Sue Fandel
PG&E
Environmental Services
P.O. Box 7640
San Francisco, CA 94120

*RD# 286
open LOP*

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

**RE: PG&E Emeryville Maintenance Facility - 4525 Hollis Street, Emeryville, CA 94608
(STID # 355)**

Dear Ms. Fandel:

Our records indicate that a deposit / refund account for regulatory oversight of PCB release at the above subject site has not been submitted. Please submit a deposit of \$3,000.00 payable to Alameda County, Environmental Health Services.

We must receive this deposit so that future regulatory oversight on the subject site can proceed in a timely fashion. At the completion of this project, any unused monies will be refunded to you or your designee.

The deposit refund mechanism is authorized in Section 6.92.040L of the Alameda County Ordinance Code. Work on this project will be debited at the Ordinance specified rate, currently at \$ 100 per hour.

Please be sure to write the following on the check to identify your account:

- project #,
- type of project and
- site address (see RE: line above).

If you have any questions, please contact me at (510) 567-6780 or e-mail at shugo@co.alameda.ca.us.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Hazardous Materials Specialist

W: Thomas Peacock, Program Manager
SH / files

Pacific Gas and Electric Company

Environmental Services
P.O. Box 7640
San Francisco, CA 94120
415/973-7000
Direct Dial 415/973-
Telecopy 415/973-9201

ENVIRONMENTAL
PROTECTION

99 AUG 16 PM 4: 21

August 13, 1999



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Subject: Emeryville Materials Facility Remedial Action Plan

Dear Ms. Hugo:

We were glad to have met with you last Thursday to discuss our proposal for closure of the former Aboveground Storage Tanks (ASTs) and Underground Storage Tanks (USTs) at PG&E's Emeryville Repair Facility. We wanted to thoroughly review with you the Remedial Action Plan (July 1999) which we presented to you at our meeting on August 5, 1999.

Our presentation summarized the previous investigations and remedial actions regarding the three former USTs and four former ASTs. We also discussed closure of the 500-gallon UST, a limited groundwater survey in the vicinity of the two 5,000-gallon USTs and soil excavation in the area of the ASTs.

During the meeting, we agreed on several action items. They are as follows:

- ✓ • PG&E will request documentation from the City of Emeryville on the closure of groundwater monitoring well ESE-4. During construction by Chiron in 1998, well ESE-4 located on 53rd St. was destroyed. It is unclear whether the well was properly abandoned.
- ✓ • PG&E will test for MtBE. For the 500 gallon UST, two existing nearby wells will be sampled. For the two 5,000 gallon USTs, MtBE will be included in the analytical suite during the limited groundwater investigation. The AST wells ESE-1 through ESE-3 were recently analyzed for MtBE (May 1999). MtBE was not present in any of the wells. This information is being forwarded to you in the most recent quarterly monitoring report.
- ✓ • PG&E will work with the Department of Public Works to ensure proper closure of the seven abandoned wells used in 1987. The history of these wells will be researched. These wells will be analyzed for TPH, PCB and BTEX prior to destruction.

Ms. Susan Hugo
August 13, 1999
Page 2

As stated in the Remedial Action Plan, our proposed remedial action of the former AST area will be protective of human health for industrial workers at this facility. We would like to implement this plan prior to the winter rains and look forward to your prompt attention to this project.

Please know that Fred Flint and I are available to answer any questions. You can reach Fred at (925) 866-5808 and me at (415) 972-5719.

Sincerely,

A handwritten signature in cursive script that reads "Sue Fandel".

Susan Fandel
Environmental Specialist

10/21/98

SHD 355

4525 Hall's St Emeryville 94608

New contact person: Sue ~~Handel~~

12/22/93

3UG's removed

Overhead wires

Chuck Headle →

385 ppm PCBs →

Level 2 of closure summary



***Pacific Gas and
Electric Company***

3400 Crow Canyon Road
San Ramon, CA 94583

Linda L. Marshall

Associate Environmental Engineer
Technical and Ecological Services
Land and Water Quality Unit

925.866.5883
Internal: 251.5883
Pager: 925.509.7978



***Pacific Gas and
Electric Company***

3400 Crow Canyon Road
San Ramon, CA 94583

Frederick F. Flint, C.Hg.

Certified Hydrogeologist
Technical and Ecological Services

925.866.5808
Internal: 251.5808
Fax: 925.866.5681
Pager: 925.509.5154
Internet: fx15@pge.com

Call 925 890-2393

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

10/20/98

UNDERGROUND STORAGE TANK CLEANUP SITE

| | | |
|---|------------------------------|--------------------------|
| AGENCY#: 10000 | SOURCE OF FUNDS: F-FEDERAL | INSPECTOR: SH |
| StID: 355 | SUBSTANCE: 8008206 -Kerosene | |
| SITE NAME: PG&E Company | | DATE REPORTED : 11/19/91 |
| ADDRESS : 4525 Hollis St | | DATE CONFIRMED: 11/19/91 |
| CITY/ZIP : Emeryville, CA 94608 | | MULTIPLE RP's : N |
| CASE TYPE: S CONTRACT STATUS: 4 PRIOR:2B4 EMERGENCY RESPONSE: -0- | | |
| RP SEARCH : S | DATE BEGIN: -0- | DATE END: 06/04/92 |
| PRELIM ASSESSMENT : U | DATE BEGIN: -0- | DATE END: -0- |
| REMEDIAL INVESTIG : - | DATE BEGIN: -0- | DATE END: -0- |
| REMEDIAL ACTION : - | DATE BEGIN: -0- | DATE END: -0- |
| POST REMED MONITOR: - | DATE BEGIN: -0- | DATE END: -0- |
| TYPE ENFORCEMENT ACTION TAKEN: 1 DATE OF ENFORC. ACTION: 06/04/92 | | |

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

| | |
|--|----------------------------|
| LUFT FIELD MANUAL CONSIDERATION: 2HSAGAW | CASE CLOSED: - on: -0- |
| DT EXC START: 10/24/91 | REMEDIAL ACTIONS TAKEN: ED |

| | |
|--|--------------|
| RP #1: CONTACT: Mr. Gary Fairbanks ^{Steve Grubb} | RP COST: -0- |
| RP COMPANY NAME: Pacific Gas & Electric Co. | Ph: -0- |
| ADDRESS: 4525 Hollis Street | |
| CITY/STATE: Emeryville, California 94608 | |
| △MaMENT: | |

Change Note 10/14/99

Listing all LOP DAILY activities since 1991 for StID # 355
as of 10/20/98

Act91_4
Act92_1
Act92_2
Act92_3

| ActivDat | Insp | ACT | Activ | StID | ActCostF | aComment |
|----------|------|-----|-------|------|----------|---|
| 06/03/92 | SH | 200 | 0.8 | 355 | \$35.65 | notification letter & RP searc |
| Act92_4 | | | | | | |
| Act92_5 | | | | | | |
| Act93_1 | | | | | | |
| Act93_2 | | | | | | |
| Act93_3 | | | | | | |
| Act93_4 | | | | | | |
| 10/15/93 | SH | 212 | 0.4 | 355 | \$19.54 | talked to Mel Byrd re: deficiencies |
| 10/15/93 | SH | 215 | 1. | 355 | \$48.86 | review ugt removal application |
| 11/04/93 | SH | 212 | 0.3 | 355 | \$14.66 | talked to Mel Byrd re: status of ugt removal |
| 11/16/93 | SH | 212 | 0.4 | 355 | \$19.54 | talked to Michelle Boscoe re: status of bidding |
| 11/23/93 | SH | 212 | 0.4 | 355 | \$19.54 | talked to Michelle Boscoe re: award of contract |
| 11/30/93 | SH | 212 | 0.5 | 355 | \$24.43 | talked to Mel Byrd (PG & E) re: ugt removal application |
| 12/02/93 | SH | 212 | 0.5 | 355 | \$24.43 | talked to Mel Byrd re: deficiencies & completion of permit. |
| 12/02/93 | SH | 215 | 1.5 | 355 | \$73.29 | review ugt removal [permit] |
| 12/08/93 | SH | 212 | 0.5 | 355 | \$24.43 | talked to Michelle Boscoe re: ugt removal |
| 12/09/93 | SH | 215 | 1. | 355 | \$48.86 | review documents for UGT removal |
| 12/20/93 | SH | 212 | 0.6 | 355 | \$29.32 | talked to Bobbi (RAMCON) re: ugts removal |
| 12/22/93 | SH | 210 | 3.8 | 355 | \$193.47 | on site for 3 ugts removal |
| 12/28/93 | SH | 212 | 0.8 | 355 | \$39.09 | talked to Gary Forr (PG&E) re: results of soil samples & pending overexcavation |
| 12/29/93 | SH | 210 | 3. | 355 | \$154.38 | on site for overexcavation & sampling |
| Act94_1 | | | | | | |
| 01/12/94 | SH | 212 | 0.3 | 355 | \$15.25 | talked to Michelle Boscoe re: results of recent sampling |
| 01/13/94 | SH | 212 | 0.3 | 355 | \$15.25 | talked to Michelle Boscoe re: results of recent sampling (fax transmittal) |
| 01/13/94 | SH | 215 | 0.5 | 355 | \$25.42 | reviewed fax transmittal (analyticalresults). |
| 01/19/94 | SH | 215 | 0.4 | 355 | \$20.34 | review report, EPA ID # change |
| 02/04/94 | SH | 215 | 1.7 | 355 | \$86.43 | review Investigation & Subsurface Soil at PG&E (1/11/93) |
| 02/09/94 | SH | 215 | 2.8 | 355 | \$142.36 | review work plan, approval letter out |
| 02/10/94 | SH | 212 | 0.2 | 355 | \$10.17 | talked to mel Byrd re:report |
| 02/14/94 | SH | 212 | 0.5 | 355 | \$25.42 | talked to Mel Byrd re: work plan (1/11/94) & report |
| 02/15/94 | SH | 215 | 2.5 | 355 | \$127.11 | letter to PG&E re: work plan approval |

| | | | | | | |
|----------|----|-----|-----|-----|----------|---|
| 02/24/94 | SH | 212 | 0.5 | 355 | \$25.42 | talked to Michelle Boscoe re: ACHD letter |
| 03/09/94 | SH | 212 | 0.4 | 355 | \$20.34 | talked to Frederick Flint re: response |
| 03/09/94 | SH | 215 | 1. | 355 | \$50.84 | review response to 2/15/94 letter report |
| 03/15/94 | SH | 215 | 0.3 | 355 | \$15.25 | review letter 3/10/94 by PG&G |
| 03/23/94 | SH | 212 | 0.3 | 355 | \$15.25 | call from Fred Flint re: MW installations |
| Act94_2 | | | | | | |
| 05/23/94 | SH | 215 | 1. | 355 | \$53.31 | review report 5/13/94 |
| Act94_3 | | | | | | |
| Act94_4 | | | | | | |
| 10/20/94 | SH | 215 | 1.8 | 355 | \$95.95 | reviewed 5/94 report |
| 11/17/94 | SH | 212 | 0.3 | 355 | \$15.99 | talked to Michelle Boscoe (PG&E) |
| 11/18/94 | SH | 212 | 0.3 | 355 | \$15.99 | talked to Michelle Boscoe (PG&E) re: work requirements at the site |
| 12/01/94 | SH | 215 | 2. | 355 | \$106.62 | reviewed MW installation report |
| Act95_1 | | | | | | |
| 02/27/95 | SH | 215 | 2. | 355 | \$106.62 | reviewed 5/11/94 report. |
| 02/28/95 | SH | 215 | 1.5 | 355 | \$79.96 | letter re: further site assessment |
| 02/28/95 | SH | 215 | 2. | 355 | \$106.62 | reviewed report 5/13/94 |
| 03/13/95 | SH | 215 | 0.4 | 355 | \$21.32 | site update |
| 03/13/95 | TP | 215 | 0.2 | 355 | \$12.48 | supv. review |
| 03/16/95 | SH | 215 | 2.8 | 355 | \$149.26 | reviewed reports: one UST removal & 2 USTs removal, draft letter |
| 03/21/95 | SH | 215 | 1.5 | 355 | \$79.96 | letter out re: PSA submittal |
| Act95_2 | | | | | | |
| 04/20/95 | SH | 215 | 1. | 355 | \$53.31 | reviewed Letter report 4/12/95 |
| 04/26/95 | SH | 215 | 1. | 355 | \$53.31 | reviewed report 4/12/95 |
| Act95_3 | | | | | | |
| Act95_4 | | | | | | |
| Act96_1 | | | | | | |
| 03/07/96 | SH | 215 | 0.8 | 355 | \$46.36 | review files for meeting |
| Act96_2 | | | | | | |
| 06/10/96 | SH | 215 | 2. | 355 | \$111.39 | review case file, update site summary |
| Act96_3 | | | | | | |
| 07/15/96 | SH | 215 | 1.5 | 355 | \$82.87 | reviewed QMRs |
| Act96_4 | | | | | | |
| Act97_1 | | | | | | |
| Act97_2 | | | | | | |
| ACT97_3 | | | | | | |
| ACT97_4 | | | | | | |
| ACT98_1 | | | | | | |
| 01/15/98 | SH | 200 | 1. | 355 | \$53.40 | On site visit, locate monitoring wells, verify if surface spill run off related to USTs |
| ACT98_2 | | | | | | |
| 04/17/98 | SH | 200 | 1. | 355 | \$42.59 | Reviewed site data, update |

complete



July 28, 1998

Ms. Susan Hugo
Alameda County Department of Health Services
80 Swan Way
Oakland, CA 94621

Subject: PG&E's Emeryville Materials Facility Former Aboveground Oil Storage Tank Area

Dear Ms. Hugo:

Enclosed for your information are three reports titled "Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, 4525 Hollis Street, Emeryville, California, First Quarter 1998," "Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, 4525 Hollis Street, Emeryville, California, Second Quarter 1998," and "Risk Based Corrective Action Report, Former Aboveground Mineral Oil Storage Tank Area, Emeryville Materials Facility, Emeryville, California," prepared by EMCON.

The first report summarizes the groundwater flow direction, hydraulic gradient and the results of chemical analyses of groundwater samples collected in February, 1998. Findings of the groundwater monitoring performed this quarter include:

- The depth to groundwater ranges from 9.32 to 11.52 ft below the surface. Groundwater flow was to the northwest with a gradient of 0.02 ft/ft between wells ESE-2 and MW-4, and to the north-northeast with a gradient of 0.1 ft/ft between wells ESE-2 and ESE-1; and
- All compounds were below the method detection limit.

The second summarizes the groundwater flow direction, hydraulic gradient and the results of chemical analyses of groundwater samples collected in May 1998. Findings of the groundwater monitoring performed this quarter include:

- The depth to groundwater ranges from 10.27 to 13.56 ft below the surface. Groundwater flow was to the north with a gradient of 0.02 ft/ft between wells ESE-2 and MW-4, and to the north-northeast with a gradient of 0.05 ft/ft between wells ESE-2 and ESE-1; and
- All compounds were below the method detection limit.

5210 MW 9-00W 86
MAY 28 1998
77-1027-01041
10/27/98

The third report presents the results of a Risk Based Corrective Action (RBCA) Evaluation for the former Aboveground Storage Tank site dated March 1997. This report was done last year and we are not sure the report was sent to you due to personnel changes. The purpose of the report was to evaluate whether detected concentrations exceed exposure levels considered acceptable by various regulatory agencies. A Tier 1 evaluation was performed, which determined that only one chemical, polychlorinated biphenyls (PCB), exceeded screening values for both soil and shallow groundwater media. The presence of PCBs in groundwater was not evaluated further for the following reasons:

- Shallow groundwater in the area is not used as a drinking water source;
- The shallow aquifer at and near the site is considered a state "containment zone," in recognition of the heavy industrial use which historically characterizes the general area; and
- PCBs were detected only during one quarter (March 1995) in one well (ESE-1), and has not been present in groundwater since.

A Tier 2 evaluation was conducted for PCBs in soil for three receptor types: construction worker; utility line worker and future industrial worker. The study determined that the site may remain as is, with no further work, providing that the area is maintained with a impermeable cap.

We are interested in discussing closure of this site as you indicated in our telephone conversation last week. We would like to expedite closure so the site could be returned to active use by our transformer repair facility.

Should you have any questions or comments regarding these reports or our proposed remedial activities please call me at (415) 972 - 5719



SUSAN M. FANDEL
ENVIRONMENTAL SPECIALIST

cc: Derek Lee, San Francisco RWQCB



EXTERNAL ONLY
ENVIRONMENTAL SERVICES DEPARTMENT
77 BEALE STREET, 24th FLOOR
SAN FRANCISCO, CA 94106
FAX: (415) 973-9201

DATE: 8/5/98

TO: Susan Hugo

COMPANY: Alameda County Dept. of Health Services

ADDRESS: 1131 Harbor Bay Parkway #250 Alameda, CA 94502

TELECOPY#: 510-337-9335 CONFIRMATION#: 510-567-6700

TOTAL NUMBERS OF PAGES INCLUDING COVER LETTER: 3

FROM PG&E: Sue Fandel

EXTERNAL#: 415 972-5719

COMMENTS: I had the letter sent to the wrong address. The letter with reports is in the mail to your correct address now and should arrive by 10 AM tomorrow.

IF YOU DO NOT RECEIVE ALL THE PAGES, OR IF YOU HAVE ANY QUESTIONS, PLEASE CALL (415)973-██████



**Pacific Gas and
Electric Company**

Environmental Field Services

1919 Webster Street
Oakland, CA 94612

July 28, 1998

Ms. Susan Hugo
Alameda County Department of Health Services
80 Swan Way
Oakland, CA 94621

Subject: PG&E's Emeryville Materials Facility Former Aboveground Oil Storage Tank Area

Dear Ms. Hugo:

Enclosed for your information are three reports titled "Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, 4525 Hollis Street, Emeryville, California, First Quarter 1998," "Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, 4525 Hollis Street, Emeryville, California, Second Quarter 1998," and "Risk Based Corrective Action Report, Former Aboveground Mineral Oil Storage Tank Area, Emeryville Materials Facility, Emeryville, California," prepared by EMCON.

The first report summarizes the groundwater flow direction, hydraulic gradient and the results of chemical analyses of groundwater samples collected in February, 1998. Findings of the groundwater monitoring performed this quarter include:

- The depth to groundwater ranges from 9.32 to 11.52 ft below the surface. Groundwater flow was to the northwest with a gradient of 0.02 ft/ft between wells ESE-2 and MW-4, and to the north-northeast with a gradient of 0.1 ft/ft between wells ESE-2 and ESE-1; and
- All compounds were below the method detection limit.

The second summarizes the groundwater flow direction, hydraulic gradient and the results of chemical analyses of groundwater samples collected in May 1998. Findings of the groundwater monitoring performed this quarter include:

- The depth to groundwater ranges from 10.27 to 13.56 ft below the surface. Groundwater flow was to the north with a gradient of 0.02 ft/ft between wells ESE-2 and MW-4, and to the north-northeast with a gradient of 0.05 ft/ft between wells ESE-2 and ESE-1; and
- All compounds were below the method detection limit.

The third report presents the results of a Risk Based Corrective Action (RBCA) Evaluation for the former Aboveground Storage Tank site dated March 1997. This report was done last year and we are not sure the report was sent to you due to personnel changes. The purpose of the report was to evaluate whether detected concentrations exceed exposure levels considered acceptable by various regulatory agencies. A Tier 1 evaluation was performed, which determined that only one chemical, polychlorinated biphenyls (PCB), exceeded screening values for both soil and shallow groundwater media. The presence of PCBs in groundwater was not evaluated further for the following reasons:

- Shallow groundwater in the area is not used as a drinking water source;
- The shallow aquifer at and near the site is considered a state "containment zone," in recognition of the heavy industrial use which historically characterizes the general area; and
- PCBs were detected only during one quarter (March 1995) in one well (ESE-1), and has not been present in groundwater since.

A Tier 2 evaluation was conducted for PCBs in soil for three receptor types: construction worker; utility line worker and future industrial worker. The study determined that the site may remain as is, with no further work, providing that the area is maintained with a impermeable cap.

We are interested in discussing closure of this site as you indicated in our telephone conversation last week. We would like to expedite closure so the site could be returned to active use by our transformer repair facility.

Should you have any questions or comments regarding these reports or our proposed remedial activities please call me at (415) 972 - 5719



SUSAN M. FANDEL
ENVIRONMENTAL SPECIALIST

cc: Derek Lee, San Francisco RWQCB

EMERYVILLE REPAIR FACILITY



DATE: 1-30-98

TO: SILSAN HUGO

DEPT OR COMPANY: Alameda County

PHONE: 467-6780 FAX: (510) 337-9335

FROM: J. LUNA

DEPT: Emeryville Repair facility

PHONE: (510) 450-5734

FAX: (510) 450-5730

of pages including this cover page: 2

COMMENTS: A letter is on the mail
please call me if you have
questions.

JLUNA

If you do not receive all pages please call:

NAME: _____

PHONE NO: _____

Pacific Gas and Electric Company

Repair Facility
4525 Hollis Street
Emeryville, CA 94608-2999
510/649-3550

ENVIRONMENTAL
PROTECTION

50 FEB 10 AM 9:26

Jan 29, 1998



Susan Hugo
Hazardous Materials Specialist
Alameda Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Dear Susan,

This is to inform you that we have made the recommended repairs to our driveway at 53rd Street, Emeryville. The repairs were made on January 16, 1998.

We want you to know that we do not store any oil filled equipment in that portion of the yard.

Regarding the underground pipes, they were part of an old above ground tank system. The excavated site is still under active monitoring by your office.

If you have any questions, please call me at (510) 450-5734.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jesus E. Luna'. The signature is written in a cursive, somewhat stylized script.

Jesus E. Luna
Emeryville Repair Facility

JL:ism

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



January 15, 1998

STID 355

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Mr. Jesus Luna
Pacific Gas and Electric Co.
4525 Hollis Street
Emeryville, California 94608

RE: PG&E Emeryville Repair Facility - 4525 Hollis Street, Emeryville, CA 94608

Dear Mr. Luna:

This letter documents the inspection conducted today at the above referenced site concerning petroleum hydrocarbon discharge into the storm drains along 53rd Street. The reported spill appears to be related to surface spill run off due to heavy precipitation and the construction activities on 53rd Street. Mr. Juan Arreguin of Emeryville Public Works was notified of the surface run off discharge into the storm drains. However, during this inspection the following environmental issues were noted that are related to the subject site and must be addressed:

- 1) Two underground pipes sticking out of the west wall along the drive way on 53rd Street appears to be related to underground storage tanks and may have stored waste oil. Markings on that wall near the pipes states the words "tanks and waste oil". This agency has no information regarding the presence of tanks in this area. Please provide our office with documentation regarding the presence or absence of these tanks. If these tanks are abandoned and not being used, they must be removed under permit from this office. If the tanks have been removed, the pipings remaining at the site must be properly closed.
- 2) The surface run off system installed near the driveway had a break that must be corrected.

Due to the present and anticipated heavy precipitation in the future, issue #2 must be addressed immediately and submit a corrective action plan to this office in a timely manner.

With regards to issue #1, please respond within 30 days or no later than February 15, 1998.

If you have any questions regarding this letter, please call me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

c: Mee Ling Tung, Director, Environmental Health
Thomas Peacock, LOP / SH / files
Ariu Levi / Amir Gholami, Environmental Protection Division
Juan Arreguin, City of Emeryville, 2200 Powell Street, 12th Floor, Emeryville, CA 94608
Ric Notini, Chiron Corp., 4560 Horton Street, Emeryville, CA 94608



Pacific Gas and Electric Company

JESUS LUNA

~~Lindsay S. Martin~~
~~Operating Clerk~~
Electric Repair Facility

Emeryville Repair Facility
4525 Hollis Street
Emeryville, CA 94608-2999

~~510/450-5728~~
Fax 510/450-5730
Pager 510/801-5303

X 450-5734

Pacific Gas and Electric Company

Repair Facility
4525 Hollis Street
Emeryville, CA 94608-2999
510/649-3550

November 21, 1997



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Department
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E Groundwater Monitoring and Sampling Report
Pacific Gas and Electric Company Emeryville Materials Facility
Emeryville, California

Enclosed are two copies of the above referenced report, performed for the third quarter of 1997 ending in September. The report was prepared by EMCON Associates and summarizes groundwater flow direction, hydraulic gradient, and the results of laboratory chemical analyses of groundwater samples collected in August 22, 1997.

Findings of the report include:

- The depth to groundwater ranges from 10.55 to 14.35 ft. below the surface. Groundwater flow was to the north with a gradient of 0.03 ft./ft. between wells ESE-2 and MW-4.
- TEPH is present in well ESE-1 (740 ug/l). Ethylbenzene was present in well ESE-2 (0.51ug/l). All other compounds were below the method detection limit.

If you have any questions about this report, please call me at (510) 874-2277.

Sincerely ,


Tony Jacob
Environmental Specialist

Enclosures

cc: Rafat A. Shahid, Environmental health
Gil Jensen, Alameda County District Attorneys' Office
Gordon Coleman, Acting Chief, Environmental Protective Division
Kevin Graves, San Francisco RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

January 6, 1997

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe,
Senior Environmental Coordinator

ENVIRONMENTAL
PROTECTION
97 JAN 14 AM 8:56



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E's Groundwater Monitoring and Sampling Report,
Pacific Gas & Electric's Emeryville Material Facility, Emeryville, CA

Enclosed are two copies of the above-referenced report, performed for the third quarter of 1996 ending in November. The report was prepared by EMCON Associates, and summarizes groundwater flow direction, hydraulic gradient, and the results of laboratory chemical analyses of groundwater samples collected in November of 1996.

Findings of the report include:

- The depth to ground water ranges from 10.44 to 13.58 feet below the surface. Ground water flow was to the north between wells ESE-2 and MW-4 with a gradient magnitude of 0.02 ft/ft, and toward the south between wells ESE-4 and ESE-1 with a gradient magnitude of 0.06 ft/ft.
- BTEX, and PCBs were not detected at or above the method reporting limit (MRL) in any sample collected from ESE-1 through ESE-4. An unknown compound reported as TEPH in the mineral oil range is present in wells ESE-1 at 110 ug/l, and ESE-2 at 150 ug/l.

If you have any questions about this report, please call Rudy Promani at (510) 874-2656.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Michelle Boscoe'.

Michelle E. Boscoe
Senior Environmental Coordinator

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

October 15, 1996

Environmental Services
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Consultant
ENVIRONMENTAL
PROTECTION

96 OCT 25 PM 4: 2th



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Enclosed are two copies of the report on the additional soil investigation for the former above ground transformer oil storage area, Emeryville Repair Facility, Emeryville, California. The report describes additional field sampling conducted at my request, in July of 1996.

Results indicate that the soil beneath the former tanks consists of clayey to gravelly fill. PCB's were present in only two samples at concentrations of 0.26 mg/kg, and 0.13 mg/kg. Total extractable petroleum hydrocarbons are present at concentrations up to 13,000 mg/kg, centering primarily around a former oil transfer pump, in the southeastern quadrant of the former tank farm area.

Based on this latest study, and the historical data compiled from previous investigations included herein, PG&E intends to perform a limited Risk Evaluation based on the Risk-Based Corrective Action (RBCA) process, to determine acceptable cleanup levels and appropriate remedial actions. We will submit a report with conclusions to you as soon as practicable, after further limited investigation, evaluation and report compilation.

As always, please call me at (510) 450-5710, should you have any questions regarding this submittal.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michelle Boscoe', written over a horizontal line.

Michelle Boscoe
Senior Environmental Consultant
Corporate Environmental Services

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB
Matthew McCarron, Department of Toxic Substances Control, Region II

Pacific Gas and Electric Company

October 3, 1996

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E's Investigation of Removed Underground Storage Tanks, Pacific Gas & Electric's Emeryville Materials Facility, Emeryville, California

Enclosed are two copies of an investigation conducted on soils within the vicinity of the underground storage tanks closed under Alameda County auspices in December of 1993. Investigation and soils disposition were the result of construction work taking place near the UST site. The report shows evidence of the existence of total petroleum hydrocarbons (TPH) as mineral oil, and PCB's, beneath the fill area where excavation and pipe installation associated with construction was performed. Potential existence of these materials is not presently thought to pose a health and safety threat to employees or the public.

PG&E wishes to continue efforts toward full investigation and remediation of this tank site, subject to agency approval. A workplan submitted to Alameda County in May of 1995 outlined steps PG&E desires to pursue toward investigation. We ask that Alameda County either approve the workplan as submitted, or request amendments to the workplan for subsequent approval, so that work on continued subsurface investigation can proceed. Please contact me should you have any questions about the attached report, or the 1995 submitted workplan.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michelle E. Boscoe'. The signature is fluid and cursive, written over a white background.

Michelle E. Boscoe
Senior Environmental Consultant

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB
Matthew McCarron, Department of Toxic Substances Control, Region II

96 OCT - 8 AM 8:14
ENVIRONMENTAL PROTECTION

Pacific Gas and Electric Company

July 29, 1996

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E's Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, Emeryville, California

Enclosed are two copies of the above-referenced report, performed for the second quarter of 1996 ending in June. The report was prepared by EMCON Associates, and summarizes groundwater flow direction, hydraulic gradient, and the results of laboratory chemical analyses of groundwater samples collected in June of 1996.

Findings of the report include:

- The depth to ground water ranges from 10.23 to 13.94 feet below the surface. Ground water flow was to the north between wells ESE-2 and MW-4 with a gradient magnitude of 0.02 ft/ft, and toward the south between wells ESE-4 and ESE-1 with a gradient magnitude of 0.06 ft/ft.

Petroleum hydrocarbon, BTEX, and PCBs were not detected at or above the method reporting limit (MRL) in any sample collected from ESE-1 through ESE-4.

If you have any questions about this report, please call me at (510) 450-5710.

We have started work on the additional investigation of subsurface soils at the above referenced facility's site. Data generated from this report will be submitted to your office shortly.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michelle E. Boscoe'. The signature is fluid and cursive.

Michelle E. Boscoe
Senior Environmental Coordinator

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

56 AUG 16 PM 1:53
ENVIRONMENTAL PROTECTION DIVISION
SAN FRANCISCO

Pacific Gas and Electric Company

May 1, 1996

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E's Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, Emeryville, California

ENVIRONMENTAL
PROTECTION
96 MAY -6 PM 2:07

Enclosed are two copies of the above-referenced report, performed for the first quarter of 1996 ending in March. The report was prepared by EMCON, and summarizes groundwater flow direction, hydraulic gradient, and the results of laboratory chemical analyses of groundwater samples collected in March of 1996.

Findings of the report include:

- The depth to ground water ranges from 8.12 to 12.87 feet below the surface. Ground water flow was to the north between wells ESE-2 and MW-4 with a gradient magnitude of 0.03 ft/ft, and toward the south between wells ESE-4 and ESE-1 with a gradient magnitude of 0.06 ft/ft .
- TEPH which matches a transformer oil standard is present in well ESE-1 (277 ug/l). All other compounds were below the method detection limit.

If you have any questions about this report, please call me at (510) 450-5710.

I am also resubmitting under the same cover, two copies of the work plan for additional investigation of subsurface soils at Emeryville Materials Facility, dated June 2, 1995. PG&E

wishes to continue a proactive investigation of this site and would like to perform this work under Local Oversight. If we have not received any comments from you on the enclosed workplan by July 1, we will commence investigation work as outlined.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle E. Boscoe". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michelle E. Boscoe
Senior Environmental Coordinator

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator

December 7, 1995

95 DEC 14 PM 2:03

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577



Dear Ms. Hugo:

Re: PG&E's Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, Emeryville, California

Enclosed are two copies of the above-referenced report, performed for the third quarter of 1995 ending in September. The report was prepared by EMCON, and summarizes groundwater flow direction, hydraulic gradient, and the results of laboratory chemical analyses of groundwater samples collected in September of 1995.

Findings of the report include:

- The depth to-ground water ranges from 10.13 to 14.22 feet below the surface. Ground water flow was to the west to northwest with a gradient of 0.04 ft/ft respectively.
- TEPH which matches a transformer oil standard is present in well ESE-1 (470 ug/l). All other compounds were below the method detection limit.

If you have any questions about this report, or the work plan on the same site submitted previously, please call me at (510) 455-5710.

A handwritten signature in cursive script, appearing to read 'Michelle E. Boscoe'.

Michelle E. Boscoe, REA, RHSP
Senior Environmental Coordinator

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator

95 JUN 15 PM 1:36

June 13, 1995



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E's Work Plan for the Additional Investigation of Subsurface Soils at the
Emeryville Materials Facility, Emeryville, California

Enclosed is a draft copy of the above referenced work plan for your review. This work plan was compiled by our TES Registered Geologist and approved by me. This work plan addresses an investigation designed to further characterize the extent of transformer oil residues in subsurface soils in the vicinity of the former above-ground tank containment area, so that determination of further corrective action activities can then be addressed.

This work plan was requested by you in your letter dated February 28, 1995. It describes field and laboratory procedures, quality assurance and control, health and safety protocol, and emergency contacts and procedures.

Please do not hesitate to call me with any questions or comments at 510/450-5710.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Michelle E. Boscoe'. The signature is written in black ink on a white background.

Michelle E. Boscoe, REA, RHSP

Enclosures

cc: Rafat A. Shahid, Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator

May 30, 1995

ENVIRONMENTAL
PROTECTION
95 JUN -1 PM 2:04

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577



Subject: Groundwater Investigation of Emeryville Materials Facility

Dear Ms. Hugo:

Enclosed are two draft copies of TES's "Work Plan for a Groundwater Investigation near Two Former Underground Tanks at Emeryville Materials Facility, Emeryville, California" for your review. This work plan was compiled by our Registered Geologist and addresses a groundwater investigation designed to characterize the vertical and horizontal extent of transformer oil in the immediate vicinity of the former underground storage tank. This work was requested by you in your letter dated March 20, 1995. The work plan describes field and laboratory procedures, quality assurance and control, health and safety protocol and emergency contacts and procedures.

You also requested an investigation of an 800 gallon underground storage tank, located in Shop A, which was removed October 24, 1991. Further investigation of this tank is unwarranted for the following reasons:

1. Although samples collected during the excavation indicated the presence of petroleum hydrocarbons in the soil, over-excavation and subsequent sampling revealed no detectable levels of polychlorinated biphenyls, total petroleum hydrocarbons as gasoline or kerosene, or total oil and grease.
2. Groundwater was not encountered during the excavation.
3. Metal concentrations, although present, are well below total threshold limit concentrations and do not appear to be related to the underground storage tank per your letter of March 20, 1995.

Please contact me at (510) 450-5710 with any questions or comments you may have.

A handwritten signature in black ink, appearing to read 'Michelle E. Boscoe'. The signature is fluid and cursive.

Michelle E. Boscoe
Registered Environmental Assessor

MEB:js

cc: Rafat A. Shahid, Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator
ENVIRONMENTAL
PROTECTION

95 APR 13 PM 3:17

April 12, 1995



Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Department
Environmental Protection Division
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Re: Groundwater Investigation at Emeryville
Materials Facility - 4525 Hollis Street,
Emeryville California 94608

Dear Ms. Hugo:

I have received your letter dated February 28, 1995, regarding your review of PG&E's report entitled "Emeryville Materials Facility, Aboveground Tank Groundwater Investigation," issued May 12, 1994. Your letter requested PG&E address a number of items regarding the on-going soil and groundwater investigation at the site. In response to your request I have collaborated with a Registered Geologist, Frederick F. Flint, to provide the following information. For clarity, each item is restated followed by PG&E's response:

1) *TEPH as dielectric oil was detected in the soil at concentrations up to 2100 ppm (at 9 feet depth) and in groundwater at concentrations up to 340 ppb. BTEX was also detected in the soil at the following concentrations: 10 ppb benzene, 29 ppb toluene, 3 ppb ethylbenzene and 25 ppb xylenes. Groundwater showed BTEX at the following concentrations: 0.8 ppb benzene, 1.5 ppb toluene and 2.7 ppb xylenes. To date, the horizontal extent of the petroleum hydrocarbon contamination related to the former aboveground tanks remains undefined in the east and south area of the former tank farm. A work plan must be submitted to completely characterize the extent of the contaminant plume.*

PG&E, in an effort to be environmentally proactive regarding this site, has performed several investigations designed to define the horizontal and vertical extent of soil and groundwater contamination in the vicinity of the aboveground tank area. This work has been performed in a phased approach, with each successive element based upon prior findings. These studies consisted of the following:

- A shallow soil survey was conducted in October 1993, and included advancing 9 shallow solid borings in the vicinity of the aboveground tank area. Forty-two samples were analyzed by a state certified laboratory. Results showed PCBs and TEPH were present in localized areas immediately beneath the aboveground tank area. The vertical extent of these substances was well defined.
- A soil and groundwater investigation was conducted in March 1994, consisting of four soil borings converted to monitoring wells, in and immediately adjacent to the aboveground tank contamination area. PCBs were not present in soil or groundwater. TEPH and BTEX were found in the soil in two borings (ESE-1

Ms. Susan Hugo
Page 2
April 12, 1995

and ESE-2) and the groundwater in one monitoring well (ESE-2). Quarterly monitoring of wells was recommended in the report sent to you in May.

- In order to obtain the County's response to the above submitted report, I contacted you by telephone on November 17, 1994. At this time you agreed that pending your review of the report we should at least be monitoring the wells. A quarterly groundwater sampling program was then implemented at the four monitoring wells located in and around the aboveground tank area in December 1994.
- The results of groundwater monitoring performed in December 1994 are documented in an EMCON report entitled "Groundwater Monitoring and Sampling Report, Pacific Gas and Electric Emeryville Materials Facility, Emeryville, California," dated February 17, 1995, which is provided as an attachment to this letter. The report indicates neither PBCs nor BTEX compounds were present in the groundwater above the method detection limits. TEPH was present in well ESE-1 at a concentration of 80 ug/l. Groundwater flows to the east with a hydraulic gradient magnitude of 0.02 ft/ft
- Groundwater monitoring was performed on March 13, 1995. A formal report documenting the results of this effort will be forwarded to your office once the information is compiled.

Based on groundwater monitoring performed to date, groundwater beneath the site has not been impacted by PCBs, while petroleum hydrocarbons as TEPH are only present in one well at concentrations well below California Maximum Contaminant Levels (MCL). PG&E believes there is no evidence for expanding the scope of the present groundwater investigation; however, quarterly monitoring will be continued for one year to characterize seasonal fluctuations in groundwater quality and flow direction beneath the site.

Based on results of soil borings, further investigation of soil contamination is warranted, and PG&E will prepare workplan to investigate the extent of soil contamination to the south and east of the aboveground tank area. In undertaking the agreed-upon additional testing, PG&E will also be looking for evidence of outside sources of contaminants with no known PG&E origin. In particular, the occurrence of BTEX suggests that neighboring properties (i.e., Shell and the railroad right-of-way) may be the source for contamination that may have migrated onto PG&E's property. The work plan will be prepared under the direction of a California Registered Geologist and will be submitted to your office for approval prior to implementation.

2) Section 3, page 3-1 of the report indicated the BTEX concentration units as mg/kg. However, the analytical report showed BTEX concentration units as ug/kg. Please make a note of this discrepancy.

Analytical results for BTEX concentrations in solid are reported in ug/kg, as indicated in the laboratory analytical reports. The concentrations as you note, are mislabeled in the

Ms. Susan Hugo
Page 3
April 12, 1995

report. A corrected version of page 3-1 from TES report 402.331-94.10 is attached.

A small perched zone with water and product was found in soil boring ESE-2 at nine feet depth. The extent of this free product must be determined.

The vadose zone in the vicinity of ESE-2 will be evaluated in the proposed soil investigation discussed above (item #1).

Please submit a copy of the well completion diagram and boring log for MW-4. The rationale for the installation of MW-4 must be explained. Are there any other soil/groundwater investigations (past or present) at the site that required the installation of MW-4?

A copy of the boring log for well MW-4 is attached. This well was installed in 1984 in conjunction with an investigation performed by Ecology and Environment (San Francisco). The investigation was performed in anticipation of possible sale of the property. The work plan and final report entitled "Site Investigation of the Pacific Gas and Electric Company Materials Distribution Center in Emeryville, California" were submitted to the California Department of Health Service in 1984.

3) Groundwater monitoring wells (ESE-1, ESE-2, ESE-3, and ESE-4 and possibly MW-4) must be sampled at a minimum of every quarter for the following target compounds: TEPH, benzene, toluene, ethylbenzene, xylene and PCB. Groundwater elevation readings shall be incorporated in the monitoring program.

Per our conversation on November 17, 1994, quarterly groundwater monitoring was initiated in December 1994. Monitoring consists of water level measurements and groundwater sample and analysis for the parameters identified in your request. As stated previously, a copy of the report, "Groundwater Monitoring and Sampling Report Pacific Gas and Electric, Emeryville California" documenting the results of the December 1994 monitoring event is included with this letter. Results of monitoring performed in March 1995 will be submitted to your office when the information is available.

4) PCB concentration up to 385 ppm and TEPH up 16,000 ppm (found in soil boring B-1 and B-10 respectively) remain on site and must be remediated to acceptable levels which are protective [acceptable levels which are protective] to the public health and groundwater.

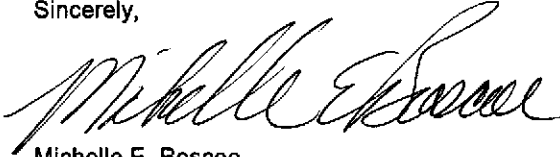
As previously indicated, PG&E will conduct additional solid borings and sampling to further define the horizontal extent of petroleum hydrocarbon contamination. The results of this proposed effort, along with previous soil investigations performed at the site, will provide the basis for determining appropriate remedial activities at the site. Future remedial actions will be determined in consultation with the Alameda County Environmental Health Department.

Ms Susan Hugo
Page 4
April 12, 1995

With regard to those items which you requested to be included in future reports or work plans, PG&E agrees to provide all information requested in future reports.

Please contact me at: (510) 450-5710, if you have any questions concerning this letter.

Sincerely,



Michelle E. Boscoe
Registered Environmental Assessor

(FFF(251-5808):ntw
cca04/11/95 10:59 AM(0709bltr.doc/ntw12)

Attachment

cc: Rafat A. Shahid, Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

bpc: FFFlint
DAGilbert
Rmoss
SMSanders
JJonas
JHolt

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 20, 1995
STID# 355

Ms. Michelle Boscoe
PG & E Repair Facility
4525 Hollis Street
Emeryville, California 94608

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

RE: Underground Storage Tank Removals at Emeryville Repair Facility - 4227 Hollis Street & 4525 Hollis Street, Emeryville, California 94608

Dear Ms. Boscoe:

This office has recently reviewed the case file regarding three underground storage tanks which were removed at the referenced sites.

On October 24, 1991, one 800 gallon underground storage tank (uncovered during the reinforcement of the building) was removed at 4227 Hollis Street. The tank appeared to contain kerosene and had been installed by previous owner prior to 1955. Soil sample collected from the west end bottom of the excavation found contamination at 460 ppm TPH gasoline, 6,230 ppm TPH kerosene, 115 ppm TOG, 0.1 ppm PCB, 88 ppm zinc, 1.43 ppm cadmium, 21.3 ppm lead, and 27.5 ppm chromium. Limited overexcavation was conducted on November, 1991. Confirmation soil samples collected from the bottom and the sidewalls of the excavation showed no detectable level of PCB, TPH gasoline, TPH kerosene, and TOG. Metals (21.5 ppm zinc, 0.33 ppm cadmium, 5.89 ppm lead, 22.4 ppm nickel, 18.2 ppm chromium) were detected in the confirmation samples. However, these metals do not appear to be related to the underground storage tank.

On December 22, 1993, two 5,000 gallon steel underground storage tanks used to store non PCB transformer oil were removed at 4525 Hollis Street site. The former tanks were decommissioned in 1986 and filled with water. Four soil samples were collected (one sample from each end of the tank) beneath the bottom of the tanks at approximately 10 feet below ground surface (bgs). Soil sample (PF-2) collected from the east end of the north tank indicated contamination as high as 2600 ppm TPH diesel, 2400 ppm oil & grease, 1.4 ppm PCB 1260, 2.2 ppm cadmium, 44 ppm chromium, 47 ppm lead, 110 ppm nickel, and 57ppm zinc. Limited overexcavation was conducted vertically (4 feet deeper) on December 29, 1993 and confirmation samples indicated the following residual soil contamination at the site: 300 ppm TPH diesel, 310 ppm oil & grease, 0.086 ppm PCB 1260, 1.6 ppm cadmium, 48 ppm chromium, 11 ppm lead, 220 ppm nickel, 50 ppm zinc.

Ms. Michelle Boscoe

RE: 4227 Hollis & 4525 Hollis Street, Emeryville

March 20, 1995

Page 2 of 3

Clearly, a release associated with the former underground storage tanks had occurred at the referenced site. The vertical and lateral extent of the soil and /or groundwater contamination must be determined. A work plan must be submitted to this office **no later than May 31, 1995.**

Until cleanup is complete, you will need to submit reports to this office every three months (or at a more frequent interval, if specified at any time by this agency). In addition, the following items must be incorporated in your future reports or workplans:

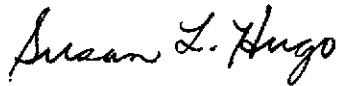
- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or workplan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

Ms. Michelle Boscoe
RE: 4227 Hollis & 4525 Hollis Street, Emeryville
March 20, 1995
Page 3 of 3

Please contact me at (510) 567-6780 if you have any questions concerning this letter.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection
Division / files
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

LOP - RECORD CHANGE REQUEST FORM

printed:
03/13/95

Mark Out What Needs Changing and Hand to LOP Data Entry
(Name/Address changes go to Annual Programs Data Entry)

Insp: SH

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8008206
 StID : 355 LOC:
 SITE NAME: PG&E Company DATE REPORTED : 11/19/91
 ADDRESS : 4525 Hollis St DATE CONFIRMED: 11/19/91
 CITY/ZIP : Emeryville 94608 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S CONTRACT STATUS: 4 PRIOR CODE:2B4 EMERGENCY RESP:
 RP SEARCH: S DATE COMPLETED: 06/04/92
 PRELIMINARY ASMNT: U DATE UNDERWAY:
 REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
 REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
 POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 06/04/92
 LUFT FIELD MANUAL CONSID: 2HSAGAW
 CASE CLOSED: DATE CASE CLOSED:
 DATE EXCAVATION STARTED : 10/24/91 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Mr. Gary Fairbanks
 COMPANY NAME: Pacific Gas & Electric Co.
 ADDRESS: 4525 Hollis Street
 CITY/STATE: Emeryville, California 94608

| INSPECTOR VERIFICATION: | | | | | |
|---------------------------|-----------|-----|-----------------------|------|------|
| NAME | SIGNATURE | | | DATE | |
| Name/Address Changes Only | | | | | |
| DATA ENTRY INPUT: | | | | | |
| ANNPCGMS | | | Case Progress Changes | | |
| LOP | DATE | LOP | DATE | LOP | DATE |

[ESC] Done [F2] Clear field [Shift-F2] Clear to end [Shift-F10] More
Form: dep Table: SITES Field: Site# Page: 1

Hazardous Material's Deposit Refund System

Edit Save Add new Delete Reset Previous Next Quit

Site #: 2286 StID#: 65 LookUp-PAYOR #:64 Sitelst: 468, 46,
Site Name: P. G. & E. Paradiso Constrction Co 2514, 2457,
Address: 4525 Hollis St Address: 2600 Williams St P O Box 183
City: Emeryville Zip: 94608 City: San Leandro CA Zip: 94577
Contact: Michelle Boscoe Contact: Michelle Boscoe
Phone #: 510 649-3310 Phone #: 510/649-3310
Code: 1
Unauthorized Release? (y/n) Receipt #'s: 704486
Date Site Complete: Type List:
Payor Links: 765-b, 64-a R,

| PROJ# | DATE: | RCPT#: | CHECK #: | \$AMOUNT | Type: R,I,M | #TANKS | DATE DEP | COMPLETE | INSP |
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Form: dep Table: SITES Field: Site# Page: 1

***** Alameda County Department of Environmental Health *****
Deposit/Refund Account History

** PROJECT INFORMATION **

Project#: --2286A Date Open: 08/10/93 Date Closed:

Payor Information:

Site Information:

PACIFIC GAS & ELECTRIC CO.
77 BEALE STREET
SAN FRANCISCO CA

P.G. & E.
4525 HOLLIS STREET
EMERYVILLE CA 94608

** DEPOSIT HISTORY **

| Deposit Date | Receipt# | Amount Received |
|--------------|----------|-----------------|
| ----- | ----- | ----- |
| 08/10/93 | 704486 | 714.00 |
| | | ----- |
| | | 714.00 |

STIP 355 & 65 were combined into STIP 355
 This case became LOP on 6-4-92
 and the check should have
 been returned. The take removal for STIP
 65 was done afterwards and LOP STIP 355.

Tom & Anne



EXTERNAL ONLY
ENVIRONMENTAL SERVICES DEPARTMENT
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, 24th FLOOR
SAN FRANCISCO, CA 94106
FAX: 223-9201/(415) 973-9201

refer to 514
per 1 case
below
3-10-95
JSP

DATE: 3/7/95

TO: Juliette Blake

COMPANY: Alameda Co. Haz Mat Division

ADDRESS: 1131 Harbor Breez Parkway, Suite 250, Alameda, CA
94502-6577

TELECOPY#: 510-337-9335 CONFIRMATION#: 510-567-6700

TOTAL NUMBER OF PAGES INCLUDING COVER LETTER: 1

FROM: Susan Sanders

INTERNAL #: _____ EXTERNAL #: 415. 973. 7734 *

COMMENTS: Please contact me to arrange an appointment

for file review of the following:
HHTD
UGT
Gen
① All files related to the 4525 Hollis Street STID 355
514
PG&E Emeryville facility property
(Parcel #44-1041-29)

② In case of questions, please ensure
the availability of Ms. Susan Hugo on the
review date.

IF YOU DO NOT RECEIVE ALL THE PAGES, OR IF YOU HAVE ANY QUESTIONS,
PLEASE CALL 223-9202/(415) 973-9202.

Thank you,
Susan Sanders

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 28, 1995
STID# 355

Ms. Michelle Boscoe
PG & E Repair Facility
4525 Hollis Street
Emeryville, California 94608

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

(510) 211-7000

**RE: Groundwater Investigation at Emeryville Materials
Facility - 4525 Hollis Street, Emeryville, California 94608**

Dear Ms. Boscoe:

This office has recently reviewed the case file regarding the soil and groundwater investigation at the referenced site. We are in receipt of the report "Emeryville Materials Facility, Aboveground Tank Groundwater Investigation" (May 12, 1994) prepared by PG & E Technical and Ecological Services (TES) which documents the work completed (i.e. advancing / sampling four soil borings and completion of the soil borings as groundwater monitoring wells) to assess the release associated with the former transformer oil tanks at the subject site.

Based on this review, the following items must be addressed regarding the on-going soil and groundwater investigation at the site:

- 1) TEPH as dielectric oil was detected in the soil at concentrations up to 2100 ppm (at 9 feet depth) and in ground water at concentrations up to 340 ppb. BTEX was also detected in the soil at the following concentrations: 10 ppb benzene, 29 ppb toluene, 3 ppb ethyl benzene and 25 ppb xylenes. Groundwater showed BTEX at the following concentrations: 0.8 ppb benzene, 1.5 ppb toluene and 2.7 ppb xylenes. To date, the horizontal extent of the petroleum hydrocarbon contamination related to the former aboveground tanks remains undefined in the east and south area of the former tank farm. A workplan must be submitted to completely characterize the extent of the contaminant plume.
- 2) Section 3, page 3-1 of the report indicated the BTEX concentration units as mg/kg. However, the analytical report showed BTEX concentration units as ug/kg. Please make a note of this discrepancy.
- 3) A small perched zone with water and product was found in soil boring ESE2 at nine feet depth. The extent of this free product must be determined.

Ms. Michelle Boscoe
RE: 4525 Hollis Street, Emeryville, CA 94608
February 28, 1995
Page 2 of 3

- 4) Please submit a copy of the well completion diagram and boring log for MW-4. The rationale for the installation of MW-4 must be explained. Are there any other soil / groundwater investigations (past or present) at the site that required the installation of MW-4 ?
- 5) Groundwater monitoring wells (ESE1, ESE2, ESE3, ESE4 and possibly MW4) must be sampled at a minimum of every quarter for the following target compounds: TEPH, benzene, toluene, ethyl benzene, xylene and PCB. Groundwater elevation readings shall be incorporated in the monitoring program.
- 6) PCB concentration up to 385 ppm and TEPH up 16,000 ppm (found in soil boring B-1 and B-10 respectively) remain on site and must be remediated to acceptable levels which are protective acceptable levels which are protective to the public health and groundwater.

Response to all items mentioned above must be submitted to this office no later than April 28, 1995.

Until cleanup is complete, you will need to submit reports to this office every three months (or at a more frequent interval, if specified at any time by this agency). In addition, the following items must be incorporated in your future reports or workplans:

- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or workplan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels

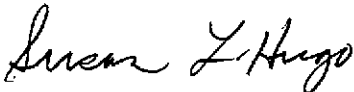
Ms. Michelle Boscoe
RE: 4525 Hollis Street, Emeryville, CA 94608
February 28, 1995
Page 3 of 3

- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

Please contact me at (510) 567-6780 if you have any questions concerning this letter.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection
Division / files
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

Pacific Gas and Electric Company

Technical and Ecological Services
3400 Crow Canyon Road
San Ramon, CA 94583
510/820-2000

ALCO
HAZMAT
94 MAR 14 PM 2:50

STIP 3/17



March 10, 1994

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Dear Ms. Hugo:

This letter is in response to our telephone conversation on March 9, 1994, during which we discussed a few items contained in my letter to you dated March 4, 1994, regarding our response to your letter of February 15, 1994.

In our conversation two topics were discussed. First, you granted 60 days for submittal of the report, beginning with commencement of field work. Second, you expressed your interest in having the boreholes sampled for total petroleum hydrocarbons as diesel as well as benzene, toluene, ethyl benzene, and xylenes.

As agreed in our conversation, one soil sample from each boring (i.e., the sample collected at the air/water interface) will be sampled for the above mentioned compounds. If the compounds are present in the soil sample then the ground water sample will be tested for those compounds found in the soil sample.

We will continue to proceed with the work plan. Field work should be scheduled within the next two weeks but will depend upon equipment availability. You will be notified prior to commencement of field work. Should you have any questions or comments please call me at (510) 866-5808 or Darrell Klingman at (510) 866-5883.

Sincerely,

Frederick F. Flint

94 MAR -8 PM 2: 02

XID 355

March 4, 1994



Ms. Susan L. Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

3/9/94
talked to Frederick line
I go days for report submitted
2) revised to run TPH diesel / BTEX
in addition to PCBs.

✓ agreed to analyze for TPH/d, BTEX
in one boring plus boring
at soil/water interface. This
will not be tested!

Dear Ms. Hugo:

This letter is in response to your letter of February 15, 1994 to Mr. Melvin Byrd of PG&E. In your letter eleven items were identified, stating acceptance of the work plan would be granted once PG&E addressed these items. Each item is restated for clarification:

- 1) *During borehole advancement, soil samples must be collected at a minimum of every five feet in the unsaturated zone, significant changes in lithology and where field screening identifies the presence of contaminants. The selection of samples chosen for laboratory analysis should be based primarily on field evidence. A minimum of one sample submitted for analysis from each boring must be from the saturated/unsaturated zone interface.*

Each boring will be continuously sampled. At least one sample from every five feet of penetration will be submitted for analysis. One sample collected just above the air/water interface will be submitted for analysis.

- 2) *A minimum of 24 hours, and preferably 72 hours should pass between well development and purging/sampling.*

At least 72 hours will pass between well development and purging and sampling of each well for chemical analysis.

- 3) *Wells should be surveyed to an accuracy of 0.01 foot and referenced to a common bench mark such as mean sea level (MSL).*

Once installed, the tops of the well casings will be surveyed to a common datum to an accuracy of 0.01 foot.

- 4) *Please submit copies of the manifest for disposal of any hazardous waste generated during the investigation.*

PG&E will submit to Alameda County any copies of manifests used for disposal of hazardous wastes generated during the investigation. Please note that disposal of waste and submittal of the report may not coincide due to regulatory requirements and that this information may be submitted separately.

- 5) *Soil and groundwater samples must be analyzed for the following target compounds: PCB, TPH diesel, benzene, toluene, ethyl benzene, and xylenes.*

PG&E agrees to sample soil and groundwater for PCBs and mineral oil, compounds known to have been stored in the former above ground tanks. No record exists that any other compounds were placed in these tanks and therefore testing for additional compounds is unwarranted.

- ✓ 6) *Submit a site map which illustrates the location of the monitoring well (MW-4) referenced in the subsurface investigation report. Please cite this well relative to the proposed four monitoring wells.*

Enclosed is a figure indicating the position of well MW-4 relative to the proposed wells.

- ✓ 7) *The four monitoring wells to be installed must be identified (i.e. MW-1, MW-2, MW-3, MW-4).*

Once installed the monitoring wells will be designated such that they can be distinguished from one another as well as other nearby wells.

- 8) *Groundwater monitoring wells must be sampled at a minimum of every quarter and groundwater elevation readings must be incorporated in the monitoring program.*

- ✓ Once the wells are installed and results of the investigation have been submitted to the lead agency, PG&E will initiate a quarterly monitoring program which will gauge and sample the wells for a period of at least one year.

- 9) *PCB concentration up to 385 ppm and TEPH up to 16,000 ppm (found in soil boring B-1 and B-10 respectively) remain on site and must be remediated to acceptable levels which are protective to the public health and groundwater.*

- ✓ Once the vertical and lateral extent of PCB and TEPH concentrations have been addressed, PG&E will then proceed to determine the best way to remediate these contaminants based upon such considerations as effectiveness, duration, cost and impact to public health and groundwater.

- 10) *Recall that the following contaminant source areas exist on site: B-10 (10,000 ppm TEPH); B-12 (16,000 ppm TEPH); B-7 (7,700 ppm TEPH); B-1 (385 ppm PCB); B-16 (185 ppm PCB); B-9 (93 ppm PCB). Only one of the proposed well is located proximal to source area B-10. The threat or impact to groundwater of the remaining source area should be investigated.*

March 4, 1994
Susan L. Hugo
Page 3

Given the results of the previous investigation, definition of the soil contamination within the former above ground tank area is well identified. One well within this former tank area should be sufficient to identify water quality within this area, while the other proposed wells will be used to establish groundwater flow direction and gradient magnitude as well as water quality at these locations.

- 11) *Please notify this office at least 72 hours in advance for the start up of the work plan implementation so a site visit can be arranged by a representative of this office.*

Your office will be notified 72 hours in advance of any field work planned in connection with the work plan.

✓ We request that you grant 60 days for submittal of the report, beginning with commencement of field work associated with the project. Due to unexpected events and laboratory turn around times, the 45 day limit may be difficult to achieve.

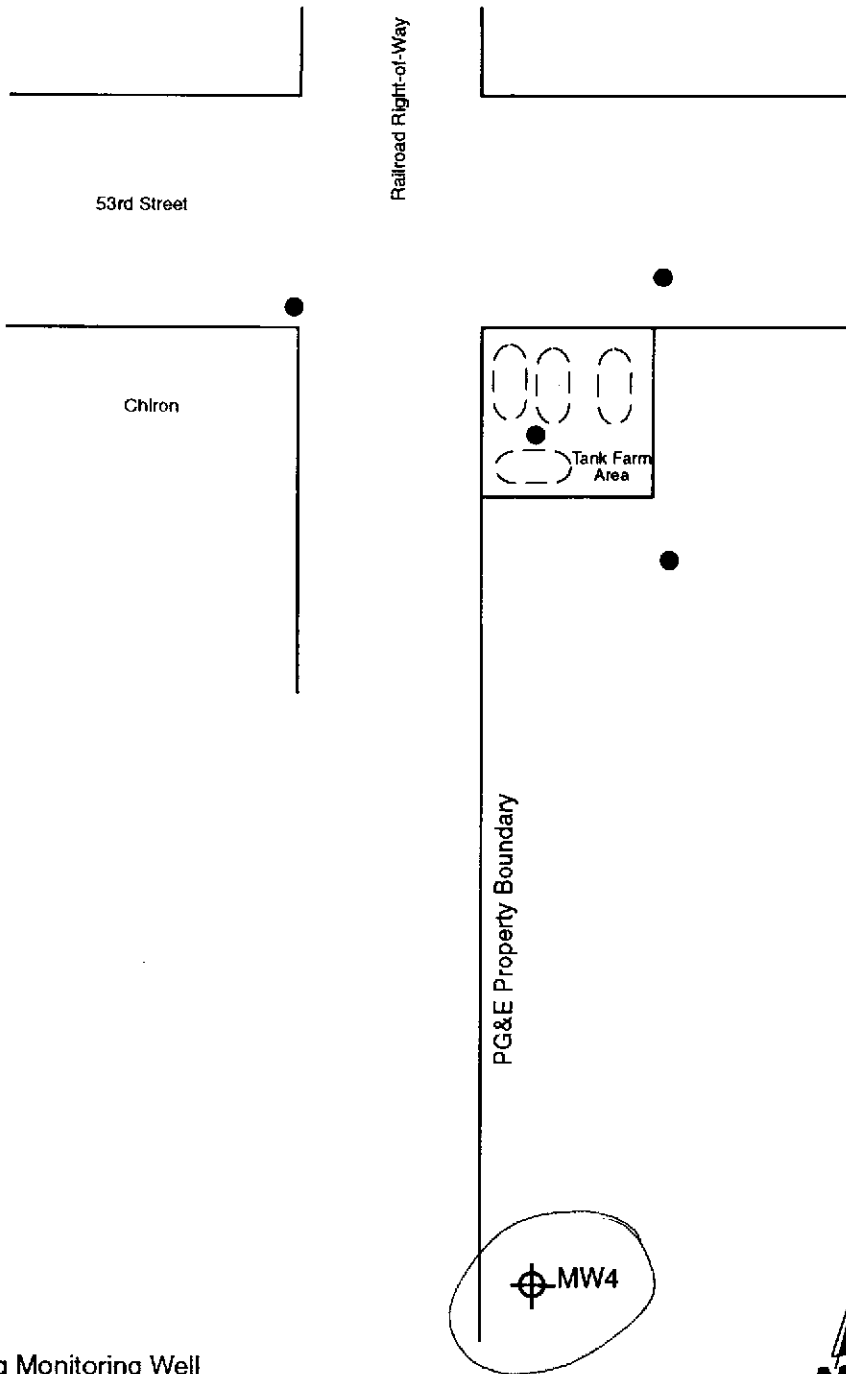
We agree to submit to your office reports on a quarterly basis which will include all information requested.

We hope these conditions are acceptable to you. We look forward to proceeding with the work plan. Should you have any questions or comments please call me at (510) 866-5808 or Darrell Klingman at (510) 866-5883.

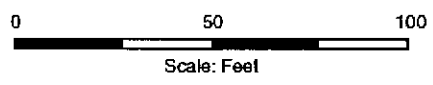
Sincerely,


Frederick F. Flint

Enclosure



- ⊕ Existing Monitoring Well
- Proposed Soil Boring and Monitoring Well Locations
- Approximate Location of the Former Above-Ground Tanks



Proposed soil boring and monitoring well locations, Emeryville Materials Facility.

| | | | |
|-------------------|---------------------------------------|----------------------------|---------------|
| Documents: | CA. UST Permit Applications- | Form A & B, (Temp Abd) | 07-31-91 |
| | Precision Tank & Line Testing- | Two 5,000 gallon tanks | 07-31-91 |
| | 2 Non-Hazardous Waste Data Forms- | 10,818 gallons UST Water | 12-10-93 |
| | 1 Non-Hazardous Waste Data Form- | 608 gallons UST Water | 12-22-93 |
| | Certified Excavation & Shoring Plan | | 12-02-93 |
| | 1 Uniform Hazardous Waste Manifest- | Two 5,000 gallon UST's | 12-22-93 |
| | Certificates of Tank Destruction- | Two 5,000 gallon UST's | 01-03-94 |
| | 12 Uniform Hazardous Waste Manifests- | 246 Tons of Soil | 01-27 & 28-94 |
| | 1 Bill of Lading- | 1,800 gallons, Rinse Water | 01-28-94 |
| | 1 Uniform Hazardous Waste Manifest- | PCB waste & equipment | 02-01-94 |

| | <u>West Log #</u> | <u>Comments</u> | <u>Date</u> |
|--------------|-------------------|--|-------------|
| Data: | Sparger | UST Water Samples | 12-01-93 |
| | #8211 | Tank Removal Excavation & Stockpile Soil Samples | 12-22-93 |
| | #8252 | Over Excavation & Stockpile Soil Samples | 01-29-93 |

Previous Reports: RAMCON was not provided with any reports concerning the subject site.

Tank Data: Based on statements from PG&E personnel, the two 5,000 gallon single-walled steel UST's were used to store Non-PCB Transformer Oil. The tanks were decommissioned by PG&E in 1986. The tanks were temporarily abandoned by rinsing the tanks out and filling them with water. The Underground Storage Tank Permit Application for "Temporary Tank Closure"- Forms A & B and Precision Tank & Line Test Results from 1991 have been attached in Appendix 2.

Groundwater: The depth to groundwater underlying the former tank is estimated to be 12 feet below grade. Note: Grade is measured from the loading dock which is 3 feet above the street grade. The estimated depth to groundwater is based on information provided by PG&E.

TESTING & DISPOSAL OF WATER FROM TANKS:

Prior to removal of the tanks; the water used to decommission the tanks, needed to be properly profiled and disposed of at a licensed facility. On 12-01-93, a RAMCON field technician collected two water samples from each tank. The samples were transported under chain-of-custody to Sparger Technology for analyses. Sparger is a DOHS CAL ELAP certified laboratory, #1614. The water was analyzed for Total Oil & Grease and for PCB's using EPA method 8080. The northern tank sample, N1, was free of Oil & Grease and PCB's above the laboratory reporting limits. The southern tank sample, S1, contained 600,000 ug/L Oil and Grease and no PCB's above the laboratory reporting limits, (Appendix 3).

On 12-10-93, a total of 10,818 gallons of water was pumped from the tanks into two trucks operated by Erickson Inc. Erickson Inc. transported the water under a Non-Hazardous waste Data Forms to Gibson's Pilot facility located in Redwood City, CA for recycling. Copies of the two Data Forms are attached in Appendix 2.

UNDERGROUND STORAGE TANK REMOVAL & DISPOSAL:

Prior to removal of the two tanks; the overlying concrete was saw cut and removed from the area. Following the attached excavation & shoring plan, (Appendix 2), the shoring was installed around the tanks: with dimensions of 24.5 feet by 25 feet to a depth of 20 feet. While installing the shoring, a concrete vault was uncovered along the north side of the tank pit between the tank pit and the building. The vault was 4 feet wide, 9 feet long, and 6 feet deep. Approximately 2 feet of the vault extended into the tank pit; consequently the upper portion of the vault was demolished in order to install the horizontal waler on the north side of the excavation. The concrete rubble from the upper portion of the vault and the soil contained in the vault was removed and stockpiled separately from the tank overburden soil. After installing the shoring, the overburden soil was removed from tanks, loaded directly into trucks and placed across the street in a prearranged stockpile area. All soil was placed on and covered with plastic.

On 12-22-93, RAMCON personnel prepared to remove the tanks. An additional 608 gallons of water was pumped from the tanks by Erickson Inc. Erickson Inc transported the water under Non-Hazardous Waste Data Forms to Gibson's Pilot facility located in Redwood City, CA. A copy of the Data Form is attached in Appendix 2. The tanks were inerted with dry ice, removed from the excavation, inspected, and then loaded onto a truck operated by Erickson Inc. The tanks were transported under manifest to Erickson's Richmond, CA. facility for proper destruction and disposal. The Uniform Hazardous Waste Manifest and certificates of tank destruction have been attached, (Appendix 2).

Representatives from the Emeryville Fire Department, Alameda County DOHS, and PG&E were on site to observe the tank removal work and soil sample collection. The tanks appeared to be in good condition. The soil in the north east corner of the former UST's pit floor appeared to be stained a greenish color. No significant hydrocarbon odors were noted during the removal of the tanks and no water was noted in the floor of the excavation. The tanks were originally buried with 18 inches of cover soil, so the tank imprints were at a depth of 9.5 feet below grade, (Appendix 1, Plate 2).

Soil Sample Locations- Following the removal of the tanks, a technician from Western Environmental Science & Technology (WEST) collected soil samples from the following locations:

| | |
|-----------|--|
| PF-1 | West end of the north tank at 10 feet below grade. |
| PF-2 | East end of the north tank at 10 feet below grade. |
| PF-3 | West end of the south tank at 10 feet below grade. |
| PF-4 | East end of the south tank at 10 feet below grade. |
| Stk1(A-D) | Tank Overburden Stockpile composite sample |
| Stk1(F-G) | Tank Overburden Stockpile composite sample |
| Stk2(A-B) | Vault fill soil Stockpile composite sample |

Please refer to Appendix 1, Plate 2 for a site map showing the sample locations, excavation dimensions, and location of the concrete vault. All soil samples were collected under the direction of a representative of the County of Alameda DOHS.

Sample Collection- Using a backhoe, soil was removed from the floor of the excavation. The samples were collected from the backhoe bucket by pounding a clean brass sleeve into a freshly exposed surface of native soil. The discrete stockpile soil samples were collected by digging into the soil 18" and pounding a 2" by 3" brass sleeve into a freshly exposed surface. All sleeves were inspected to insure that no head space was present in either end of the sleeve and then sealed with teflon tape, plastic caps, and duct tape. The sleeves were then labeled, placed on ice, and transported under chain-of-custody to WEST for analyses. WEST is a CA DOHS certified laboratory, #1346. Note: The discrete stockpile soil samples were composited in the laboratory and then analyzed.

Analyses- At the request of PG&E and the County of Alameda DOHS; the seven samples collected at the site were analyzed for the following:

PG&E Emeryville: Tank Removal & Soil Remediation Summary

February 22, 1994

RAMCON Job #649001

Page 5

| | |
|---|------------------------|
| BTEX, TPH as Gasoline & TPH as Diesel & Motor Oil | EPA 8020/8015 modified |
| Total Oil & Grease | |
| Volatile Halocarbons | EPA 8010 |
| Semi-Volatile Organics | EPA 8270 |
| PCB's | EPA 8080 |
| Five TTLC Metals (Cd, Cr, Pb, Zn, Ni). | |

Referring to the analytical summary of WEST's sample log #8211 presented in Appendix 1, Tables 1 & 2; the pit floor samples, PF-2, PF-3, and PF-4 contained detectable concentrations of PCB's.

Pit floor sample, PF-2, contained 2,600 mg/kg TPH as Diesel and PF-4 contained 10 mg/kg TPH as Motor Oil. Sample PF-1 was free of all analytes above the laboratory reporting limits. No BTEX, Semi-Volatile Organic, or Volatile Halocarbon compounds were detected in the four pit floor samples. The three stockpile samples contained concentrations of hydrocarbons, PCB's, and Semi-Volatile Organics that required off-site disposal at a licensed landfill. Copies of the analytical data are attached in Appendix 3.

VERTICAL OVER EXCAVATION OF THE PIT FLOOR:

After gaining approval from the County of Alameda DOHS; PG&E representatives instructed RAMCON personnel to deepen the excavation floor to a total depth of 12 feet. On 12-29-93, RAMCON personnel excavated the pit floor down to a depth of 12 feet below grade.

The material removed from the excavation was loaded directly onto trucks and re-located to the stockpile area across the street. All over excavation soil was placed on and covered with plastic to the south of the overburden stockpiles., (Appendix 1, Plate 3).

Soil Sample Locations- Under the direction of PG&E and the County of Alameda, who oversaw the over excavation work, a technician from WEST collected a total of 7 soil samples from the following locations:

| | |
|-----------|---|
| PF-5 | Center of Pit Floor on East end at 12 feet below grade. |
| PF-6 | Center of Pit Floor on South side at 12 feet below grade. |
| PF-7 | Center of Pit Floor on West end at 12 feet below grade. |
| PW-n | North Pit Wall below concrete vault at 12 feet below grade. |
| PW-ne | North-East corner Pit Wall at 12 feet below grade. |
| Stk3(A-D) | Tank Over Excavation Stockpile composite sample |
| Stk3(F-G) | Tank Over Excavation Stockpile composite sample |

Please refer to Appendix 1, Plate 3 for a site map showing the sample locations, excavation dimensions, and location of the concrete vault.

Sample Collection- Using a backhoe, soil was removed from the floor of the excavation. The samples were collected from the backhoe bucket by pounding a clean brass sleeve into a freshly exposed surface of native soil. The discrete stockpile soil samples were collected by digging into the soil 18" and pounding a 2" by 3" brass sleeve into a freshly exposed surface. All sleeves were inspected to insure that no head space was present in either end of the sleeve and then sealed with teflon tape, plastic caps, and duct tape. The sleeves were then labeled, placed on ice, and transported under chain-of-custody to WEST for analyses. Note: The discrete stockpile soil samples were composited in the laboratory, 4 sleeves per composite, and then analyzed.

Analyses- At the request of PG&E and the County of Alameda DOHS; the seven samples collected at the site were analyzed for the following:

| | |
|---|------------------------|
| BTEX, TPH as Gasoline & TPH as Diesel & Motor Oil | EPA 8020/8015 modified |
| Total Oil & Grease | |
| Volatile Halocarbons | EPA 8010 |
| Semi-Volatile Organics | EPA 8270 |
| PCB's | EPA 8080 |
| Five TTLC Metals (Cd, Cr, Pb, Zn, Ni). | |

Referring to the analytical summary of WEST's sample log #8252 presented in Appendix 1, Tables 3 & 4; excavation samples, PF-5, PF-7, PW-n, and PW-ne all contained detectable concentrations TPH as Diesel. Pit wall samples, PW-n, and PW-ne, also contained concentrations of PCB's. No BTEX, TPH as Gasoline, TPH as Motor Oil, Semi-Volatile Organics, or Volatile Halocarbons above the laboratory reporting limits were detected in the excavation soil samples. The two stockpile composite soil samples contained concentrations of TPH as Diesel, Oil & Grease, and PCB's that required off-site disposal at a licensed landfill. Copies of the analytical data are attached in Appendix 3.

BACKFILLING THE EXCAVATION:

After gaining approval from the County of Alameda DOHS, PG&E representatives instructed, RAMCON personnel to backfilled the excavation as follows:

- 1) The excavation floor and walls were lined with 4 oz. filter fabric.
- 2) 3/4" drain rock was placed in the excavation from 12 to 8 feet from grade.
- 3) The filter fabric was then pulled off the walls and draped over the top of the drain rock to prevent migration of fines into the rock.
- 4) The remainder of the excavation was brought to sub-grade with 8" lifts of 3/4" Class II aggregate base rock with 95% relative compaction.
- 5) The excavation was capped with 8" of steel reinforced concrete cement that was slip-doweled into the existing concrete.

During the backfill operation RAMCON personnel, at the request of PG&E; cut, drained, threaded, and capped two product lines located in the north east corner of the excavation. Note: The product lines cut and removed were not part of the former 5,000 gallon UST product line and vent system. The excavation was backfilled to 4 feet from grade and a plastic liner was laid under the pipes. The lines were then cut and approximately 4 gallons of oil was drained from the southern pipe into a 5 gallon bucket. After cutting, no oil drained from the northern line. both ends of the two lines were, threaded, capped, and sealed. The excavation was then backfilled to subgrade. The plastic liner, bucket, oil, piping, and protective clothing was collected and placed in a 55 gallon drum by representatives of PG&E. PG&E representatives profiled the materials in the 55 gallon drum for disposal at U.S Ecology in Beatty, Nevada. The drum was shipped out on 02-01-94 with other PCB contaminated waste normally generated at the subject site. A copy of the Uniform Hazardous Waste Manifest for the shipment has been attached in Appendix 2.

STOCKPILED SOIL DISPOSAL:

The overburden stockpiled soil, the vault stockpiled soil, and the over excavation stockpile soil was profiled for and accepted for disposal at Chemical Waste Management Inc. Kettleman Hills landfill, 35251 Old Sky Line Road, Kettleman City, CA. The soil was described as "Environmentally Hazardous Substance Soil N.O.S. Polychlorinated Biphenyls, Hazardous Class 9, I.D. UN3077, Packing Group III".

PG&E Emeryville: Tank Removal & Soil Remediation Summary
February 22, 1994
RAMCON Job #649001
Page 8

On 01-27-94 and 01-28-94, RAMCON personnel loaded a total of 246 tons soil onto 12 trucks provided by Chemical Waste Inc. The soil was transported under manifest to Chemical Waste's Kettleman Hills licensed landfill. The Uniform Hazardous Waste Manifests for the soil haul have been attached, (Appendix 2).

After disposal of the stockpiled soil and completion of the backfilling operations, RAMCON personnel washed down the former location of the stockpiled soil to remove the remaining residual soil. All surface cleaning water was contained; approximately 1,800 gallons of water, with an estimated 3% solids, was pumped into a truck operated by Erickson Inc. Erickson Inc. transported the water to the Gibson Pilot facility located in Redwood City, CA. A Copy of the bill of lading for the water has been attached in Appendix 2.

Note: This report is summary of the work completed by RAMCON for PG&E. No judgements or interpretations concerning the subsite conditions at the subject site have been made or are intended to be made.

If you have any questions or comments, please feel free to call Mr. Jaff Auchterlonie @ 372-7537.

Sincerely,



Mr. Jaff Auchterlonie
RAMCON

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 15, 1994
STID# 355

Mr. Melvin Byrd
PG & E Repair Facility
4525 Hollis Street
Emeryville, California 94608

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

RE: Workplan for Groundwater Investigation at Emeryville Materials Facility - 4525 Hollis Street, Emeryville, California 94608

Dear Mr. Byrd:

This office has completed review of the "Investigation of Subsurface Soils" (January 11, 1994) and the "Workplan for Groundwater Investigation" (January 11, 1994) prepared by PG&E Technical and Ecological Services (TES) for the referenced site.

Based on this review, the basic elements of the workplan is acceptable provided the following items are addressed:

- 1) During borehole advancement, soil samples must be collected at a minimum of every five feet in the unsaturated zone, significant changes in lithology and where field screening identifies the presence of contaminants. The selection of samples chosen for laboratory analysis should be based primarily on field evidence. A minimum of one sample submitted for analysis from each boring must be from the saturated/unsaturated zone interface.
- 2) A minimum of 24 hours, and preferably 72 hours should pass between well development and purging/sampling.
- 3) Wells should be surveyed to an accuracy of 0.01 foot and referenced to a common bench mark such as mean sea level (MSL).
- 4) Please submit copies of the manifest for disposal of any hazardous waste generated during the investigation.
- 5) Soil and groundwater samples must be analyzed for the following target compounds: PCB, TPH diesel, benzene, toluene, ethyl benzene and xylene.
- 6) Submit a site map which illustrates the location of the monitoring well (MW-4) referred in the subsurface investigation report. Please cite this well relative to the proposed four monitoring wells.
- 7) The four monitoring wells to be installed must be identified (i.e. MW-1, MW-2, MW-3, MW-4).

Mr. Melvin Byrd
RE: 4525 Hollis Street, Emeryville, CA 94608
February 15, 1994
Page 2 of 3

- 8) Groundwater monitoring wells must be sampled at a minimum of every quarter and groundwater elevation readings must be incorporated in the monitoring program.
- 9) PCB concentration up to 385 ppm and TEPH up to 16,000 ppm (found in soil borings B-1 and B-10 respectively) remain on site and must be remediated to acceptable levels which are protective to the public health and groundwater.
- 10) Recall that the following contaminant source areas exist on site: B-10 (10,000 ppm TEPH); B-12 (16,000 ppm TEPH); B-7 (7700 ppm TEPH); B-1 (385 ppm PCB); B-16 (185 ppm PCB); B-9 (93 ppm PCB). Only one of the proposed well is located proximal to source area B-10. The threat or impact to groundwater of the remaining source areas should be investigated.
- 11) Please notify this office at least 72 hours in advance for the start up of the work plan implementation so a site visit can be arranged by a representative from this office.

Response to items #4, #6, #9 and #10 should be included in the report to be submitted to this office following completion of this investigation. Report must be submitted within **45 days** after workplan implementation.

Until cleanup is complete, you will need to submit reports to this office every three months (or at a more frequent interval, if specified at any time by this agency). In addition, the following items must be incorporated in your future reports or workplans:

- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or workplan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained

Mr. Melvin Byrd
RE: 4525 Hollis Street, Emeryville, CA 94608
February 15, 1994
Page 3 of 3

- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

Please contact me at (510) 271-4530 if you have any questions concerning this letter.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
~~Edgar B. Howell~~, Chief, Hazardous Materials Division - files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 15, 1994
STID# 355

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. Melvin Byrd
PG & E Repair Facility
4525 Hollis Street
Emeryville, California 94608

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Mr. Melvin Byrd
RE: 4525 Hollis Street, Emeryville, CA 94608
February 15, 1994
Page 2 of 3

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Mr. Melvin Byrd
RE: 4525 Hollis Street, Emeryville, CA 94608
February 15, 1994
Page 3 of 3

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Please contact me at (510) 271-4530 if you have any questions concerning this letter.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Edgar B. Howell, Chief, Hazardous Materials Division - files

HAZARDOUS WASTE
MANIFEST CORRECTION NOTICE

ALCO
HAZMAT

DATE 12-31-93

94 JAN 18 PM 2:57

GENERATOR NAME: PACIFIC GAS & ELECTRIC Co.

LOCATION: EMERYVILLE REPAIR FACILITY
4525 HOLLIS ST. - EMERYVILLE, CA 94608

EPA ID NO: CAD982400418

MANIFEST NO: 92745142

TRANSPORTER NAME: ERICKSON, INC.

ADDRESS: 255 PARR BLVD.
RICHMOND, CA 94801

SHIPPING DATE: 12-22-93

DISPOSAL FACILITY

NAME: ERICKSON, INC.

ADDRESS: 255 PARR BLVD. - RICHMOND, CA 94801

ITEMS TO BE CORRECTED:

SECTION NO. CHANGE TO:

1 CAD982400418

B HYHQ36-008798 (ADD - OMITTED ON ORIGINAL)

COMPLETED BY: JIM ADDIEGO

PHONE NO: 510-649-3314

SEND COPY TO
STATE DHS:

Procedures and Regulations Section
Toxic Substances Control Division
Department of Health Services
714-744 P St.
Sacramento, CA 95814

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) CONTAMINATION SITE REPORT

| | | | | | | |
|--|---|--|---|--|--|--|
| EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. | | |
| REPORT DATE M W T T F S S 1 3 9 3 | | CASE # <i>not needed</i> D. Zachetti 1/3 @ 3 PM | | SIGNED <i>[Signature]</i> DATE 1/3/93 | | |
| REPORTED BY | NAME OF INDIVIDUAL FILING REPORT Mel Byrd | | PHONE (510) 649-3340 | | SIGNATURE <i>[Signature]</i> | |
| | REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER | | COMPANY OR AGENCY NAME PG & E | | | |
| RESPONSIBLE PARTY | ADDRESS 4525 | | STREET Hollis ST | | CITY Emeryville | |
| | NAME John Holt | | CONTACT PERSON John Holt | | STATE CA | |
| SITE LOCATION | ADDRESS 4525 | | STREET Hollis ST | | CITY Emeryville | |
| | FACILITY NAME (IF APPLICABLE) Emeryville Repair Facility | | OPERATOR () | | STATE CA | |
| IMPLEMENTING AGENCIES | LOCAL AGENCY DHS Alameda County Health Dept | | CONTACT PERSON Susan Hugo | | PHONE (510) 271-4320 | |
| | REGIONAL BOARD represented by above | | AGENCY NAME Alameda County Health Dept | | PHONE () | |
| SUBSTANCES INVOLVED | (1) TPH as diesel | | QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN | | NAME () | |
| | (2) oil and grease | | QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN | | NAME () | |
| DISCOVERY/ABATEMENT | DATE DISCOVERED 1 2 2 9 3 | | HOW DISCOVERED <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL | | SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> | |
| | DATE DISCHARGE BEGAN UNKNOWN | | INVENTORY CONTROL <input type="checkbox"/> OTHER <input type="checkbox"/> | | METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING | |
| SOURCE/ CAUSE | SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK | | CAUSE(S) <input checked="" type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION | | RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER | |
| | HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | IF YES, DATE () | | | |
| CASE TYPE | CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY | | <input type="checkbox"/> GROUNDWATER | | <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) | |
| | CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> REMEDIATION PLAN | | <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY | | <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS | |
| REMEDIAL ACTION | CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> VACUUM EXTRACT (VE) | | <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> OTHER (OT) | | <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) | |
| | <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VENT SOIL (VS) | | COMMENTS | | | |

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

| | | | | | |
|--|--|--|--|--|--------------------------------|
| EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. | |
| REPORT DATE M / D / Y | | CASE # <i>not needed per D. Zaccatti 1/3 @ 3 PM</i> | | SIGNED <i>[Signature]</i> DATE <i>1/3/83</i> | |
| REPORTED BY | NAME OF INDIVIDUAL FILING REPORT <i>MEI Byrd</i> | | PHONE <i>(510) 649-3340</i> | SIGNATURE <i>[Signature]</i> | |
| | REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER | | COMPANY OR AGENCY NAME <i>PG & E</i> | | |
| ADDRESS <i>4525</i> STREET <i>Hollis ST</i> CITY <i>Emeryville</i> STATE <i>CA</i> ZIP <i>94608</i> | | | | | |
| RESPONSIBLE PARTY | NAME <i>John Holt</i> <input type="checkbox"/> UNKNOWN | | CONTACT PERSON () | | PHONE <i>510 649-3333</i> |
| | ADDRESS <i>as above</i> | | | | |
| SITE LOCATION | FACILITY NAME (IF APPLICABLE) <i>Emeryville Repair Facility</i> | | OPERATOR () | | PHONE () |
| | ADDRESS <i>4525</i> STREET <i>Hollis ST</i> CITY <i>Emeryville</i> COUNTY <i>Alameda</i> ZIP | | | | |
| | CROSS STREET <i>45 ST</i> | | | | |
| IMPLEMENTING AGENCIES | LOCAL AGENCY <i>DHS Alameda County Health Dept</i> | | CONTACT PERSON <i>Susan Hugo</i> | | PHONE <i>(510) 271-4320</i> |
| | REGIONAL BOARD <i>represented by above</i> | | | | |
| SUBSTANCES INVOLVED | (1) <i>TPH as diesel</i> NAME | | QUANTITY LOST (GALLONS) UNKNOWN | | |
| | (2) <i>oil and grease</i> NAME | | QUANTITY LOST (GALLONS) UNKNOWN | | |
| DISCOVERY/ABATEMENT | DATE DISCOVERED <i>1 M 22 D 9 Y 3</i> | | HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER | | |
| | DATE DISCHARGE BEGAN UNKNOWN | | METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER | | |
| | HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE | | | | |
| SOURCE/CAUSE | SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input checked="" type="checkbox"/> OTHER | | CAUSE(S) <input checked="" type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER | | |
| | CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) | | | | |
| CURRENT STATUS | CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> CLEANUP UNDERWAY | | | | |
| | CHECK APPROPRIATE ACTION(S) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) | | | | |
| COMMENTS | 94 JAN 5 PM 3:26 | | | | |
| | ALCO HAZMAT | | | | |

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name PG&E Today's Date 12/22/93

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 4525 Hollis Street

City Emeryville Zip 94608 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- ___ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OnSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General
- ___ 1. Permit Application 25284 (H&S)
 - ___ 2. Pipeline Leak Detection 25292 (H&S)
 - ___ 3. Records Maintenance 2712
 - ___ 4. Release Report 2651
 - ___ 5. Closure Plans 2670

- Monitoring for Existing Tanks
- ___ 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Groundwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____

- ___ 7. Precs Tank Test 2643
Date: _____
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing 2646
- ___ 10. Ground Water. 2647

- New Tanks
- ___ 11. Monitor Plan 2632
 - ___ 12. Access. Secure 2634
 - ___ 13. Plans Submit 2711
Date: _____
 - ___ 14. As Built 2635
Date: _____

Comments:

2 UGTs removal:
 Erickson = tank, Laufer; Manifest #
 George Warren = fire Dept on site (92745142)
 #1 Tank - sitting in the east end of the
 (500G) 0.9% = O2. Tank appeared tank
 to be corroded.
 #2 Tank = 2% = O2. Tank appeared corroded
 (500G) steel tank
 Both tanks had about 1 ft of water ->
 both tanks ^{stood 1200} were pumped out.
 4 Soil samples collected - one from
 each end of the tank.
 Stockpiled soil must be characterized &
 covered with nitrogen.
 Only clean fill can be used to backfill
 the pit.

II, III

Contact: _____
 Title: _____ Inspector: _____
 Signature: Michelle Ponce Signature: Jason F. Hugo

white -env. health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name PGGE Today's Date 12/22/93

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- ___ 19. Trade Secret Requested? 25538

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

UGTs removal:
Cruckson = tank handler Manifest #
George Warren = H&E Dept on site 92745142
#1 Tank = problem on the east end of the
(5000 G) 10.9% O2 Tank appeared empty
was removed
#2 Tank = 10.0% O2 Tank appeared empty
(5000 G) tank
Both tanks had about 1 ft of water
both tanks were pumped out.
I sent a file collected - one from
each end of the tank.
stockpiled soil must be removed
around the tanks.
Finally when fill was used to compact
the soil.

III. UNDERGROUND TANKS (Title 23)

- | | |
|------------------------------|--|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring of Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose |
| | Semi-annual groundwater |
| | One time soils |
| | 3) Daily Vadose |
| | One time soils |
| | Annual tank test |
| | 4) Monthly Groundwater |
| | One time soils |
| 5) Daily Inventory | |
| Annual tank testing | |
| Cont pipe leak det | |
| Vadose/gndwater mon. | |
| 6) Daily Inventory | |
| Annual tank testing | |
| Cont pipe leak det | |
| 7) Weekly Tank Gauge | |
| Annual tank testing | |
| 8) Annual Tank Testing | |
| Daily Inventory | |
| 9) Other _____ | |
| New Tanks | ___ 7. Precls Tank Test 2643 |
| | Date: _____ |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing 2646 |
| | ___ 10. Ground Water. 2647 |
| | ___ 11. Monitor Plan 2632 |
| | ___ 12. Access. Secure 2634 |
| | ___ 13. Plans Submit 2711 |
| | Date: _____ |
| | ___ 14. As Built 2635 |
| | Date: _____ |

Rev 6/88

Contact: _____
 Title: _____ Inspector: _____
 Signature: _____ (Signature: Jason Hugo)

II, III



Chris Goodrich

Environmental Technician

*Western Environmental
Science & Technology*

45133 County Road 32B

Davis, CA 95616-9426

916 753-9500 Office

916 757-0241 Digital Pager

Pacific Gas and Electric Company



Michelle E. Boscoe, RHSP, REA

Senior Environmental Coordinator

Materials and Fleet

Central Repair and Recovery Services

4525 Hollis Street

Emeryville, CA 94608-2999

510/649-3310 Int. 447-3310

Fax 510/649-3330 Int. 447-3330

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320**

AUG -9 PM 2:47

SUSAN L. HUGO

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
80 Swan Way, Suite 200,
Oakland, CA 94621
Telephone: (510) 271-4320

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is hereby approved for issuance of any required building permits for construction/destruction. One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal. Any changes or alterations of these plans must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections:

- _____ Removal of Tank(s) and Piping
- _____ Sampling
- _____ Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependant on compliance with accepted plans and all applicable laws and regulations.

***THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS**

Contact Specialist:

① Site Safety Plan must adhere to 29 CFR 1910-120

② See any modifications/connections made in Red ink
Susan L. Hugo

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name PG&E, Facilities Dept.
Business Owner PG&E, Facilities Dept.
 2. Site Address 4525 Hollis St.
City Emeryville Zip 94608 Phone 510-649-3331
 3. Mailing Address 4525 Hollis St.
City Emeryville Zip 94608 Phone 510-649-3331
 4. Land Owner Pacific Gas & Electric Company
Address 4525 Hollis St. City, State Emeryville, CA Zip 94608
 5. Generator name under which tank will be manifested PG&E, Facilities Dept.
- EPA I.D. No. under which tank will be manifested CAD 982400418

6. Contractor Ramco Engineering & Environmental Consulting, Inc.
Address 3751 Commerce Drive
City West Sacramento, CA 95691 Phone 916/372-7535
License Type* "A" HAZ ID# 510034

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant _____
Address _____
City _____ Phone _____

8. Contact Person for Investigation
Name Michele Boscoe Title senior Environmental Coordinator
Phone 510/649-3310

9. Number of tanks being closed under this plan 2
Length of piping being removed under this plan 10 Feet
Total number of tanks at facility 2

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground tanks are hazardous waste and must be handled **
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name Refineries Services EPA I.D. No. CAD083166728
Hauler License No. 2591 License Exp. Date 03-31-94
Address 25651 Walnut Avenue
City Signal Hill State CA Zip 90806

b) Product/Residual Sludge/Rinsate Disposal Site

Name Refineries Services EPA I.D. No. CAD083166728
Address 13331 North Highway 33
City Patterson State CA Zip 95363

c) Tank and Pipe Transporter

Name Erickson, Inc. EPA I.D. No. CAD009466392
Hauler License No. 019 License Exp. Date _____
Address 255 Parr Blvd.
City Richmond State ca Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466392
Address 255 Parr Blvd.
City Richmond State ca Zip 94801

11. Experienced Sample Collector

Name William J. Goodwin and/or Jaffrey Auchterlonie / Geologist
Company Ramcon Engineering & Environmental Contracting, Inc
Address 3751 Commerce Dr PO Box 1026
City West Sacramento State ca Zip 95691 Phone 916/372-7535
FAX 916/372-4209

12. Laboratory

Name Western Environmental Sparger Technology
Address 45135 County Rd. 32B 3100 Rite Circle, Suite 108
City Sacramento State CA Zip _____
State Certification No. 1346

13. Have tanks or pipes leaked in the past? Yes [] No [x]

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

50 lbs. of dry ice per 1000 gallons of tank capacity

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (415-771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

| Tank | | Material to be sampled (tank contents, soil, ground water, etc.) | Location and Depth of Samples |
|-----------------|--|---|--|
| Capacity | Use History (see instructions) | | |
| 5,000 Gallon | Non PCB Transformer Oil | Soil samples of undisturbed natural material beneath the excavation. And ground water if encountered. | One soil sample beneath the tank at a maximum of 2 feet below the native soil/backfill interface. One soil sample beneath the piping at a maximum of 2 feet below the native soil/backfill interface where it connects to the pump/day tank. One soil sample for every 20 linear feet of product piping. Soil samples will be taken beneath any suspected leak site or stained soil. |
| 5,000 Gallon | Non PCB Transformer Oil Date of installation on both tanks are 12/18/23, last day of use is unknown. | | |

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

| Excavated/Stockpiled Soil | |
|---|--|
| Stockpiled Soil Volume (Estimated) <u>125</u> Yards | Sampling Plan Composite stockpile plan. One (1) sample per 50 cubic yards. |

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples.

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

| Containment Sought | EPA, DHS, or Other Sample Preparation Method Number | EPA, DHS, or Other Analysis Method Number | Method Detection Limit |
|--------------------|---|---|------------------------|
| TPH-G | 5030 | | 1.0 |
| TPH-D | 3550 | | 1.0 |
| BTX&E | 8020 | | 0.005 |
| O&G | 5520 | | 50.0 |
| TPH & BTX&E | 8260 | | |
| GL AC | 8010 | | |
| Metals | AA | | |
| Semivolatile cpds | 8270 | | |
| PCB'S | 8080 | | 10 |

17. Submit Site Health and Safety Plan (See Instructions)
See attached

18. Submit Worker's Compensation Certificate copy

Name of Insurer Republic Indemnity Co. of America

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (See Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

X
Signature of Contractor

Name (please type) Eric V. Montesano

Signature _____

Date _____

Signature of Site Owner or Operator

Name (please type) Michelle E. Boscoe- Senior Env. Coordinator

Signature *Michelle Boscoe*

Date 8/4/93

18. Submit Worker's Compensation Certificate copy

Name of Insurer Republic Indemnity Company of America

19. Submit Plot Plan (See Instructions)

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Signature of Contractor Ramcon Engineering & Environmental Contracting, Inc.

Name (please type) Michael S. Ramos

Signature 

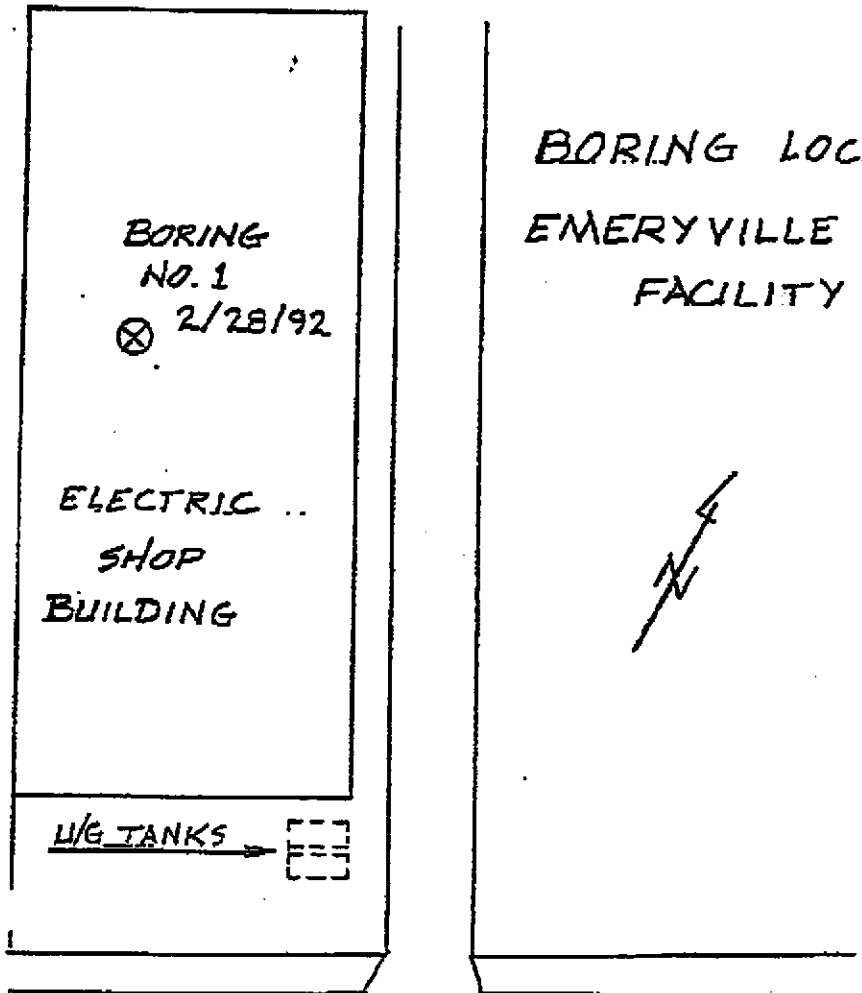
Date 11-29-93

Signature of Site Owner or Operator

Name (please type) _____

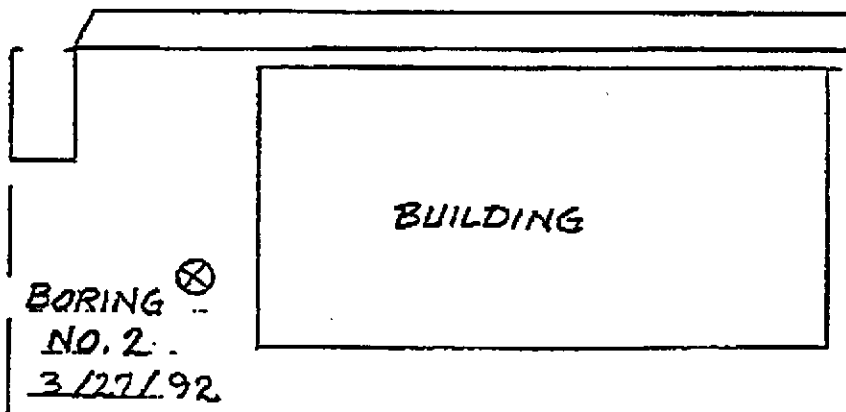
Signature _____

Date _____



4 5 T H S T R E E T

HOLLIS STREET



PACIFIC GAS AND ELECTRIC
EMERYVILLE REPAIR FACILITY
4525 HOLLIS STREET
EMERYVILLE, CA

UNDERGROUND NON -PCB TRANSFORMER OIL TANKS REMOVAL
SPECIFICATION NUMBER: EMV 2-93

RAMCON
SITE HEALTH AND SAFETY PLAN

Contractor: RAMCON - 3751 COMMERCE DR. WEST SAC, CA 95691
Site Name: PG&E Emeryville Repair Facility
Site Address: 4525 Hollis Street
Emeryville, CA

Job No:

alternate - site Mgr is Bob White (MB)

ON SITE ORGANIZATION AND COORDINATION - Police or Fire Call 911

Site Manager: John Pile **Pager:** 499-6260 **Phone:** 372-7535

Responsibilities: Oversee tank removal operations, air monitoring, determining when site level will be changed and arrange for all necessary inspections.

HAZARD EVALUATION

1. Be aware of area where work is performed. Stay clear of excavation equipment during operations to avoid physical injury.
2. Set up a perimeter around work area with "No Smoking" signs posted to avoid fire hazards and unwanted personnel.
3. Have respirators, Tyveks suits and gloves readily available for personal protection when needed.
4. Have (2) 20Lb A:120 B-C dry chemical fire extinguisher available at all times.
5. Monitor air around excavation for any hazardous vapors.
6. All employees are to wear hard hats to avoid injuries to head area.
7. No eating, drinking or smoking at work site.
8. In the event air monitoring reached 10% of the lower explosive limit, the site will be evacuated and the fire inspector notified.
9. In the event L.E.L reading goes above 10% inside tank, dry ice will be introduced into tank to render tank non-explosive.
10. All Cal OSHA regulations will be enforced.

DAILY BRIEFINGS

1. Inform each employee of what work needs to be accomplished during the work day.
2. Review any problems that may have occurred the prior day.
3. Inform employees on the status of air quality. Review respirator donning procedure if applicable.
4. Inform employees on visitors to site that day.
5. Review weather conditions and what signs to watch out for. If weather is going to be abnormal, take necessary breaks.
6. Reiterate the fact, that safety comes first.
7. Have open discussion with employees to answer any questions or problems.

AIR AND PERSONAL MONITORING DEVICES

We will be using the Gastechtor 1314 and the LEL 02 Meter to monitor the concentrations of hydrocarbons & explosive mixture in the air and in the dirt. The Gastechtor is calibrated weekly with Hexane.

PERSONNEL PROTECTIVE EQUIPMENT

Employees will work at Level D until air monitoring indicates a need for a change. Level D protection will consist of hard hats, steel toed boots, ear and eye protection and normal work clothes (Blue jeans and company shirts). When air monitoring indicates TPH levels above 50 PPM or Benzene levels above 1 PPM respirators will be donned along with Tyvek suits and gloves. Filter cartridge will be changed when break through is achieved. At Level C air monitoring will be changed from every 15 minutes to every 5 minutes. When employees reach immediate break through on filter cartridge then the site will be evacuated.

SECURING THE SITE

Securing the site will consist of barricading the excavation with barricades and barricade tape. All stockpiled soil will be covered with visqueen. The visqueen will be secured with tires and rope to hold it in place.

EMERGENCY CONTACTS AND PHONE NUMBERS: POLICE OR FIRE CALL 911

OK
Site Manager: Bob White - 916/372-7535 Office, 440-3834 Pager
916/765-3293 Mobile

Alternate S.M.
Project Manager: John Pile - 916/372-7535 Office, 499-6260 Pager
916/761-1746 Mobile

Client Contact: Mel Byrd - 510-649-3310

Environmental Agency: Alameda County
80 Swan Way
Oakland, CA 94621 PH. (510) 271-4320

Hospital: Childrens Hospital
5100 Martin Luther King Way
510/428-3000

Site Phone Number: 510/649-3310

Ramcon's occupational Doctor: Dr. David E. Root
1 Scripps Drive
Sacramento, Ca 95825
(916) 924-9263

Dr. Root should be notified in the event of any occupational injury or exposure.

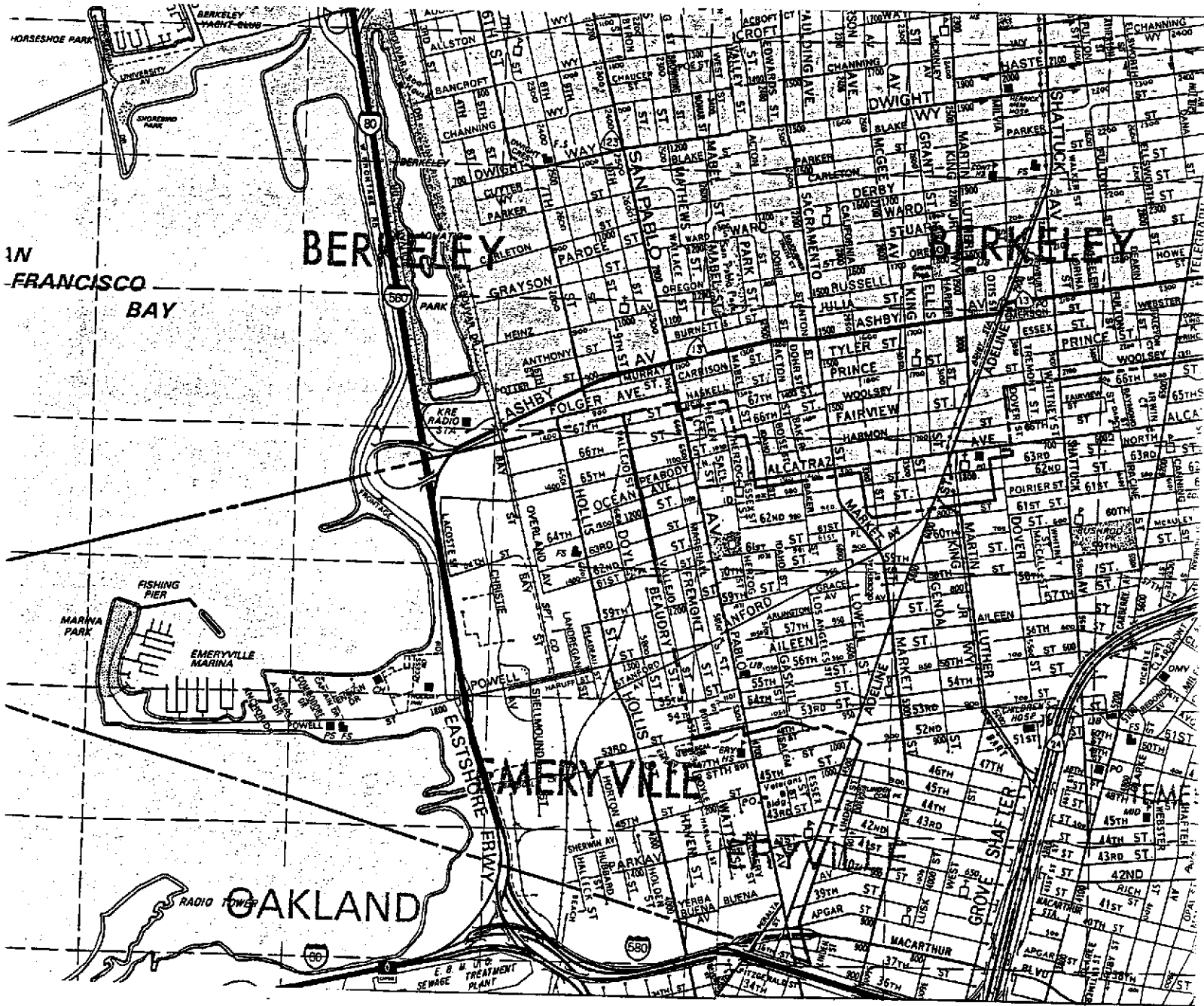
Workman's Compensation Carrier: Wright & Kimbrough
Policy Number: PC942941
Expires: 10/92

Poison: 415/476-2845 EPA: 800/424-8802 Envirologic: 207/773-3020

OSHA TRAINING

The certificates for the OSHA Hazardous Waste Training (29 CFR 1910.120) are to be shown to the engineer.

Hospital Directions: WEST ON PARK AVE. TO SAN PABLO AVE.
SAN PABLO AVE. SOUTH TO 41st. (1 BLOCK)
41st. WEST TO WEST STREET (5 BLOCKS)
NORTH ON WEST TO 52nd. (8 BLOCKS)
WEST ON 52nd. HOSPITAL ON RIGHT.



SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination, and will be delivered to the laboratory at proper storage temperatures. The following sample packaging requirements will be followed.

- * Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers and have custody seals affixed to them.
- * Samples will be stored in coolers to maintain custody, control temperature, and prevent breakage during transportation to the laboratory.
- * A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory.
- * Ice, blue ice, or dry ice will be used to keep the samples at a constant temperature during transport to the laboratory.
- * Each sample will be identified by affixing a pressure sensitive, gummed label, or standardized tag on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection, and the collector's initials.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

SAMPLE CONTROL/CHAIN-OF-CUSTODY: All field personnel will refer to this work plan to verify the methods to be employed during sample collection. All sample gathering activities will be recorded in the site log book; all sample transfers will be documented in the site log book; samples are to be identified with labels and all sample bottles are to be custody-sealed. All information is to be recorded in waterproof ink. All RAMCON field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician who has been designated by the RAMCON project manager as being responsible for sample shipment to the appropriate laboratory. The custody record will include, among other things, the following information: S\site identification, name of person collecting the samples, date and time samples were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used, and signature of the RAMCON person relinquishing samples to a non-RAMCON person with the date and time of transfer noted. The relinquishing individual will also put all the specific shipping data on the custody record.

Site log books will be maintained by a designated RAMCON field employee to record, for each sample, site identification, sample locations, station numbers, dates, times sampler's name, designation of samples as grab or composite, notation of the type of sample as a grab or composite, notation of the type of sample (e.g. groundwater, soil boring, etc.), preservatives used, on-site measurement data, and other observations or remarks.

SOIL AND GROUNDWATER SAMPLING

Soil and groundwater sampling will be conducted in accordance with the California Leaking Underground Fuel Tank Manual (LUFT) and the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites".

Native soil is excavated, using a backhoe or excavator, from below the former tank and brought to the

surface in the bucket. The soil samples are obtained from the bucket after a fresh surface is exposed. The samples are collected in a 2-inch by 6-inch brass tube driven by a hand held hammer. Care is taken to insure the brass sleeve is completely filled and no head space remains. After collection of the soil samples, the brass tube ends are quickly covered with teflon lining and capped with plastic end caps. Groundwater samples will be collected in clean, preserved 40 ml glass vials and a 1 liter amber jar and sealed with teflon lined end caps. All the samples will be labeled and placed in an iced cooler, as discussed above, and transported under a proper chain-of-custody to a California Department of Health Services certified analytical laboratory. The samples will be analyzed for the necessary constituents, or as required by the regulating agency, as confirmation there has not been an unauthorized release of tank contents into the environment.

09/16/93

CERTIFICATE OF INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

PRODUCER
BCA Insurance, Inc.
 8686 North Central, Suite 200
 Phoenix, AZ
 85020
 PHONE 602-944-5999

COMPANIES AFFORDING COVERAGE

INSURED
PETROLEUM RECYCLING CORP.
PRC PATTERSON/REFINERIES SERV
 2651 WALNUT AVENUE
 SIGNAL HILL, CA
 90806

- COMPANY LETTER A PLANET INSURANCE COMPANY
- COMPANY LETTER B
- COMPANY LETTER C
- COMPANY LETTER D
- COMPANY LETTER E

COVERAGES (-----)
 THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFF DATE | POLICY EXP DATE | ALL LIMITS IN THOUSANDS | |
|--------|--|-----------------------------|-----------------|-----------------|----------------------------------|---|
| | | | | | EACH OCC | AGGREGATE |
| A | GENERAL LIABILITY | NGB2510010 | 09/20/93 | 09/20/94 | GENERAL AGGREGATE | 1000 |
| | <input checked="" type="checkbox"/> COMMERCIAL GEN LIABILITY | | | | PRODS-COMP/OPS AGG. | 1000 |
| | <input checked="" type="checkbox"/> (X) CLAIMS MADE [] OCC. | | | | PERS. & ADVS. INJURY | 1000 |
| | <input checked="" type="checkbox"/> OWNER'S & CONTRACTORS PROTECTIVE | | | | EACH OCCURRENCE | 1000 |
| | <input checked="" type="checkbox"/> \$5000. DEDUCTIBLE | | | | FIRE DAMAGE (ANY ONE FIRE) | 50 |
| | [] | | | | MEDICAL EXPENSE (ANY ONE PERSON) | 5 |
| A | AUTOMOBILE LIAB | NKA2509317 | 09/20/93 | 09/20/94 | CGL | 1200 |
| | <input checked="" type="checkbox"/> ANY AUTO | | | | BOOILY INJURY (PER PERSON) | |
| | <input checked="" type="checkbox"/> ALL OWNED AUTOS | | | | BOOILY INJURY (PER ACCIDENT) | |
| | <input checked="" type="checkbox"/> SCHEDULED AUTOS | | | | PROPERTY | |
| | <input checked="" type="checkbox"/> HIRED AUTOS | | | | | |
| | <input checked="" type="checkbox"/> NON-OWNED AUTOS | | | | | |
| | <input checked="" type="checkbox"/> GARAGE LIABILITY | | | | | |
| | EXCESS LIABILITY | | | | | |
| | [] UMBRELLA FORM | | | | | |
| | [] OTHER THAN UMBRELLA FORM | | | | | |
| | WORKERS' COMP AND EMPLOYERS' LIAB | | | | STATUTORY | EACH ACC DISEASE-POLICY LIMIT DISEASE-EACH EMPLOYEE |
| A | OTHER POLLUTION LEGAL LIABILITY | NTA2509809 "CLAIMS MADE" | 09/20/93 | 09/20/94 | 1000 5000 | EACH LOSS TOTAL LOSSES |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER (-----)
 PRC PATTERSON
 P O BOX 1167
 PATTERSON, CA
 95363

CANCELLATION (-----)
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Donald A. Boon

INSURE CERTIFICATE OF INSURANCE

PETR 4001 86

05/17/93

PRODUCER
 JOHANSSON INSURANCE SERVICES INC
 PETROLEUM INSURANCE BROKERS
 P.O. BOX 3688
 TUSTIN, CA 92681
 (714) 541-9697 (714) 541-9705

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

| | | |
|----------------|---|---------------------------|
| COMPANY LETTER | A | GOLDEN EAGLE INSURANCE CO |
| COMPANY LETTER | B | |
| COMPANY LETTER | C | |
| COMPANY LETTER | D | |
| COMPANY LETTER | E | |

INSURED
 PETROLEUM RECYCLING CORP.
 PRC PATTERSON/REFINERIES SERVICE
 2651 WALNUT AVENUE
 SIGNAL HILL CA 90806

COVERAGES
 THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO. LTR. | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|----------|---|---------------|----------------------------------|-----------------------------------|--|
| | GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROF. | | | | GENERAL AGGREGATE \$ PRODUCTS-COMP/OP AGG. \$ PERSONAL & ADV. INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXPENSE (Any one patient) \$ |
| | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY | | | | COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$ |
| | EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM | | | | EACH OCCURRENCE \$ AGGREGATE \$ |
| A | WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY | PWC 227475 00 | 05/13/93 | 05/13/94 | STATUTORY LIMITS EACH ACCIDENT \$1,000,000 DISEASE-POLICY LIMIT \$1,000,000 DISEASE-EACH EMPLOYEE \$1,000,000 |
| | OTHER * 10 DAY NON PAY | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

ALL OPERATIONS OF THE NAMED INSURED SUBJECT TO THE TERMS AND CONDITIONS OF THE POLICIES.

CERTIFICATE HOLDER

PRC PATTERSON
 P.O. BOX 1167
 PATTERSON, CA 95363
 PRC
 FORM 25-88S (07/90)

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES

AUTHORIZED REPRESENTATIVE

Donald R. Johanson

FROM ACRAT

11.30.1993 17:11

P. 3



United Coastal Insurance Company

115 Main Street - P.O. Box 1288
New Britain, Connecticut 06020-1288
(203) 753-3800

ADDITIONAL INSURED

| | |
|----------------|----------|
| POLICY NO. | C80125 |
| EFFECTIVE DATE | 11/30/93 |

NAMED INSURED
RAMSON

PARTICIPER
BC Environmental Insurance Services

NAME OF PERSON OR ORGANIZATION
(Additional Insured)
Pacific Gas and Electric Company
(Owner)

LOCATION OF COVERED OPERATIONS
UST Removal and Installation
Open Contract
California Locations

It is agreed that:

- The "Persons Insured" provision is amended to include as an insured the person or organization named above (hereinafter called "additional insured"), but only with respect to liability arising out of operations performed for the additional insured by the named insured at the location designated above.
- Additional Exclusions: This insurance does not apply:
 - to bodily injury or property damage occurring after
 - all work on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured at the site of the covered operations has been completed or
 - that portion of the named insured's work out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as part of the same project.
 - to bodily injury or property damage arising out of any act or omission of the additional insured or any of his employees other than general supervision or work performed for the additional insured by the named insured.
 - if the additional insured is an architect, engineer or surveyor, to bodily injury or property damage arising out of the rendering of or the failure to render professional services by such insured or indemnitee, including the preparation or approval of maps, plans, opinions, reports, surveys, designs or specifications and supervisory, inspection or engineering services.
- Additional Definition: When used in reference to this insurance, "work" includes materials, parts, and equipment furnished in connection therewith.

** For work performed by the named insured during this policy period subject to the terms and conditions of the policy.



AUTHORIZED REPRESENTATIVE

Nov. 30, 1993 jg

8102 (Rev)

CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
11/23/93

PRODUCER
Whitaker Davis Insurance Svcs.
dba WRIGHT & KIMBROUGH
P.O. Box 13966
Sacramento, California 95833

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A**
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D** REPUBLIC IND. CO. OF AMERICA
- COMPANY LETTER **E**

INSURED
RAMCON ENGINEERING &
ENVIRONMENTAL CONTRACTING, INC
P. O. BOX 10126
West Sacramento CA 95691

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THIS INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO LTY | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFF. DATE (MM/DD/YY) | POLICY EXP. DATE (MM/DD/YY) | LIMITS |
|-----------|---|---------------|--------------------------------|--------------------------------|--|
| | GENERAL LIABILITY <input type="checkbox"/> COMM. GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCC. <input type="checkbox"/> OWNERS & CONTRACTOR'S PROF | | | | GENERAL AGGREGATE TRIP-COMM/OP AGG. PERS. & ADV. HURRY EACH OCCURRENCE FIRE DAMAGE (See Flt) MED. EXP. (See Flt) |
| | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY | | | | COMBINED SINGLE LIMIT BODILY INJURY (Per person) BODILY INJURY (Per household) PROPERTY DAMAGE |
| | EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM | | | | EACH OCCURRENCE AGGREGATE |
| D | WORKERS' COMPENSATION AND EMPLOYERS LIABILITY | PC942941-94 | 10/01/93 | 10/01/94 | <input checked="" type="checkbox"/> STATUTORY LIMITS EACH ACCIDENT 1000000 DISEASE-POLICY LIMIT 1000000 DISEASE-EACH EMP. 1000000 |
| | OTHER | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VESICLES/SPECIAL ITEMS
*10 DAY NOTICE OF CANCELLATION FOR NON-PAYMENT OF PREMIUM

CERTIFICATE HOLDER

PACIFIC GAS & ELECTRIC COMPANY
ATTN: MGR. OF INSURANCE
77 BEALE ST., RM. E-280
SAN FRANCISCO, CA 94106

CERTIFICATEE

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL SEND BY REGISTERED MAIL *30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. SUCH CANCELLATION WILL BE EFFECTIVE FROM THE DATE OF SUCH CANCELLATION. UNDERSTAND AND AGREE TO ACCEPT THE TERMS AND CONDITIONS OF SUCH POLICIES.

AUTHORIZED REPRESENTATIVE

Don Diebels

ACORD CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
11/23/93

PRODUCER

M.L. GATES INSURANCE COMPANY
3883 ELDER CREEK RD. STE. 100
SACRAMENTO, CA. 95828

(916) 381-8057
BILL D KOURIS

INSURED

RAMCON ENGINEERING AND ENVIRONMENTAL CONTRACTING
P O BOX 1026
WEST SACRAMENTO, CA 95691

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHT UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A** M L GATES INSURANCE COMPANY, INC.
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO. TR. | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|---------|--|---------------|----------------------------------|-----------------------------------|---|
| A | GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR OWNERS & CONTRACTORS PROT. <input checked="" type="checkbox"/> XCU & BFPD | 102635D | 05/24/93 | 05/24/94 | GENERAL AGGREGATE \$ 2,000,000 PRODUCTS-COMP/OP AGG. \$ 2,000,000 PERSONAL & ADV. INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one fire) \$ 50,000 MED. EXPENSE (Any one person) \$ 5,000 |
| A | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS DAMAGE LIABILITY | 102635D | 05/24/93 | 05/24/94 | COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per Person) \$ BODILY INJURY (Per Accident) \$ PROPERTY DAMAGE \$ |
| A | EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input checked="" type="checkbox"/> OTHER THAN UMBRELLA FORM | 900342C | 05/24/93 | 05/24/94 | EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ |
| | WORKERS COMPENSATION AND EMPLOYER'S LIABILITY | | | | STATUTORY LIMITS EACH ACCIDENT \$ DISEASE-POLICY LIMIT \$ DISEASE-EACH EMPLOYER \$ |
| A | OTHER INSTALLATION FLOATER | 102635D | 05/24/93 | 05/24/94 | \$120,000 ANY ONE INSTALLATION \$120,000 ANY ONE LOSS,DISASTER \$10,000 PROPERTY IN TRANSIT \$120,000 ANY ONE LOSS,DISASTER INVOLVING COMBINATION |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
RE: ALL CALIFORNIA OPERATIONS

CERTIFICATE HOLDER

Attention: MANAGER OF INSURANCE
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, ROOM E-280
SAN FRANCISCO, CA 94105

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

POLICY NUMBER: 102635D RAMCON ENGINEERING COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED—OWNERS, LESSEES or CONTRACTORS (Form A)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART.

SCHEDULE

Name of Person or Organization (Additional Insured):

PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, ROOM E-280
SAN FRANCISCO, CA 941066

Location of Covered Operations
SPECIFIED CONTRACT

| Bodily Injury and Property Damage Liability | Premium Basis Cost | Rates (Per \$1000 of cost) | Advance Premium \$ |
|--|-----------------------|----------------------------------|-----------------------|
| | | | |
| Total Advance Premium | | | \$ |

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

1. WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization (called "additional insured") shown in the Schedule but only with respect to liability arising out of:
 - A. "Your work" for the additional insured(s) at the location designated above, or
 - B. Acts or omissions of the additional insured(s) in connection with their general supervision of "your work" at the location shown in the Schedule.
2. With respect to the insurance afforded these additional insureds, the following additional provisions apply:
 - A. None of the exclusions under Coverage A, except exclusions (a), (d), (e), (f), (h2), (i), and (m), apply to this insurance.
 - B. Additional Exclusions. This insurance does not apply to:
 - (1) "Bodily injury" or "property damage" for which the additional insured(s) are obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the additional insured(s) would have in the absence of the contract or agreement.
 - (2) "Bodily injury" or "property damage" occurring after:
 - (a) All work on the project (other than service, maintenance, or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or
 - (b) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.
 - (3) "Bodily injury" or "property damage" arising out of any act or omission of the additional insured(s) or any of their employees, other than the general supervision of work performed for the additional insured(s) by you.
 - (4) "Property damage" to:
 - (a) Property owned, used or occupied by or rented to the additional insured(s);
 - (b) Property in the care, custody, or control of the additional insured(s) or over which the additional insured(s) are for any purpose exercising physical control; or
 - (c) "Your work" for the additional insured(s).

INSURED: RAMCON ENGINEERING AND ENVIRONMENTAL 102635D

DATE ISSUED: 11/23/93

THIS ENDORSEMENT CHANGES THE POLICY, PLEASE READ IT CAREFULLY

ADDITIONAL INSURED PRIMARY COVERAGE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

It is agreed that any person or organization described below is an additional insured, but only with respect to liability arising out of operations performed for the additional insured by or on behalf of the named insured. The insurance afforded to such additional insured is primary and shall not contribute in any way with any other insurance which such additional insured may have.

All other endorsements, provisions, conditions, and exclusions of this insurance shall remain unchanged and apply to the additional insured described below:

Additional Insured: PACIFIC GAS AND ELECTRIC COMPANY

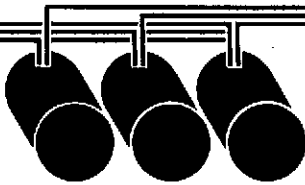
Type of Operation: ALL CALIFORNIA OPERATIONS

Project Location: ALL CALIFORNIA OPERATIONS

MLO23 (3-92)

PARADISO CONSTRUCTION CO.

GENERAL & PETROLEUM CONTRACTORS



LICENSE NO. 259820
P.O. BOX 1836
2600 WILLIAMS ST.
SAN LEANDRO, CA 94577
(510) 614-8390

S I T E H E A L T H
&
S A F E T Y P L A N

P.G. & E.
4525 HOLLIS STREET
EMERYVILLE, CA

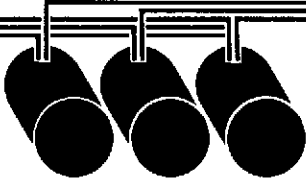
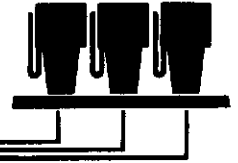
EPA #: CAD 982400418

PARADISO PROJECT #826

AUGUST, 1993

PARADISO CONSTRUCTION CO.

GENERAL & PETROLEUM CONTRACTORS



LICENSE NO. 259820
P.O. BOX 1836
2600 WILLIAMS ST.
SAN LEANDRO, CA 94577
(510) 614-8390

EMERGENCY INFORMATION

IN CASE OF AN EMERGENCY, USE THIS SHEET

EMERGENCY PHONE NO:

911

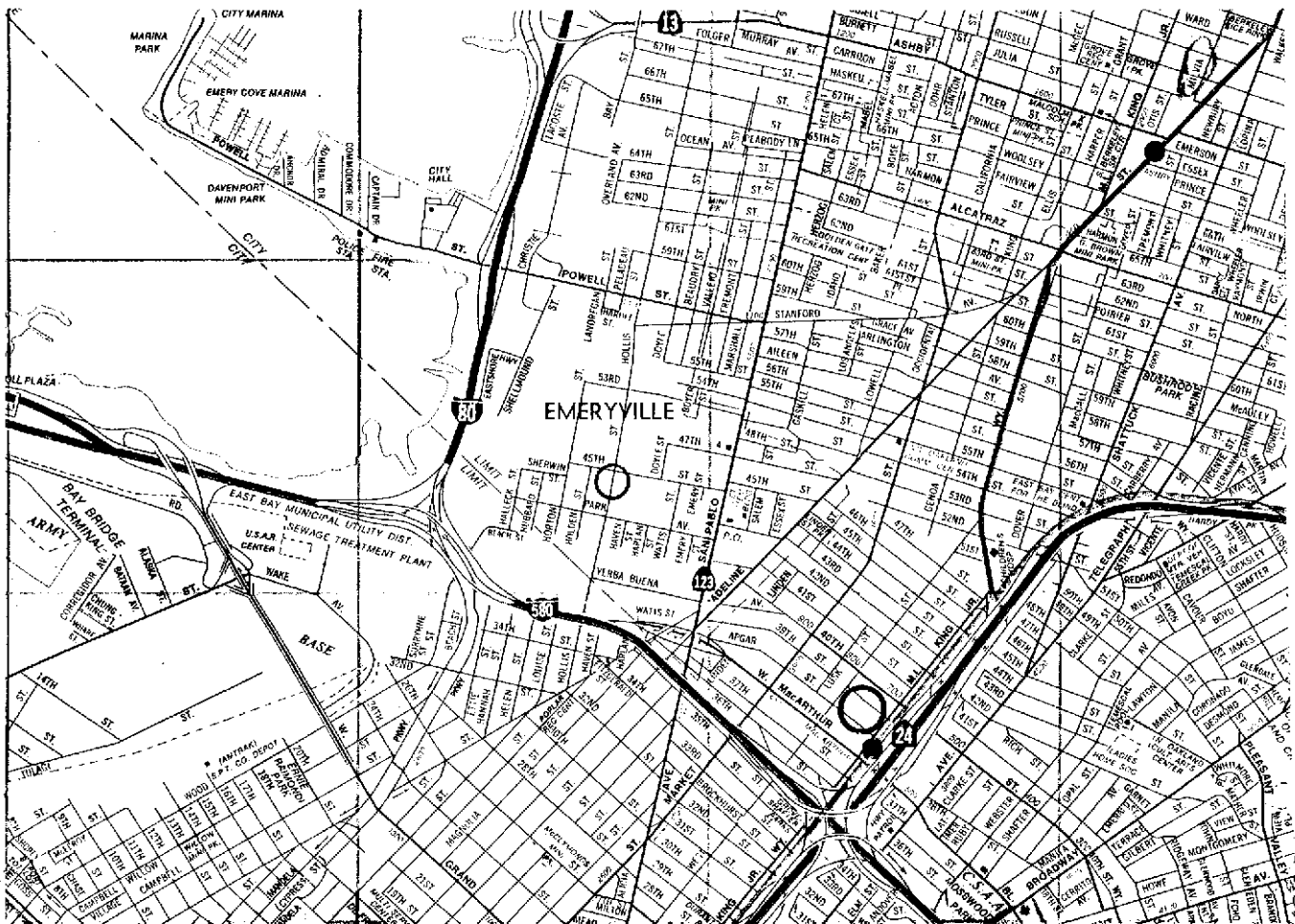
SITE ADDRESS:

**4525 HOLLIS STREET
EMERYVILLE, CA**

NEAREST INTERSECTION:

45TH STREET

SITE LOCATION



C O N T E N T S

| <u>SECTION</u> | <u>PAGE</u> |
|---|-------------|
| 1.0 INTRODUCTION..... | 4 |
| 2.0 WORK ACTIVITIES..... | 4 |
| 2.1 SITE SECURITY..... | 4 |
| 3.0 ONSITE ORGANIZATION..... | 4 |
| 3.1 PROJECT CONTACTS..... | 5 |
| 3.2 HEALTH AND SAFETY HAZARDS..... | 6 |
| 3.3 HAZARD ANALYSIS..... | 6 |
| 3.4 EXPOSURE PREVENTION & SAFETY REQUIREMENTS.. | 6 |
| 3.4.1 HAZARD EXPOSURE GUIDELINES..... | 6 |
| 3.4.2 DIESEL & GASOLINE FUEL HAZARDS..... | 7 |
| 3.4.3 TRAFFIC HAZARDS..... | 8 |
| 3.4.4 OPEN EXCAVATION PIT HAZARDS..... | 8 |
| 3.4.5 UNDERGROUND POWER LINE HAZARDS..... | 8 |
| 3.4.6 PERSONAL SAFETY EQUIPMENT..... | 9 |
| 3.4.7 GENERAL SAFETY EQUIPMENT..... | 10 |
| 4.0 TRAINING..... | 10 |
| 5.0 PROJECT-SPECIFIC TRAINING..... | 10 |
| 6.0 LEVELS OF PROTECTION FOR EACH WORK ZONE..... | 11 |
| 6.0.1 ASBESTOS..... | 11 |
| 7.0 WASTE HANDLING AND DISPOSAL..... | 12 |
| 8.0 PERSONAL INJURY..... | 12 |
| 9.0 EMERGENCY PHONE NUMBERS..... | 13 |
| 9.1 HOSPITAL/SITE MAP (FIGURE 1)..... | 14 |
| 10.0 OSHA STANDARD 29CFR1910.120 TRAINING INFO..... | 15 |
| 11.0 SIGN IN SHEET..... | 16 |
| 12.0 TRUCK ROUTE MAP..... | 17 |

1.0 INTRODUCTION

Paradiso Construction will furnish labor and equipment to remove two (2) 5,000 gallon single wall, steel tanks, associated piping and disposal of same by a certified tank destroyer.

This Health & Safety Plan is based on the work plan activities and the requirements of Title 29 of the Code of Federal Regulations, Section 1910.120 (29 CFR 1910.120).

2.0 WORK ACTIVITIES

The following subsections provide a description of the various work performed at the site, as well as health and safety hazards associated with each task.

2.1 SITE SECURITY

Access during all on-site activities will be restricted to authorized personnel. All personnel and authorized visitors must contact the Site Foreman/Safety Coordinator prior to entering and exiting the site.

3.0 ON-SITE ORGANIZATION

Each person shall be responsible for following the Health and Safety Plan's guidelines at the site. The Safety Officer is the appointed Foreman and his duties are as follows:

- Ensure that the Health and Safety Plan is implemented;
- Conduct "tailgate" meetings on a weekly basis and document items discussed;
- Conditions may change on site. Determine extent and conduct "tailgate" meetings on a basis that relates to conditions on site. Document items discussed.
- Stop work if the health and safety of workers is in question;
- Observe workers for signs and symptoms of exposure or heat stress;
- Evaluate the effectiveness of the personal protective equipment program on an ongoing basis and upgrade the program as needed;
- Inform the Field Supervisor of any deficiencies or

changes in health and safety practices;

- Perform daily review of the work practices and compliances with this Health and Safety Plan;
- Determine exclusion zones and assign personnel duties at each zone in case of an emergency;
- Prevent unauthorized personnel or equipment from entering the exclusion zones;

All essential and nonessential personnel entering or exiting any of the exclusion zones must comply with health and safety practices and procedures described in this Health and Safety Plan.

3.1 PROJECT CONTACTS

Unanticipated occurrences at the site must be reported to the following personnel as soon as possible:

- ERIC V. MONTESANO, Safety Coordinator and Project Manager
Paradiso Construction Co. 510-614-8390
San Leandro, CA 94577
- PAUL PARADISO, Project Manager 510-614-8390
Paradiso Construction Co.
San Leandro, CA 94577
- MICHELLE BOSCOE, Senior Env. Coordinator 510-649-3310
P.G.&E., Facilities Dept.
Emeryville, CA

3.2 HEALTH AND SAFETY HAZARDS

Health and safety concerns on site may consist of:

- Chemical hazards:
 - Diesel, Gasoline, Benzene, Toluene, Ethyl Benzene and Xylenes.
- Physical hazards:
 - Operation of heavy equipment;
 - Semi-Trucks/Automobiles and other vehicle traffic;
 - Excavation pits/trenches;
 - Underground electrical, water and sewer lines.

3.3 HAZARD ANALYSIS

To the best of our knowledge, the property previously operated gasoline, diesel, and waste oil tanks. Historic data and evaluation of subsurface data indicates the presence of elevated levels of petroleum hydrocarbons.

3.4 EXPOSURE PREVENTION AND SAFETY REQUIREMENTS

This section describes the hazard and danger of exposure to chemicals and physical hazards present at the site. Possible contingency plans and safety requirements are also presented on this section.

3.4.1 HAZARD EXPOSURE GUIDELINES

| Substances | CAL OSHA PEL | 1990-91 ZSVHOJ/ TLV |
|--------------|---------------------------------|---------------------------------|
| Benzene | 1 ppm (TWA) 25 ppm (Ceiling) | 1 ppm (TWA) |
| Toluene | 100 ppm (TWA) 150 ppm (STEL) | 100 ppm (TWA) 150 ppm (STEL) |
| Ethylbenzene | 100 ppm (TWA) 125 ppm (STEL) | 100 ppm (TWA) 125 ppm (STEL) |
| Xylene | 100 ppm (TWA) 150 ppm (STEL) | 100 ppm (TWA) 150 ppm (STEL) |
| Gasoline | 300 ppm (TWA) 500 ppm (STEL) | 300 ppm (TWA) 500 ppm (STEL) |

| | | |
|--------------------------|--|--|
| Oil Mist | 5 mg/m ³ (TWA) 10 mg/m ³ (STEL) | 5 mg/m ³ (TWA) 10 mg/m ³ (STEL) |
| Petroleum Distillates | 400 ppm (TWA) | 400 ppm (TWA) |

3.4.2 DIESEL & GASOLINE FUEL HAZARDS

A. Eye and skin exposure hazards: irritant

In case of exposure:

- Remove contaminated clothing and shoes;
- Flush affected areas with plenty of water for a minimum of 15 minutes;
- IF IN EYE, hold eyelids open and flush with plenty of water for a minimum of 15 minutes;
- If irritation or discomfort continues, seek medical aid immediately.

B. Internal exposure hazards: Harmful if swallowed.

In case of exposure:

- Seek medical attention;
- If victim is CONSCIOUS have victim drink water or milk;
- DO NOT INDUCE VOMITING.

C. Fire hazards: Combustible

Since flammable or combustible vapors are likely to be present, all potential sources of ignition must be eliminated. Caution must be taken to prevent the discharge of static electricity and to prevent accumulations of vapor at ground level. A combustible gas indicator should be used continuously to check hazardous vapor concentrations, lower explosive limit (LEL). Alarm of the combustible gas indicator should be set at 20% of LEL. Under alarm conditions, all work activities will cease and the area will be evacuated until the combustible vapor concentration can be controlled below 20% of the LEL. All open flame or spark-producing equipment in the area should be shut down and any electrical equipment used must be explosion proof.

In case of fire:

- Extinguish with dry chemical, foam or carbon dioxide.
- If fire cannot be extinguished within 30 seconds, call Fire Department immediately.
- Water may be ineffective on fire.

3.4.3 TRAFFIC HAZARDS

Stay at least 10 feet away from moving equipment. If closer than 10 feet:

- 1) Keep equipment in sight at all times;
- 2) Inform the operator of your location at all times.

The working area will be closed to traffic with barricades, caution tape, cones and other traffic control equipment. If the area cannot be barricaded, a flagperson will be assigned to direct traffic.

No unauthorized or unessential vehicles will be allowed to enter the barricaded area.

3.4.4 OPEN EXCAVATION PIT HAZARDS

Open excavation pits shall be clearly marked and barricaded. No confined space entry will be allowed. If a person falls into an open pit:

- DO NOT ENTER THE EXCAVATION PIT.
- If the person is conscious and can move, lower a ladder into the pit so that the person can climb out.
- If the person is unconscious, call the Fire Department.

3.4.5 UNDERGROUND POWER LINE HAZARDS

Call U.S. Alert at least 3 days before commencing excavation work. The owner will identify aboveground structures and utilities and will provide as-built blueprints for contractor use prior to start of project. If the location of underground utilities such as water, sewer or electrical lines is still unclear, the contractor will obtain the service of a utility location company before beginning any excavation. An area for excavated soil stockpile will be provided adjacent to the excavation.

If a power line is discovered or damaged during the work:

- Stop all activities.
- Stop all engines, mechanical and electrical equipment.
- Call Utility Company/U.S. Alert immediately.
(U.S. Alert - 1-800-642-2444)

In case of electrical injury:

- Shut off the source of electrical power before attempting rescue or treatment.
- Seek professional electrical personnel (Fire Department) to assist in rescue.
- Beware of, and expect, live electrical currents.

3.4.6 PERSONNEL SAFETY EQUIPMENT

The following personal protective equipment will be required AT ALL TIMES:

- Hard Hat
- Steel-toed shoes
- Safety glasses
- Nitrile gloves (required for personnel who will come in contact with soil or groundwater).

The following personal protective equipment will be optional or required as the need arises:

- Hearing protection equipment
- Coveralls - disposable (Tyvek), or fabric (any chemical protective needs).
- Gloves

Additional protection requirements are described in Section 6.0.

3.4.7 GENERAL SAFETY EQUIPMENT

The following equipment must be available and easily accessible for use:

- First Aid Kit
- Fire extinguishers (Foam, dry chemical or carbon dioxide)

Each company vehicle is equipped with the following items:

- First Aid Kit
- Fire Extinguisher
- "Stop/Slow" traffic signs
- Warning Triangle/Flair Kit

4.0 TRAINING

All personnel who may be exposed to onsite contaminants must provide documentation of the following:

- Current certification of 40 hours of (OSHA) classroom instruction/hands-on training to include:
 - Three days of field experience under the supervision of an experienced supervisor.
 - Eight hours of annual classroom refresher training.
- Eight hours of supervisory training if a team member is a designated supervisor.
- Hazard communications training.

5.0 PROJECT-SPECIFIC TRAINING

Project-specific training and information will be provided either before traveling to the site or at the site before entry into the exclusion zone. The information and training will be documented and will include the following:

- The contents of this Health and Safety Plan
- A discussion of the health and safety hazards; protective measures and work practices for handling contaminated soil, water or equipment.

6.0 LEVELS OF PROTECTION FOR EACH WORK ZONE

Protective equipment has been selected for use in each work zone based on anticipated hazards. Specific protective equipment requirements are as follows:

- Exclusion zone - Level D protection will be required within the exclusion zone for any workers engaged in sample collection or other activities on site. Level D protection will include a hard hat, steel-toed boots, safety glasses, hearing protection, and Nitrile gloves. Coveralls are optional but recommended.
- Level C protection will be required if PID readings exceeding 100 ppm total volatile organics over background concentration are recorded in the workers breathing zone. Level C protection will consist of disposable Tyvek coveralls, steel-toed boots, chemical resistant boot covers, splash goggles, chemical resistant disposable gloves (inner) and chemical resistant outer gloves. MSHA/NIOSH approved half-face or full face air-purifying respirator with dual organic vapor cartridges.
- Support Zone - No specific requirements.

6.0.1 ASBESTOS

Protective Clothing: Whenever there is a need for removing material containing asbestos, Contractor shall provide the following protective clothing or equipment and respirators.

- Full body disposable coveralls;
- Disposable shoe covers & hood;
- Impermeable gloves;
- Approved half mask or full face respirator with HEPA filter cartridge as a minimum;
- All protective clothing shall be handled and disposed in accordance with the applicable laws.

Asbestos Caution signs shall be displayed at all entrances to the work area in accordance with applicable laws.

7.0 **WASTE HANDLING AND DISPOSAL**

The waste handling procedures discussed in the work plan will be followed. Waste generated by implementation of this Health and Safety program may include spent protective clothing such as Tyvek suits, gloves and wash and rinse solutions. Protective clothing will be collected in a lined container. Liquid wastes will be collected and pumped or poured into holding tanks with equipment decontamination rinsate.

8.0 **PERSONAL INJURY**

In case of a minor personal injury, general first aid procedures should be implemented. A first aid kit will be available at the site at all times. More serious injuries may require assistance from paramedics. The Field Foreman or another designated person will contact the appropriate emergency personnel by dialing 911. Field Foreman or another designated person will contact the Safety Coordinator immediately following contact of medical personnel.

9.0 EMERGENCY PHONE NUMBERS

HOSPITAL LOCATIONS ON NEXT PAGE

Kaiser Permanente
280 W. MacArthur Blvd..
Oakland, 94115
510-596-1120

ReadiCare Medical Center
1350 Ocean Ave.
Emeryville, 94608
510-652-5800

AMBULANCE

CALL 911

FIRE DEPARTMENT

CALL 911

POLICE DEPARTMENT

CALL 911

AGENCY TELEPHONE NUMBERS:

National Response Center
800-424-8802

California Department of Health Services
415-540-2043

Regional Water Quality Control Board
415-464-1255

Bay Area Air Quality Management District
415-771-6000

Environmental Protection Agency
415-974-8076

Chemtrec
800-424-9300

Department of Transportation
415-876-9085

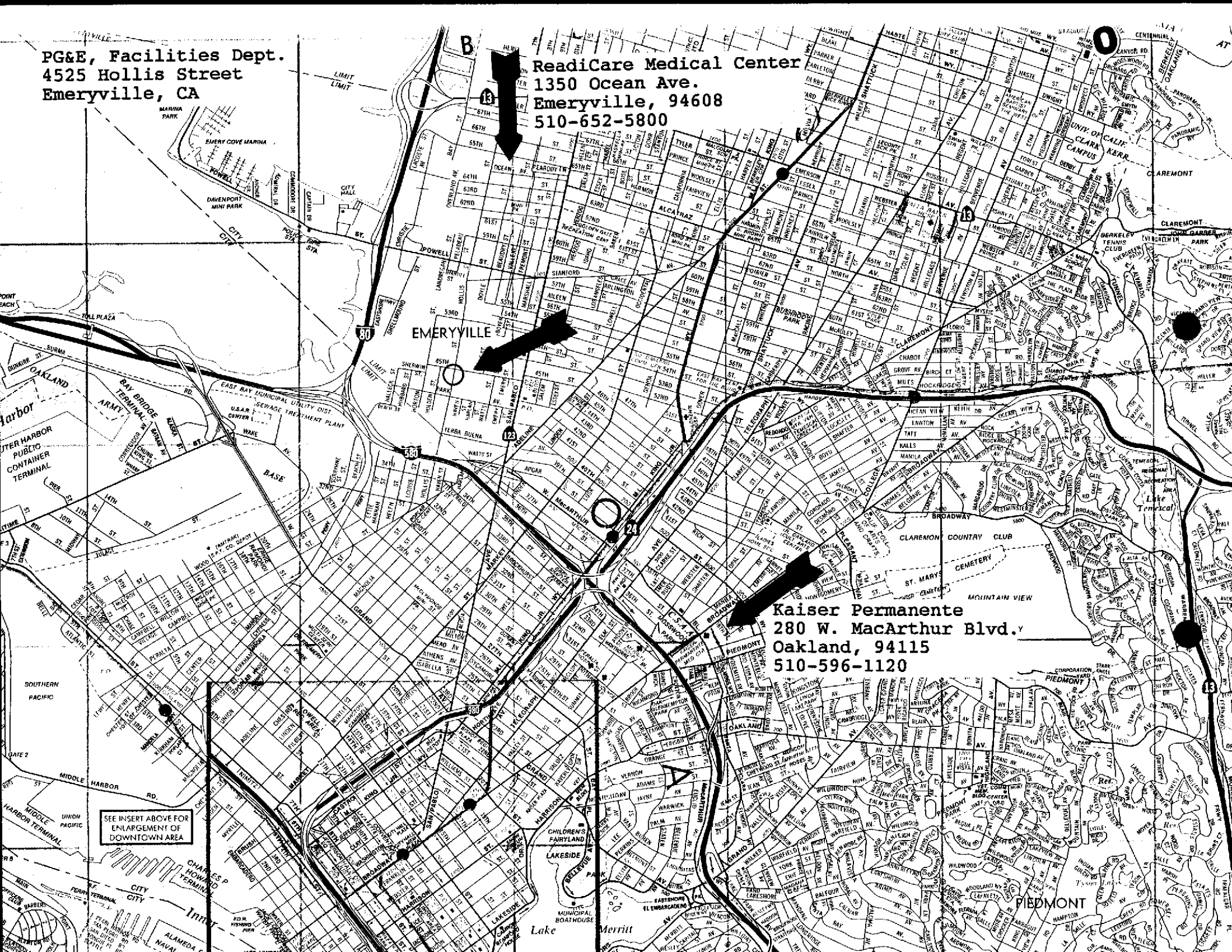
U.S. Alert Services
800-642-2444

PG&E, Facilities Dept.
4525 Hollis Street
Emeryville, CA

ReadiCare Medical Center
1350 Ocean Ave.
Emeryville, 94608
510-652-5800

Kaiser Permanente
280 W. MacArthur Blvd.
Oakland, 94115
510-596-1120

SEE INSERT ABOVE FOR
ENLARGEMENT OF
DOWNTOWN AREA



TO WHOM IT MAY CONCERN:

PARADISO CONSTRUCTION COMPANY FIELD EMPLOYEES HAVE RECEIVED THE 40 HOUR TRAINING REQUIREMENT UNDER OSHA STANDARD 29CFR1910.120 HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE TRAINING. ALL FIELD EMPLOYEES COMPLETED SUCH TRAINING FROM THE OCCUPATIONAL HEALTH AND SAFETY GROUP, INC., SANTA CLARA, CALIFORNIA, AND RECEIVED CERTIFICATES FOR COMPLETION OF SUCH TRAINING. CERTIFICATES ARE LOCATED AT THE HEAD OFFICE. FIELD EMPLOYEES HAVE IN THEIR POSSESSION AT ALL TIMES THE 40 HOUR OSHA TRAINING WALLET CARD.

MAY 1991

JOB: PG&E, Facilities Dept.
4525 Hollis Street
Emeryville, CA

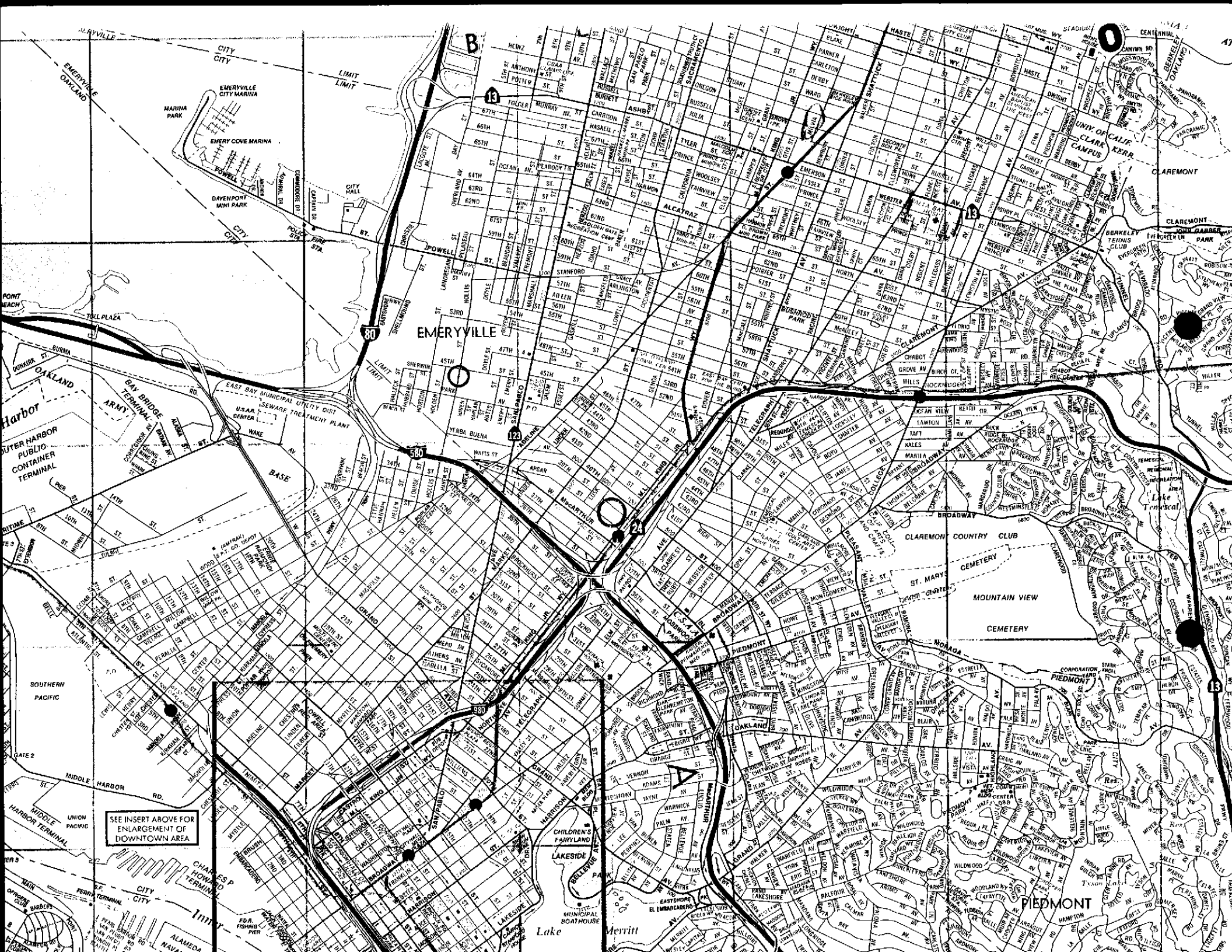
#826

SIGNATURE SHEET

I have read the attached Site Health and Safety Plan for this project and understand the contents therein.

NAME

DATE



SEE INSERT ABOVE FOR
ENLARGEMENT OF
DOWNTOWN AREA

EMERYVILLE

PIEDMONT

CLAREMONT COUNTRY CLUB
ST. MARY'S CEMETERY
MOUNTAIN VIEW
CEMETERY

CHILDREN'S FAIRYLAND
LAKE Merritt

Oakland Harbor
OUTER HARBOR PUBLIC
CONTAINER TERMINAL

EMERYVILLE CITY MARINA
EMERY COVE MARINA
DAVENPORT MINI PARK

MIDDLE HARBOR
UNION PACIFIC

ALAMEDA NAVAL AIR STATION

ALAMEDA NAVAL AIR STATION

RAMCON
Engineering & Environmental Contracting
3751 Commerce Drive
West Sacramento, CA 95691

*Leave
copy for
Gary Pforr*

FAX # (916) 372-4209

Phone # (916) 372-7535

FAX COVER SHEET

| | |
|---|---|
| DATE: | 12-5-93 |
| TO: | Michelle Bosco |
| COMPANY: | Pacific Gas and Electric |
| FAX NUMBER: 510-547-5735 | PHONE NUMBER: 510-649-3310 |
| FROM: | Bill Goodwin, RAMCON |
| COMMENTS: | Transformer Repair Facility, Emeryville, CA |
| <p>The new disposal facility for the water is: Gibson Environmental 475 Seaport Blvd. Redwood City, CA 94063 (415) 363-5511 EPA# CAD043260702</p> <p>The new transporter for the water is: Erickson, Inc. 255 Parr Blvd Richmond, 94801 (510) 235-1393 EPA# CAD009466392 Hauler# 019</p> <p>Included are the forms necessary for profiling the water into Gibson. As soon as I receive the analytical data from the water test I will forward the results to you so you can fill-out the profile and Non-Hazardous Disposal letter.</p> <p>The Workmans Compensation and Contractors License was included in the contract documents forwarded to Lisa Curtis-Walker so I hope these copies will suffice.</p> <p>I have talked to Gary Pforr about the schedule of work and we may be able to start this project earlier than December 13, 1993, but in any case we are confident the project will be completed before the end of the year. If you have any questions or wish to discuss this matter in greater detail please call me at (916) 372-7535.</p> | |
| Total Number of Pages (Including Cover Sheet): 5 | |

*MB
Gary:
We need
approval
from Coun
to get FE
Permit
MB*

IF THE COPY IS ILLEGIBLE OR PAGES ARE MISSING PLEASE CALL (916) 372-7535

CERTIFICATE OF INSURANCE

11/23/93

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

Whitaker Davis Insurance Svcs.
 c/o WRIGHT & KIMBROUGH
 P.O. Box 13966
 Sacramento, California 95853

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A**
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D** REPUBLIC IND. CO. OF AMERICA
- COMPANY LETTER **E**

INSURED
 RAMCON ENGINEERING &
 ENVIRONMENTAL CONTRACTING, INC
 P. O. BOX 10126
 West Sacramento CA 95691

WE DO NOT CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| TYPE OF INSURANCE | POLICY NUMBER | POLICY EFF. DATE (MM/DD/YY) | POLICY EXP. DATE (MM/DD/YY) | LIMITS | |
|--|---------------|-----------------------------|-----------------------------|---|-------------------------------|
| | | | | GENERAL AGGREGATE | |
| GENERAL LIABILITY <input type="checkbox"/> COMM. GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCC. <input type="checkbox"/> OWNERS & CONTRACTOR'S PRFT | | | | <input type="checkbox"/> PROD-COM/OP ACC. <input type="checkbox"/> FERS. & ADV. INJURY <input type="checkbox"/> EACH OCCURRENCE <input type="checkbox"/> FIRE DAMAGE (one firm) <input type="checkbox"/> MTD. EXP. (One Pool) | |
| AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> LEASED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY | | | | <input type="checkbox"/> COMBINED SINGLE LIMIT <input type="checkbox"/> BODILY INJURY (Per person) <input type="checkbox"/> BODILY INJURY (Per accident) <input type="checkbox"/> PROPERTY DAMAGE | |
| EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM | | | | <input checked="" type="checkbox"/> STATUTORY LIMITS <input type="checkbox"/> EACH OCCURRENCE AGGREGATE | |
| WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY | PC942941-94 | 10/01/93 | 10/01/94 | <input checked="" type="checkbox"/> EACH ACCIDENT <input checked="" type="checkbox"/> DISEASE-POLICY LIMIT <input checked="" type="checkbox"/> DISEASE-KICK INP. | 1000000 1000000 1000000 |
| OTHER | | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
 *10 DAY NOTICE OF CANCELLATION FOR NON-PAYMENT OF PREMIUM

CERTIFICATE HOLDER
 PACIFIC GAS & ELECTRIC COMPANY
 ATTN: MGR. OF INSURANCE
 77 BEALE ST., RM. E-280
 SAN FRANCISCO, CA 94106

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL SEND BY REGISTERED MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. SUCH NOTICE SHALL BE BASED UPON THE COMPANY'S AGENT OR REPRESENTATIVE.

AUTHORIZED REPRESENTATIVE
Don Diebels

P. 03
FAX NO. 9163724209
RAMCON
DEC--6-93 MON 16:01

State of California Contractors State License Board

Pursuant to Chapter 9 of Division 3 of the Business and Professions Code
and the Rules and Regulations of the Contractors State License Board,
the Registrar of Contractors does hereby issue this license to

**RAMCON ENGINEERING & ENVIRONMENTAL
CONTRACTING INC**



to engage in the business or act in the capacity of a contractor
in the following classification(s):

**A - GENERAL ENGINEERING CONTRACTOR
HAZ - HAZARDOUS SUBSTANCES REMOVAL**



Witness my hand and seal this day,
September 9, 1993

Michael A. Gause

Signature of Licensee

Issued May 4, 1987

Reissued September 8, 1993

David R. Phillips

Registrar of Contractors

Reassigned 510034

Michael A. Gause

Signature of License Qualifier

This license is the property of the Registrar of Contractors, is not
transferable, and shall be returned to the Registrar upon demand
when suspended, revoked, or invalidated for any reason. It becomes
void if not renewed.

License Number

Mr. Dick Dahm
GIBSON ENVIRONMENTAL
3300 Truxton Avenue, Suite 200
Bakersfield, CA 93301

Re: Disposal of Non-hazardous Liquid

Dear Mr. Dahm:

This letter is to confirm that the waste liquid that has been generated at _____ in _____, CA will be recycled at Gibson Environmental, 475 Seaport Boulevard, Redwood City, CA 94063. This material consists of approximately _____ (gallons/barrels) of non-hazardous liquid. Based upon testing and analysis performed at the request of Gibson, this liquid is not hazardous as defined by either the Code of Federal Regulations (40 CFR), Part 261, or the California Code of Regulations, Title 22.

If you have any questions, please contact me at () _____.

Sincerely,

Fax to (805) 327-2949

GIBSON LIQUID WASTE PROFILE SHEET *MLF*

Effective February 1, 1992

Please fill in completely all areas that apply to your material. This is an application, not an approval!

Generator _____

Facility Address _____

Mailing Address _____ Telephone _____

_____ EPA ID # _____

Technical Contact _____ Title _____

Transporter _____ State # _____

Contact _____ Title _____

Telephone _____ EPA ID # _____

Name of Waste _____

Activity Producing Waste _____

Does this waste contain Petroleum Hydrocarbons? Yes No

Approximate Concentrations (Account for 100%)

Petroleum Hydrocarbons _____ % Solids _____ % Water _____ % Other _____ %

pH _____ Flash _____ Odor _____

Is this waste a RCRA TCLP? Yes No

Is this waste a RCRA F-, K-, P-, or U-Listed Waste? Yes No

Does this waste contain any Lead, Chromium, or other "C.A.M. 17" metals? Yes No

If yes, what substances and at what concentrations (mg/L or mg/kg)? _____

Does this waste contain:

Reactive Cyanides or Sulfides of 1 ppm or more? Yes No

PCB's of 2 ppm or more? Yes No

Total Organic Halogens of 1000 ppm or more? Yes No

How will this waste be manifested:

Non-Hazardous on a Bill of Lading or Data Form? Yes No

On a Uniform Hazardous Waste Manifest as:

1. Non-RCRA Hazardous Waste Liquid? Yes No Waste Code _____

2. RCRA Hazardous Waste Liquid N.O.S. ORM-E NA 9189 (DO_)? Yes No Waste Code _____

3. Other _____

To the best of my knowledge, I certify that the above is true and correct.

Signature _____ Title _____ Date _____

My signature indicates permission for Hazardous Waste Manifests to be corrected by Gibson to conform with information furnished on this profile.

Facility Decision

Accept _____ Sample # _____ Release # _____ Facility _____

Manager _____ Date _____

STATE OF CALIFORNIA - ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

400 P Street, 4th Floor
P.O. Box 806
Sacramento, CA 95812-0806

(916) 324-2430

***** HAZARDOUS WASTE TRANSPORTER REGISTRATION *****

NAME AND ADDRESS OF REGISTERED TRANSPORTER:

Petroleum Recycling Corporation
2651 Walnut Avenue
Signal Hill, California 90806

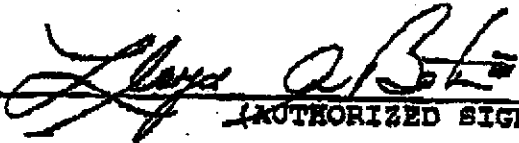
TRANSPORTER REGISTRATION NO: 2591

EXPIRATION DATE: March 31, 1994

THIS IS TO CERTIFY THAT THE FIRM NAMED ABOVE IS DULY REGISTERED TO TRANSPORT HAZARDOUS WASTE IN THE STATE OF CALIFORNIA IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 6.5, DIVISION 20 OF THE HEALTH AND SAFETY CODE AND DIVISION 4.5, TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.

THIS REGISTRATION CERTIFICATE MUST BE USED IN CONJUNCTION WITH VEHICLES AND/OR CONTAINERS WHICH HAVE BEEN CERTIFIED PURSUANT TO SECTION 256169.1, HEALTH AND SAFETY CODE, OR A VARIANCE ISSUED BY THE DEPARTMENT OF TOXIC SUBSTANCES CONTROL FOR HIGHWAY TRANSPORT WITH THE EXCEPTIONS OF TRANSPORT SOLELY BY WATER, RAIL OR AIR.

THIS REGISTRATION CERTIFICATE MUST BE CARRIED IN THE VEHICLE USED TO TRANSPORT HAZARDOUS WASTE.



(AUTHORIZED SIGNATURE)

MAR 31 1993

(DATE)



DEPARTMENT OF TOXIC SUBSTANCES CONTROL
REGION 1



10151 CROFTON WAY, SUITE 3
SACRAMENTO, CA 95827-2106
(916) 855-7700

September 25, 1991

PRC PATTERSON, INC.
dba REFINERIES SERVICE
13331 NORTH HIGHWAY 33
PATTERSON, CA 95363

TOXICITY CHARACTERISTIC
INTERIM STATUS DOCUMENT

EPA ID# CAD083166728

Effective Date: September 25, 19

Operator:
PRC PATTERSON, INC.
dba REFINERIES SERVICE
13331 NORTH HIGHWAY 33
PATTERSON, CA 95363

Pursuant to Section 25200.5 of the California Health and Safety Code, this Interim Status Document is hereby granted to PRC Patterson, Inc., which is currently operating under interim status subject to the conditions set forth in this document.

Val F. Siebal
Regional Administrator
Region 1

Certificate of Award

THIS CERTIFIES THAT

1857

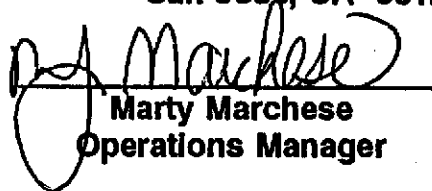
Bret Ramsey

successfully completed the Initial 40 Hour requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

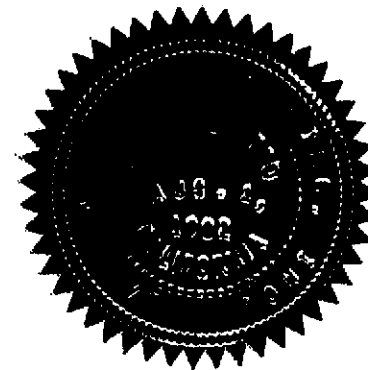
this fourteenth day of February 1992

Provided by: **Geo Line Safety Services**
1940 The Alameda
San Jose, CA 95126-1428


Marty Marchese
Operations Manager



Geo Line
Safety
Services



Certificate of Award

THIS CERTIFIES THAT

2233R

Bret Ramsey

successfully completed the **8 HOUR ANNUAL REFRESHER** requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Eleventh day of February 1993



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

A handwritten signature in black ink, appearing to read "Steve Arsenault", written over a horizontal line.

Steve Arsenault
Training Coordinator

Certificate of Award

THIS CERTIFIES THAT

1778

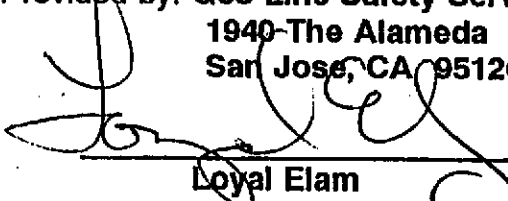
Trevor Stephens

successfully completed the Initial 40 Hour requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

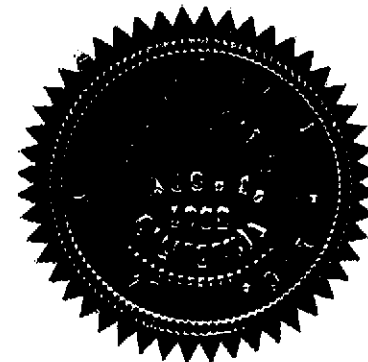
this sixth day of December 1991

Provided by: **Geo Line Safety Services**
1940 The Alameda
San Jose, CA 95126-1428


Loyal Elam
Training Center Director



Geo Line
Safety
Services



Certificate of Award

THIS CERTIFIES THAT

2134R

Trevor Stephens

successfully completed the **8 HOUR ANNUAL REFRESHER** requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Fifth Day of December 1992



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

A handwritten signature in cursive script that reads "Dani Renan".

Dani Renan
Course Instructor

Certification

May it be known by all who read this that

BARRY E. EDMISTON

has met and surpassed all of the requirements of

40 HOUR OSHA STANDARD, 29CFR 1910.120
HAZARDOUS WASTE OPERATIONS

Presented this 18 Day of September, 19 92

ENVIRONMENTAL COMPLIANCE SERVICES

ORGANIZATION

SIGNED



CONTROL # 091892-40 H

Certificate of Award

THIS CERTIFIES THAT

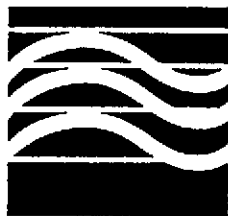
2239R

Barry E. Edmiston

successfully completed the **8 HOUR ANNUAL REFRESHER** requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Eleventh day of February 1993



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

A handwritten signature in cursive script that reads "Steve Arsenault".

Steve Arsenault
Training Coordinator

Certification

May it be known by all who read this that

RAUN PERERSEN

has met and surpassed all of the requirements of

**40 HOUR OSHA STANDARD, 29CFR 1910.120
HAZARDOUS WASTE OPERATIONS**

Presented this 25 Day of February, 19 93

ENVIRONMENTAL COMPLIANCE SERVICES

ORGANIZATION

SIGNED

Chas. P. Hor

CONTROL # 022593-40 F

Certificate

This is to certify that:
FRANK THOMAS PILE

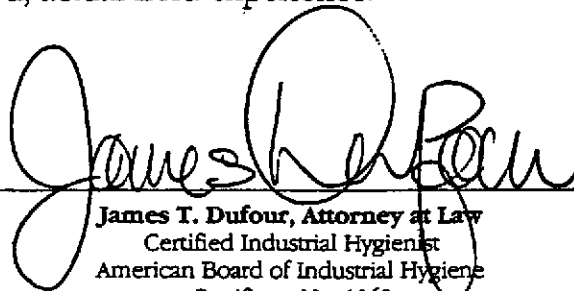
has received training as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard [29 CFR 1910.120(e)] consistent with the function and responsibilities of:

Investigation and Remedial Actions at Hazardous Waste Sites

This training level has been achieved by a combination of on-the-job training, work experience, prior safety training, and satisfactory completion of a comprehensive training program under my direction. This is the equivalent of 40 hours of initial and three days of supervised, actual field experience.

APRIL 5, 1990

Date


James T. Dufour, Attorney at Law
Certified Industrial Hygienist
American Board of Industrial Hygiene
Certificate No. 1068



Frank Pile

successfully completed the 8 HOUR ANNUAL REFRESHER requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Eleventh day of February 1993



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

Steve Arsenault
Training Coordinator

Certificate

This is to certify that:

BOB WHITE


has received training as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard [29 CFR 1910.120(e)] consistent with the function and responsibilities of:

Investigation and Remedial Actions at Hazardous Waste Sites

This training level has been achieved by a combination of on-the-job training, work experience, prior safety training, and satisfactory completion of a comprehensive training program under my direction. This is the equivalent of 40 hours of initial and three days of supervised, actual field experience.

APRIL 5, 1990

Date


James T. Dufour, Attorney at Law
Certified Industrial Hygienist
American Board of Industrial Hygiene
Certificate No. 1068

Certificate of Award

THIS CERTIFIES THAT

2241R

Bob White

successfully completed the **8 HOUR ANNUAL REFRESHER** requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Eleventh day of February 1993



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

A handwritten signature in black ink, appearing to read "Steve Arsenault", written over a horizontal line.

Steve Arsenault
Training Coordinator



GROUNDWATER TECHNOLOGY, INC.

certifies that

John Pile

has successfully met certificate requirements on

this *9th* day of *December*, 1988

for participation in a 40 hour training program on
Hazardous Waste Operations and Emergency Response

in accordance with OSHA 29CFR 1910.120

Edward A. Bernard, III

Edward A. Bernard, III, Regional Safety Officer

David B. Culpepper

David B. Culpepper, Corporate Vice President

Certification

May it be known by all who read this that

JOHN PILE

has met and surpassed all of the requirements of

8 HOUR REFRESHER TRAINING OSHA STANDARD, 29CFR 1910.120
HAZARDOUS WASTE OPERATIONS

Presented this 30th Day of JULY, 19 93

ENVIRONMENTAL COMPLIANCE SERVICES

ORGANIZATION

SIGNED

CONTROL # 073093-8B



Rollo Stephens

successfully completed the 8 HOUR ANNUAL REFRESHER requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Eleventh day of February 1993



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

Steve Arsenault
Training Coordinator

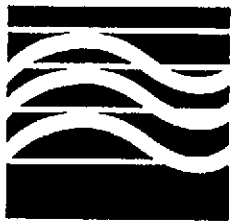


Jaff Auchterlonie

successfully completed the **8 HOUR ANNUAL REFRESHER** requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Eleventh day of February 1993



Geo Line

Provided by
Geo Line

425 Stockton Avenue
San Jose, CA 95126

Steve Arsenault
Training Coordinator

Certification

May it be known by all who read this that

CLAYTON MILLER

has met and surpassed all of the requirements of

8 HOUR REFRESHER TRAINING OSHA STANDARD, 29CFR 1910.120
HAZARDOUS WASTE OPERATIONS

Presented this 30th Day of JULY, 19 93

ENVIRONMENTAL COMPLIANCE SERVICES

ORGANIZATION

SIGNED



CONTROL # 073093-8A



NES

CERTIFICATE OF TRAINING

PRESENTED TO

WILLIAM JAMES GOODWIN

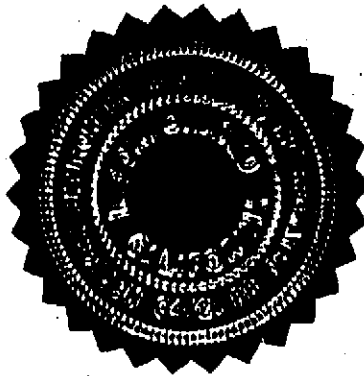
FOR HAVING SUCCESSFULLY COMPLETED

A TRAINING COURSE IN

OSHA 40-Hour Hazardous Waste Operations

PRESENTED BY

NETWORK ENVIRONMENTAL SYSTEMS, INC.



Drew Lazarus CIH
NES Coordinating Trainer

March 12-16, 1990
Date

Gerri Shea *Jerry Buckle*

Certificate of Award



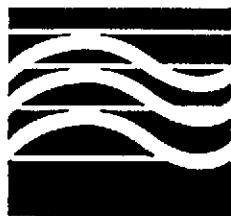
2013R

William J. Goodwin

successfully completed the 8 HOUR ANNUAL REFRESHER requirements
listed under OSHA Regulation 29 CFR 1910.120

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

this Nineteenth Day of August 1992



Geo Line

Provided by
Geo Line
425 Stockton Avenue
San Jose, CA 95126


Terry Schultheiss
Training Coordinator

Michelle E. Boscoe
Senior Environmental Coordinator
Pacific Gas & Electric Company
4525 Hollis Street
Emeryville, CA 94608

93 AUG -9 PM 2:47

Brian P. Oliva, REHS
Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

August 4, 1993

Dear Mr. Oliva:

Enclosed please find three copies of a completed Underground Storage Tank Closure Plan for the above-named facility, completed permit applications (Parts A and B), and a check (No. 31745632) for the required fees.

We intend to award this contract on a formal bid basis. At that time, complete information on the subcontractors to be used will be submitted.

If you have any questions, please contact me at 510-649-3310.

Thank you,



Michelle E. Boscoe

cc: G. Pforr
J. Holt
file

Handwritten note:
30 517 5847



Pacific Gas and Electric Company

77 Beale Street
San Francisco, CA

WELLS FARGO BANK
464 CALIFORNIA STREET
SAN FRANCISCO, CA 94120

11-24
1210

5773254

Date JULY 23, 1993

Check Number 31745632

Pay \$XXXXXXXXXX714.00

To The Order Of
ALAMEDA COUNTY HEALTH AGENCY
80 SWAN WAY #200
OAKLAND CA 94621

PAYABLES PROCESSING

J. Jenkins Hank
VICE PRESIDENT & TREASURER
Julia S. York
ASSISTANT TREASURER

⑈31745632⑈ ⑆121000248⑆4518 043245⑈

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

| | | | | |
|-----------------------|--|--|---|---|
| MARK ONLY ONE ITEM | <input type="checkbox"/> 1 NEW PERMIT <input type="checkbox"/> 2 INTERIM PERMIT | <input type="checkbox"/> 3 RENEWAL PERMIT <input type="checkbox"/> 4 AMENDED PERMIT | <input type="checkbox"/> 5 CHANGE OF INFORMATION <input type="checkbox"/> 6 TEMPORARY SITE CLOSURE | <input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE |
|-----------------------|--|--|---|---|

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

| | | | | |
|---|--|--|---|---|
| DBA OR FACILITY NAME PG&E, Facilities Dept. | | NAME OF OPERATOR Gary Fairbanks John Holt | | |
| ADDRESS 4525 Hollis Street | | NEAREST CROSS STREET 45th Street | PARCEL # (OPTIONAL) | |
| CITY NAME Emeryville | | STATE CA | ZIP CODE 94608 | SITE PHONE # WITH AREA CODE 510-649-3331 |
| <input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY | | | | |
| TYPE OF BUSINESS | | <input type="checkbox"/> 1 GAS STATION | <input type="checkbox"/> 2 DISTRIBUTOR | <input type="checkbox"/> 3 FARM |
| | | <input type="checkbox"/> 4 PROCESSOR | <input checked="" type="checkbox"/> 5 OTHER | <input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS |
| | | # OF TANKS AT SITE 2 | E. P. A. I. D. # (optional) CAD 982400418 | |

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

| | | | |
|---|---|--|---|
| DAYS: NAME (LAST, FIRST) Boscoe, Michelle | PHONE # WITH AREA CODE 510-649-3310 | DAYS: NAME (LAST, FIRST) Easley, Wendy | PHONE # WITH AREA CODE 510-649-3315 |
| NIGHTS: NAME (LAST, FIRST) Boscoe, Michelle | PHONE # WITH AREA CODE 510-939-6338 | NIGHTS: NAME (LAST, FIRST) Easley, Wendy | PHONE # WITH AREA CODE 510-538-3090 |

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

| | | | |
|---|--|--------------------------|---|
| NAME PG&E | CARE OF ADDRESS INFORMATION Ron Williams | | |
| MAILING OR STREET ADDRESS 123 Mission Street, Room 721A | <input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY | | |
| CITY NAME San Francisco | STATE CA | ZIP CODE 94105 | PHONE # WITH AREA CODE 415-973-2832 |

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

| | | | |
|--|--|--------------------------|---|
| NAME OF OWNER PG&E, Facilities Dept. | CARE OF ADDRESS INFORMATION | | |
| MAILING OR STREET ADDRESS 4525 Hollis Street | <input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY | | |
| CITY NAME Emeryville | STATE CA | ZIP CODE 94608 | PHONE # WITH AREA CODE 510-649-3331 |

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 323-9555 if questions arise.

TY(TK) HQ 44 - 032126

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED:

| | | | | |
|---|--|--------------------------------------|--------------------------------------|--|
| <input checked="" type="checkbox"/> box to indicate | <input checked="" type="checkbox"/> 1 SELF-INSURED | <input type="checkbox"/> 2 GUARANTEE | <input type="checkbox"/> 3 INSURANCE | <input type="checkbox"/> 4 SURETY BOND |
| | <input type="checkbox"/> 5 LETTER OF CREDIT | <input type="checkbox"/> 6 EXEMPTION | <input type="checkbox"/> 99 OTHER | |

VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING:
 I.
 II.
 III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

| | | |
|--|--|------------------------|
| APPLICANT'S NAME (PRINTED) SIGNATURE <i>Michelle Boscoe</i> | APPLICANT'S TITLE Michelle Boscoe Sr. Env. Coordinator | DATE 7/22/93 |
|--|--|------------------------|

LOCAL AGENCY USE ONLY

| | | |
|----------------------------------|--|-------------------------------------|
| COUNTY # <input type="text"/> | JURISDICTION # <input type="text"/> | FACILITY # <input type="text"/> |
| LOCATION CODE - OPTIONAL | CENSUS TRACT # - OPTIONAL | SUPVISOR - DISTRICT CODE - OPTIONAL |

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

| | | | | |
|--------------------|---|---|---|---|
| MARK ONLY ONE ITEM | <input type="checkbox"/> 1 NEW PERMIT | <input type="checkbox"/> 3 RENEWAL PERMIT | <input type="checkbox"/> 5 CHANGE OF INFORMATION | <input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE |
| | <input type="checkbox"/> 2 INTERIM PERMIT | <input type="checkbox"/> 4 AMENDED PERMIT | <input type="checkbox"/> 6 TEMPORARY TANK CLOSURE | <input checked="" type="checkbox"/> 8 TANK REMOVED |

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: **PG&E, Facilities Dept.**

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

| | |
|---|---|
| A. OWNER'S TANK I.D. # N/A | B. MANUFACTURED BY: Unknown |
| C. DATE INSTALLED (MO/DAY/YEAR) 12/18/24 | D. TANK CAPACITY IN GALLONS: 5,000 |

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

| | | |
|--|---|--|
| A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL <input type="checkbox"/> 2 PETROLEUM <input type="checkbox"/> 3 CHEMICAL PRODUCT | <input checked="" type="checkbox"/> 4 OIL <input type="checkbox"/> 80 EMPTY <input type="checkbox"/> 95 UNKNOWN | B. <input checked="" type="checkbox"/> 1 PRODUCT <input type="checkbox"/> 2 WASTE |
| C. <input type="checkbox"/> 1a REGULAR UNLEADED <input type="checkbox"/> 1b PREMIUM UNLEADED <input type="checkbox"/> 2 LEADED <input type="checkbox"/> 3 DIESEL <input type="checkbox"/> 4 GASAHOL <input type="checkbox"/> 5 JET FUEL <input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW) | | |

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED: **Non PCB Transformer Oil** C.A.S.#:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

| | | |
|---|---|---|
| A. TYPE OF SYSTEM <input type="checkbox"/> 1 DOUBLE WALL <input checked="" type="checkbox"/> 2 SINGLE WALL | <input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER <input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK) <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER | |
| B. TANK MATERIAL (Primary Tank) <input checked="" type="checkbox"/> 1 BARE STEEL <input type="checkbox"/> 5 CONCRETE <input type="checkbox"/> 9 BRONZE | <input type="checkbox"/> 2 STAINLESS STEEL <input type="checkbox"/> 6 POLYVINYL CHLORIDE <input type="checkbox"/> 10 GALVANIZED STEEL | <input type="checkbox"/> 3 FIBERGLASS <input type="checkbox"/> 7 ALUMINUM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER |
| C. INTERIOR LINING <input type="checkbox"/> 1 RUBBER LINED <input type="checkbox"/> 5 GLASS LINING | <input type="checkbox"/> 2 ALKYD LINING <input checked="" type="checkbox"/> 6 UNLINED | <input type="checkbox"/> 3 EPOXY LINING <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 4 PHENOLIC LINING <input type="checkbox"/> 99 OTHER |
| IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___ | | |
| D. CORROSION PROTECTION <input type="checkbox"/> 1 POLYETHYLENE WRAP <input type="checkbox"/> 5 CATHODIC PROTECTION | <input type="checkbox"/> 2 COATING <input checked="" type="checkbox"/> 91 NONE | <input type="checkbox"/> 3 VINYL WRAP <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 99 OTHER |
| E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) _____ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____ | | |

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

| | | | | |
|--------------------------------------|--|---|--|---|
| A. SYSTEM TYPE | <input checked="" type="radio"/> A <input checked="" type="radio"/> U 1 SUCTION | <input type="radio"/> A <input type="radio"/> U 2 PRESSURE | <input type="radio"/> A <input type="radio"/> U 3 GRAVITY | <input type="radio"/> A <input type="radio"/> U 99 OTHER |
| B. CONSTRUCTION | <input checked="" type="radio"/> A <input checked="" type="radio"/> U 1 SINGLE WALL | <input type="radio"/> A <input type="radio"/> U 2 DOUBLE WALL | <input type="radio"/> A <input type="radio"/> U 3 LINED TRENCH | <input type="radio"/> A <input type="radio"/> U 95 UNKNOWN <input type="radio"/> A <input type="radio"/> U 99 OTHER |
| C. MATERIAL AND CORROSION PROTECTION | <input type="radio"/> A <input type="radio"/> U 1 BARE STEEL <input type="radio"/> A <input type="radio"/> U 5 ALUMINUM | <input type="radio"/> A <input type="radio"/> U 2 STAINLESS STEEL <input type="radio"/> A <input type="radio"/> U 6 CONCRETE | <input type="radio"/> A <input type="radio"/> U 3 POLYVINYL CHLORIDE (PVC) <input type="radio"/> A <input type="radio"/> U 7 STEEL W/ COATING | <input type="radio"/> A <input type="radio"/> U 4 FIBERGLASS PIPE <input type="radio"/> A <input type="radio"/> U 8 100% METHANOL COMPATIBLE W/FRP <input type="radio"/> A <input type="radio"/> U 99 OTHER |
| D. LEAK DETECTION | <input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR | <input type="checkbox"/> 2 LINE TIGHTNESS TESTING | <input type="checkbox"/> 3 INTERSTITIAL MONITORING | <input checked="" type="checkbox"/> 99 OTHER None-Underground Visual-Above Ground |

V. TANK LEAK DETECTION

| | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> 1 VISUAL CHECK | <input checked="" type="checkbox"/> 2 INVENTORY RECONCILIATION | <input type="checkbox"/> 3 VADOZE MONITORING | <input type="checkbox"/> 4 AUTOMATIC TANK GAUGING | <input type="checkbox"/> 5 GROUND WATER MONITORING |
| <input type="checkbox"/> 6 TANK TESTING | <input type="checkbox"/> 7 INTERSTITIAL MONITORING | <input type="checkbox"/> 91 NONE | <input type="checkbox"/> 95 UNKNOWN | <input type="checkbox"/> 99 OTHER |

VI. TANK CLOSURE INFORMATION

| | | |
|--|---|---|
| 1. ESTIMATED DATE LAST USED (MO/DAY/YR) 1980 | 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING 0 GALLONS | 3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> |
|--|---|---|

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) Michelle Boscoe DATE 7/27/93

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

| | | | | |
|---------------|-------------------------|----------------|------------------------|--------|
| STATE I.D.# | COUNTY # | JURISDICTION # | FACILITY # | TANK # |
| | | | | |
| PERMIT NUMBER | PERMIT APPROVED BY/DATE | | PERMIT EXPIRATION DATE | |

REVISED 5/27/92

SUMMARY TABLE

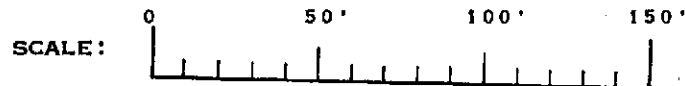
LABORATORY ANALYTICAL RESULTS OF SOIL SAMPLES

P.R.E.

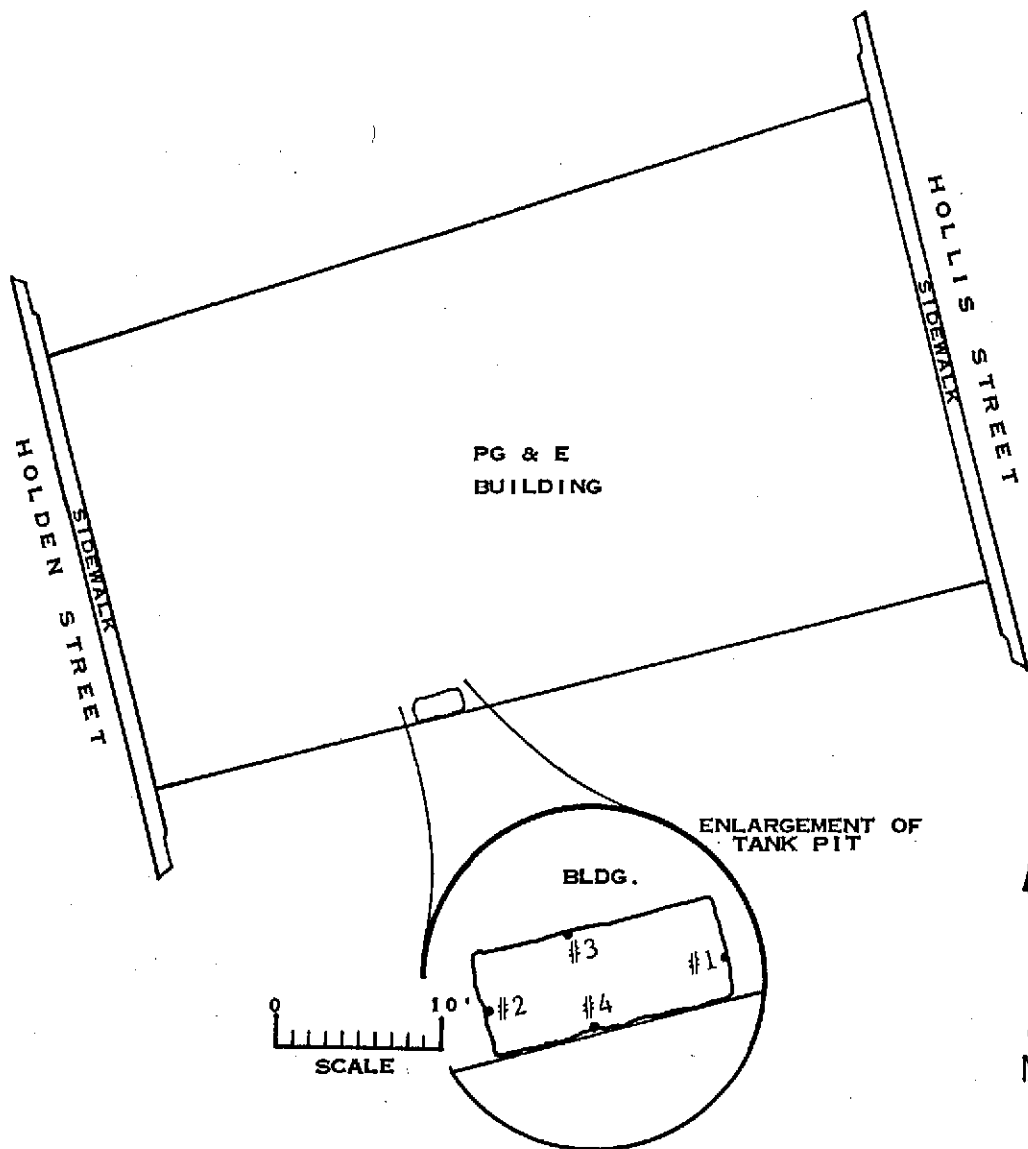
STAMCO

BLAINE TECH.

| | P.R.E. | | | STAMCO | | BLAINE TECH. | | | |
|----------------------------|-------------|-------------|-----------|------------------|------------------|---------------|---------------|---------------|----------------|
| | WEST END | EAST END | COMPOSITE | WEST 11/11/91 | EAST 11/11/91 | W-WALL #1 | E-WALL #2 | N-WALL #3 | S-WALL #4 |
| ALS: EPA METHOD 6010 | | | | | | | | | |
| zinc | 88.0 | 115.3 | 193.5 | 21.5 | | 5.7 <i>ft</i> | 5.2 <i>ft</i> | 5.3 <i>ft</i> | 5.25 <i>ft</i> |
| cad | 1.43 | 1.0 | 2.0 | 0.33 | | 32.0 | 43.0 | 45.7 | 35.2 |
| lead | 21.3 | 6.1 | 300 | 5.89 | | 2.94 | 3.50 | 2.85 | 2.78 |
| nickel | ND | 28.7 | 39.6 | 22.4 | | 1.37 | 2.00 | 2.28 | 1.62 |
| chrom | 27.5 | 16.5 | 26.5 | 18.2 | | 25.5 | 28.0 | 25.2 | 29.2 |
| EPA METHOD 8080 | | | | | | 26.5 | 28.5 | 27.1 | 26.8 |
| AR-1260 | 0.1 | ND | 0.2 | | | ND | ND | ND | ND |
| & GREASE: EPA METHOD 9071 | 115 | ND | 1.9 | ND | ND | ND | ND | ND | ND |
| AS KEROSENE | 6,230 | ND | ND | ND | ND | ND | ND | ND | ND |
| AS GAS | 460 | ND | 1.9 | ND | ND | ND | ND | ND | ND |
| VOLATILE ORGANICS: 8270 | | | | | | | | | |
| 2-methyl naphthlene | 0.40 | ND | ND | | | | | | |
| acenapthene | ND | ND | 0.3 | | | | | | |
| bis-(2 ethylhexo phthalate | 0.30 | ND | ND | | | | | | |
| benzo (a) pyrene | ND | ND | 0.12 | | | | | | |
| benzo (b) fluoranthene | ND | ND | 0.30 | | | | | | |



MAP REF: THOMAS BROS.
ALAMEDA COUNTY
P.3 E-6



- #1 SOIL SAMPLE FROM SIDE WALL OF PIT AT 58". ANALYSIS FOR TOTAL PETROLEUM HYDRO-CARBONS (TPH) AS GASOLINE, TPH AS DIESEL, KEROSENE, TOTAL OIL AND GREASE (TOG), CADMIUM (CD), CHROMIUM (CR), LEAD (PB), ZINC (ZN), NICKEL (NI) AND PCB'S AT CHROMALAB INC.
- #2 SOIL SAMPLE FROM SIDE WALL OF PIT AT 67". ANALYSIS FOR TPH AS GASOLINE, TPH AS DIESEL, KEROSENE, TOG, CD, CR, PB, ZN, NI AND PCB'S AT CHROMALAB INC.
- #3 SOIL SAMPLE FROM SIDE WALL OF PIT AT 64". ANALYSIS FOR TPH AS GASOLINE, TPH AS DIESEL, KEROSENE, TOG, CD, CR, PB, ZN, NI AND PCB'S AT CHROMALAB INC.
- #4 SOIL SAMPLE FROM SIDE WALL OF PIT AT 63". ANALYSIS FOR TPH AS GASOLINE, TPH AS DIESEL, KEROSENE, TOG, CD, CR, PB, ZN, NI AND PCB'S AT CHROMALAB INC.

SAMPLING PERFORMED BY CHUCK GRAVES
DIAGRAM PREPARED BY LI PAN

Pacific Gas and Electric Company

Repair Facility
4525 Hollis Street
Emeryville, CA 94608-2999
510/649-3350

ALCO
HAZMAT

93 DEC -8 PM 2: 09



December 8, 1993

Susan Hugo
Alameda County DHS
80 Swan Way, Room 200
Oakland, CA 94621

Dear Ms. Hugo:

I am sending you the document as per your request. Please call Wendy Easley at (510) 649-3315 when an approved copy is available for pickup. Thanks!

Sincerely,

A handwritten signature in black ink, appearing to read 'Michelle E. Boscoe'. The signature is fluid and cursive, written over a white background.

Michelle E. Boscoe
Senior Environmental Coordinator

MEB:ljs

Enclosures

cc: Wendy Easley

Property on PGE, E Co.
Attn: Bill White
4525 Hollis Street
Emeryville 94608
Gary Fairbanks

DATE: 2/19/92
TO : Local Oversight Program
FROM: RON OWCARZ
SUBJ: Transfer of Eligible Oversight Case

Site name: P.G.+E.
Address: 4227 Hollis St city Emeryville zip 94608
Closure plan attached? Y N DepRef remaining \$ 0
DepRef Project # 1718A STID #(if any) 355
Number of Tanks: 1 removed? Y N Date of removal 10/24/91
Leak Report filed? Y N Date of Discovery 10/24/91 11/19/91
Samples received? Y N Contamination: soil (and water?)
Petroleum Y N Types: Avgas Jet leaded unleaded Diesel PCBs
fuel oil waste oil kerosene solvents
Monitoring wells on site 0 Monitoring schedule? Y N

Briefly describe the following:

Preliminary Assessment NA

Remedial Action Pulled ^{leaking} underground tank

Post Remedial Action Monitoring None

Enforcement Action _____

Comments: No definition of soil and ground water contamination
They need to submit work plan to ~~more~~ identify and
remove this contamination, etc.

Kerosene - 61230 ppm } soil
TPHg - 460 ppm
OEG - 115 ppm

§ 66680
(p. 1800.12)

ENVIRONMENTAL HEALTH

TITLE 22

(Register 84, No. 41--10-13-84)

- 457. Mercuric oxide (red and yellow) (T,F)
- 458. Mercuric cyanide (T,R)
- 459. Mercuric potassium iodide, Mayer's reagent (T)
- 460. Mercuric salicylate, Salicylated mercury (T)
- 461. Mercuric subsulfate, Mercuric dioxysulfate (T)
- 462. Mercuric sulfate, Mercury sulfate (T)
- 463. Mercuric thiocyanide, Mercury thiocyanate (T)
- 464. Mercuriol, Mercury nucleate (T)
- 465. Mercurous bromide (T)
- 466. Mercurous gluconate (T)
- 467. Mercurous iodide (T)
- 468. Mercurous nitrate (T,R)
- 469. Mercurous oxide (T)
- 470. Mercurous sulfate, Mercury bisulfate (T)
- 471. Mercury (T)
- 472. Mercury compounds (T)
- 473. Metal carbonyls (T)
- 474. Metal hydrides (F,R)
- 475. Metal powders (T,F)
- 476. Metal powders (T,F)
- 477A. *Methionyl, LANNATE, S-Methyl-N-((methyl-carbamoyl)oxy)thioacetimidate (T)
- 477B. *Methoxychlor; 1,1,1-Trichloro-2,2-bis(p-methoxyphenyl)ethane, CHEMFLOM, MARLATE (T)
- 478. *Methoxyethylmercuric chloride, AGALLOL, ARETAN (T)
- 479. Methyl acetate (T,F)
- 480. Methyl acetone (Mixture of acetone, methyl acetate, and methyl alcohol) (T,F)
- 481. Methyl alcohol, Methanol (T,F)
- 482. Methylaluminum sesquibromide (F,R)
- 483. Methylaluminum sesquichloride (F,R)
- 484. Methylamine, Aminomethane (T,F)
- 485. N-Methylaniline (T)
- 486. *Methyl bromide, Bromomethane (T)
- 487. 2-Methyl-1-butene (F)
- 488. 3-Methyl-1-butene (F)
- 489. Methyl butyl ether (and isomers) (T,F)
- 490. Methyl butyrate (and isomers) (T,F)
- 491. Methyl chloride, Chloromethane (T,F)
- 492. *Methyl chloroformate, Methyl chlorocarbonate (T,F,R)
- 493. *Methyl chloromethyl ether, CMME (T,F)
- 494. Methylcyclohexane (T,F)
- 495. *Methyldichloroarsine (T)
- 496. *Methyldichlorosilane (T,F,R)
- 497. *4,4-Methylene bis(2-chloroaniline), MOCA (T)
- 498. Methyl ethyl ether (T,F)
- 499. Methyl ethyl ketone, 2-Butanone (T,F)
- 500. Methyl ethyl ketone peroxide (T,F)
- 501. Methyl formate (T,F)
- 502. *Methyl hydrazine, Monomethyl hydrazine, MMH (T,F)

TITLE 22

ENVIRONMENTAL HEALTH

(Register 84, No. 41--10-13-84)

§ 66680

(p. 1800.13)

- 503. *Methyl isocyanate (T,F)
- 504. Methyl isopropenyl ketone, 3-Methyl-3-butene-2-one (T,F)
- 505. *Methylmagnesium bromide (C,F,R)
- 506. *Methylmagnesium chloride (C,F,R)
- 507. *Methylmagnesium iodide (C,F,R)
- 508. Methyl mercaptan, Methanethiol (T,F)
- 509. Methyl methacrylate (monomer) (T,F)
- 510. *Methyl parathion; O,O-Dimethyl-O-para-nitrophenylphosphorothioate (T)
- 511. Methyl propionate (F)
- 512. *Methyltrichlorosilane (T,C,F,R)
- 513. Methyl valerate, Methyl pentanoate (and isomers) (F)
- 514. Methyl vinyl ketone, 3-Butene-2-one (T,F)
- 515A. *Mevinphos, PHOSDRIN, 2-Carbomethoxy-1-methylvinyl dimethyl phosphate (T)
- 515B. *Mitec; 1,1a,2,2,3,3a,4,5,5a,5b,6-Dodecachlorooctahydro-1,3,4-metheno-11-cyclobuta (ed) pentalene, Dechlorane (T)
- 516. *MOCAP, O-Ethyl-S,S-dipropyl phosphorodithioate (T)
- 517. Molybdenum (powder) (F)
- 518. Molybdenum trioxide, Molybdenum anhydride (T)
- 519. Molybdic acid and salts (T)
- 520. Monochloroacetic acid, Chloroacetic acid, MCA (T,C)
- 521. Monochloroacetone, Chloroacetone, 1-Chloro-2-propanone (T)
- 522. Monofluorophosphoric acid (T,C)
- 523. Naphtha (of petroleum or coal tar origin), Petroleum ether, Petroleum naphtha (T,F)
- 524. Naphthalene (T,S)
- 525. *alpha-Naphthylamine (T)
- 526. *beta-Naphthylamine, 2-NA (T)
- 527. Neohexane; 2,2-Dimethylbutane (T,F)
- 528. Nickel (powder) (T,F)
- 529. Nickel acetate (T)
- 530. Nickel antimonide (T)
- 531. *Nickel arsenate, Nickleous arsenate (T)
- 532. *Nickel carbonyl, Nickel tetracarbonyl (T)
- 533. Nickel chloride, Nickleous chloride (T)
- 534. *Nickel cyanide (T)
- 535. Nickel nitrate, Nickleous nitrate (T,F,R)
- 536. Nickel selenide (T)
- 537. Nickel sulfate (T)
- 538. Nicotine, beta-pyridyl-alpha-N-methyl pyrrolidine (T)
- 539. Nicotine salts (T)
- 540. Nitric acid (T,C,F)
- 541. Nitroaniline, Nitroaniline (ortho, meta, para) (T,R)
- 542. *Nitrobenzol, Nitrobenzene (T)
- 543. *4-Nitrobiphenyl, 4-NBP (T)
- 544. Nitro carbo nitrate (F,R)
- 545. Nitrocellulose, Cellulose nitrate, Cuncotton, Pyroxylin, Collodion, Pyroxylin (nitrocellulose) in ether and alcohol (F,R)

§ 66680

(p. 1800.14)

ENVIRONMENTAL HEALTH


TITLE 22

(Register 84, No. 41--10-13-84)

- 546. Nitrochlorobenzene, Chloronitrobenzene (ortho,meta,para) (T)
- 547. Nitrogen mustard (T,C)
- 548. Nitrogen tetroxide, Nitrogen dioxide (T,F)
- 549. Nitroglycerin, Trinitroglycerin (T,F,R)
- 550. Nitrohydrochloric acid, Aqua regia (T,C,F)
- 551. *Nitrophenol (ortho, meta, para) (T)
- 552. *N-Nitrosodimethylamine, Dimethyl nitrosamine (T)
- 553. Nitrosoguanidine (R)
- 554. Nitrostarch, Starch nitrate (F,R)
- 555. Nitroxytol, Nitroxyene, Dimethylnitrobenzene (2,4,3,4,2,5-isomers) (T)
- 556. 1-Nonene, 1-Nonylene (and isomers) (T,F)
- 557. *Nonyltrichlorosilane (T,R)
- 558. *Octadecyltrichlorosilane (T,R)
- 559. n-Octane (and isomers) (T,F)
- 560. 1-Octene, 1-Caprylene (T,F)
- 561. *Octyltrichlorosilane (T,R)
- 562. *Oleum, Fuming sulfuric acid (T,C,R)
- 563. Osmium compounds (T)
- 564. Oxalic acid (T)
- 565. *Oxygen difluoride (T,C,R)
- 566. *Para-oxon, MINTACOL; O,O-Diethyl-O-para-nitrophenyl phosphite (T)
- 567. *Parathion; O,O-Diethyl-O-para-nitrophenyl phosphorothioate (T)
- 570A. *Pentaborane (T,F,R)
- 570B. Pentachlorophenol, PCP, DOWICIDE 7 (T)
- 571. Pentacythrite tetraniolate, Pentacythritol tetraniolate (R)
- 572. n-Pentane (and isomers) (T,F)
- 573. 2-Pentanone, Methyl propyl ketone (and isomers) (T,F)
- 574. Peracetic acid, Peroxyacetic acid (T,C,F,R)
- 575. Perchloric acid (T,C,F,R)
- 576. Perchloroethylene, Tetrachloroethylene (T)
- 577. *Perchloromethyl mercaptan, Trichloromethylsulfenyl chloride (T)
- 578. Perchloryl fluoride (T,C,F)
- 580. Phenol, Carboic acid (T,C)
- 581. *Phenyldichloroarsine (T)
- 582. Phenylendiamine, Diaminobenzene (ortho,meta,para) (T)
- 583. Phenylhydrazine hydrochloride (T)
- 584. *Phenylphenol, Orthozenol, DOWICIDE 1 (T)
- 585. *Phenyltrichlorosilane (T,R)
- 586. *Phorate, THIMET; O,O-Diethyl-S-(Ethylthio) methyl phosphorodithioate (T)
- 587. *Phosolan, CYOLAN, 2-(Diethoxyphosphinylimino)-1,3-dithiolane (T)
- 588. *Phosgene, Carbonyl chloride (T,R)
- 589. *Phosphanidon, DIMECRON, 2-Chloro-2-diethylcarbamoyl-1-methylvinyl dimethyl phosphate (T)
- 590. *Phosphine, Hydrogen phosphide (T,F)
- 591. Phosphoric acid (C)
- 592. Phosphoric anhydride, Phosphorus pentoxide (C,F)

432
3550
6750

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

| | | | | | |
|--|---|--|---|--|--|
| EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. | |
| REPORT DATE 1 M 1 1 d 9 9 y 1 y | | CASE # | | SIGNED: <i>Susan Hugo</i> DATE: 12/2/91 | |
| REPORTED BY | NAME OF INDIVIDUAL FILING REPORT Bill Utic | | PHONE (510) 874-2239 | | SIGNATURE  |
| | REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER | | COMPANY OR AGENCY NAME Pacific Gas and Electric Company | | |
| | ADDRESS 1919 Webster 6th floor Oakland CA 94612 <small>STREET CITY STATE ZIP</small> | | | | |
| RESPONSIBLE PARTY | NAME PG&E <input type="checkbox"/> UNKNOWN | | CONTACT PERSON Gary Fairbanks | | PHONE (510) 649-3331 |
| | ADDRESS 4525 Hollis St. Emeryville CA 94608 <small>STREET CITY STATE ZIP</small> | | | | |
| SITE LOCATION | FACILITY NAME (IF APPLICABLE) PG&E | | OPERATOR Gary Fairbanks | | PHONE (510) 649-3331 |
| | ADDRESS 4227 Hollis Street Emeryville Alameda 94608 <small>STREET CITY COUNTY ZIP</small> | | | | |
| | CROSS STREET 45th Street | | | | |
| IMPLEMENTING AGENCIES | LOCAL AGENCY AGENCY NAME Alameda County Health Agency | | CONTACT PERSON Susan Hugo | | PHONE (510) 271-4320 |
| | REGIONAL BOARD Regional Water Quality Control Board | | CONTACT PERSON Eddy So | | PHONE (510) 464-1255 |
| SUBSTANCES INVOLVED | (1) NAME QUANTITY LOST (GALLONS) Kerosene <input checked="" type="checkbox"/> UNKNOWN | | | | |
| | (2) <input type="checkbox"/> UNKNOWN | | | | |
| DISCOVERY/ABATEMENT | DATE DISCOVERED 1 M 0 M 2 D 4 D 9 Y 1 Y | | HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Foundation Upgrade | | |
| | DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN | | METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER | | |
| | HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1 M 0 M 2 D 4 D 9 Y 1 Y | | | | |
| SOURCE/ CAUSE | SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER | | CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER | | |
| | CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) | | | | |
| CURRENT STATUS | CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY | | | | |
| | CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) | | | | |
| COMMENTS | | | | | |



91 NOV 27
ENVIRONMENTAL

912 Harbour Way South • Richmond, California 94804 • (510) 233-6558 • FAX: (510) 237-6739

November 20, 1991

Stamco Inc.
P. O. Box 150
San Martin, California 95046

Attention: Messrs. Lee Soares & Richard Camacho

Gentlemen:

This letter is to confirm our meeting of this date November 19, 1991, with representatives from Pacific Gas and Electric Company, Plant Reclamation Environmental, Stamco and Alameda County Health concerning the underground storage tank removal of October 24, 1991 at 4227 Hollis Street, Emeryville, California.

As per this meeting, it was requested that Plant Reclamation Environmental be removed from the closure plan as "contractor" and that a document verifying such be sent to Plant Reclamation Environmental.

Plant Reclamation Environmental performed the services requested on October 24, 1991 per the Purchase Order SE-4464 dated October 22, 1991 issued by Stamco and we feel our services were completed as of that date except for submission of our final report. Our final report was submitted on November 19, 1991 at the above meeting.

Upon receipt of our final bills from our laboratory, we will submit our final invoice.

Thank you very much.

Sincerely,

Fred Glueck
Plant Reclamation

FG/sdb

cc: Armando Roderiguez
Bill Utic
Loretta F. Altshuler

Pacific Gas and Electric Company

1919 Webster Street
Oakland, CA 94612
415/835-8500

November 19, 1991

91 NOV 21 AM 11:33



Ms. Susan Hugo
Hazardous Materials Specialist
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Rm. 200
Oakland, CA 94621

Re: PG&E Emeryville Shops
4227 Hollis Street
Emeryville, CA

Dear Ms. Hugo:

Attached for your review and file is the completed Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report.

If you have any questions about the attached please contact me on 874-2239 or Loretta Altshuler on 874-2422.

Sincerely,

A handwritten signature in cursive script that reads "Bill Utic".

Bill Utic
Environmental Project Manager

LA:sc

cc: Mr. Eddy So
Regional Water Quality
Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

Attachment

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name DGE Today's Date 11/19/91

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 4227 Halpin St.

City Emeryville Zip 94608 Phone _____

MAX AMT stored > 500 lbs. 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- ___ II. Business Plans, Acute Hazardous Materials
- ___ III. Underground Tanks

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(i)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

2-31514
 Comments:

III. UNDERGROUND TANKS (Title 23)

- General
- ___ 1. Permit Application 25284 (H&S)
 - ___ 2. Pipeline Leak Detection 25292 (H&S)
 - ___ 3. Records Maintenance 2712
 - ___ 4. Release Report 2651
 - ___ 5. Closure Plans 2670

- Monitoring for Existing Tanks
- ___ 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose Semi-annual groundwater One time soils
 - 3) Daily Vadose One time soils Annual tank test
 - 4) Monthly Gndwater One time soils
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/gndwater mon.
 - 6) Daily Inventory Annual tank testing Cont pipe leak det
 - 7) Weekly Tank Gauge Annual tank testing
 - 8) Annual Tank Testing Daily Inventory
 - 9) Other _____

- ___ 7. Precis Tank Test Date: _____ 2643
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing 2646
- ___ 10. Ground Water. 2647

- New Tanks
- ___ 11. Monitor Plan 2632
 - ___ 12. Access. Secure 2634
 - ___ 13. Plans Submit Date: _____ 2711
 - ___ 14. As Built Date: _____ 2635

4 - sidewalk ~~Ex~~ bottles taken
 Ex *w* + deep 3 inches
 Sample taken after over-cautering
 4 feet deep - ND for most
 contaminants (at about 8 feet)
 Blaine Tech - collected the samples
 Storico (Rick Concho) at site

Rev 6/88

Contact: _____

Title: _____

Signature: _____

Inspector: _____
 Signature: Susan L. Hays

II, III

300 Lakeside Drive, Suite 203
Oakland, CA 94612
phone (510) 444-3190
pager (510) 448-1959



Michael Kara
Manager, Remedial Services

Handwritten initials



STATE CONT. LIC. # 518628

PLANT RECLAMATION
FRED GLUECK

(415) 233-8552
FAX # (415) 237-6739

912 HARBOUR WAY SO.
RICHMOND, CALIFORNIA 94804

Richard Comichio

STAMCO, INC.

Environmental Services/Transportation

(408) 268-1196 (408) 683-2395
Fax (408) 683-0577
P.O. Box 150, San Martin, CA 95046

A WMBE Certified Corporation

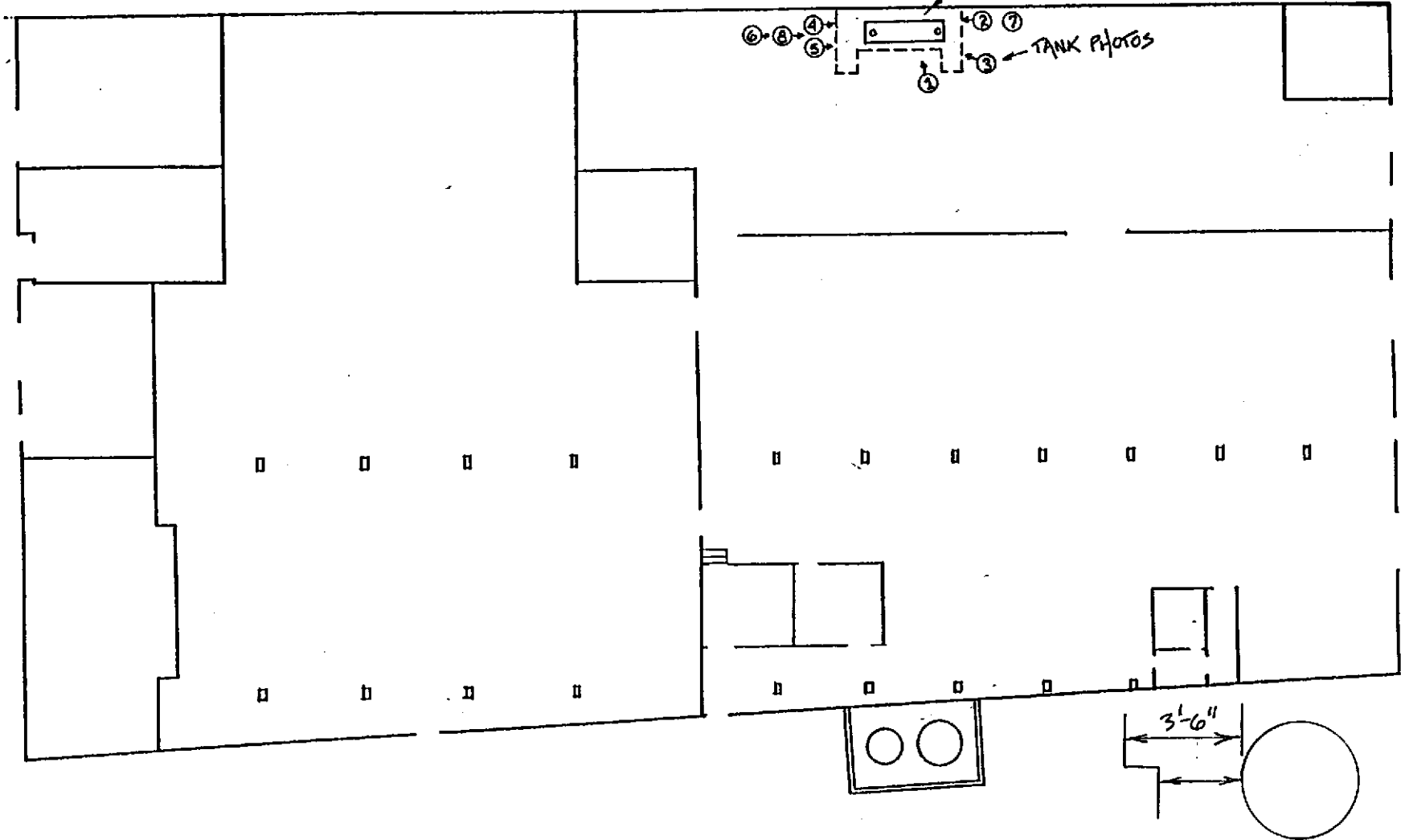


4227 Hollis

TANK

TANK PHOTOS

HOLLIS STREET

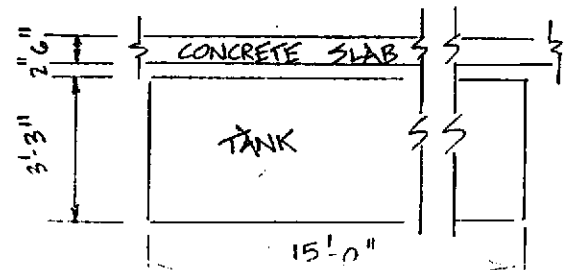


PARKING AREA



OCB BUILDING

SCALE: 1" = 30'



ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

II, III

white -env.health
yellow -facility
pink -files

Site ID # _____ Site Name PG&E Today's Date 10/24/91

Site Address 4227 Hallis
City Emeryville Zip 94608 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

11:130 PM

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Removal of 1 - approx 500 G tank - unknown product/contents
approx - 700-800 G tank

LEL - 5% Emeryville Fire Dept
UEL - 20% PCE Environmental

WALL looks like a hot spot
to West

STAMCO - Haz Waste Hauler license #
exp Site 92 (213238)

manifest # 91512187 to Erickson

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(i)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General**
- 1. Permit Application 25284 (H&S)
- 2. Pipeline Leak Defection 25292 (H&S)
- 3. Records Maintenance 2712
- 4. Release Report 2651
- 5. Closure Plans 2670
- 6. Method
- 1) Monthly Test
- 2) Daily Vadose
- Semi-annual groundwater
- One time soils
- 3) Daily Vadose
- Annual tank test
- One time soils
- 4) Monthly Gndwater
- Annual tank testing
- Cont pipe leak det
- Vadose/gndwater mon.
- 5) Daily Inventory
- Annual tank testing
- Cont pipe leak det
- 6) Daily Inventory
- Annual tank testing
- Cont pipe leak det
- 7) Weekly Tank Gauge
- Annual tank testing
- 8) Annual Tank Testing
- Daily Inventory
- 9) Other _____
- 7. Precs Tank Test 2643
- Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing . 2646
- 10. Ground Water. 2647
- Monitoring for Existing Tanks**
- 11. Monitor Plan 2632
- 12. Access. Secure 2634
- 13. Plans Submit 2711
- Date: _____
- 14. As Built 2635
- Date: _____
- New Tanks**

Contact: _____
Title: _____
Signature: _____

Inspector: Juan S. Hugo
Signature: _____

II, III

ENVIRONMENTAL

912 Harbour Way South • Richmond, California 94804 • (415) 233-6558 • FAX: (415) 237-6739

TO: Susan Hugo
Alameda County

FROM: Bob Kelly

DATE: 10/23/91

Message consists of 3 page(s), including this cover sheet.

Message: _____

If message is incomplete or illegible, please call (510) 233-6552. Our Fax Number is (510) 237-6739.

OCT 23 '91 9:20 FROM HLCO HAZMAT

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
Acknowledgement of Refund Recipient for Site Account
DEPOSITOR FILLS OUT PER SITE
-- REQUIRED --

The depositor will use this form to acknowledge that the property owner or his or her designee will receive any refund due at the completion of all deposit/refund projects at the site listed below.

SITE NUMBER/ADDRESS:

REFUND RECIPIENT-PROPERTY OWNER

4227 Hollis St.
Site Number

Same
Owner's Name

P.G. & E.
Company Name

4525 Hollis St.
Street Address

Same
Owner's Address

Emeryville, CA. 94608
City Zip Code

Same
Owner's City State Zip

I have read the description of the project Deposit/Refund Procedure, and have had an opportunity to ask questions about it. I understand that regardless of who deposits money into the site account, any deposit money remaining at the completion of all projects being conducted at this site will be refunded solely to the property owner or his or her designee.

Robert F. Kelly
Signature of Depositor Date 10-17-91

Robert F. Kelly
Depositor Name

P.R. Environmental
Company Name

912 Harbour Way So.
Street Address

Richmond, CA. 94804
City / Zip

OCT 23 1991 9:31 FROM ALCO HAZMAT

PAGE.002

18. Submit Worker's Compensation Certificate copy

Name of Insurer HANSON & HIGGINS OF OREGON

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) RICHARD CAMACHO / Robert F. Kelly
Signature [Handwritten Signature] / [Handwritten Signature]
Date 10/17/91 10-22-91

Signature of Site Owner or Operator

Name (please type) Gerald Beitzell
Signature [Handwritten Signature]
Date 10-17-91

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 PHONE NO. 415/271-4320

Project # 612118
 \$432.00
 10/17/91

Project Specialist (print) SUSAN L. HUGO

ACCEPTED
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 400 - 27th Street, Third Floor
 Oakland, CA 94612
 Telephone: (415) 974-2337

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans as required by the Department are to ensure compliance with State and local laws. This project proposed work is to be completed in accordance with any required notices or permits or other applicable laws. One copy of these accepted plans must be on the job and one copy to all contractors and consultants involved with the removal.

For future or subsequent work other than the removal of the tank and piping, you must submit a separate set of plans for review and approval. If you have any questions, please call the Hazardous Materials Division at least 48 hours prior to the time you require inspections.

Removal of Tank and Piping
 Sampling
 Exc. Impaction

Because of a penalty to contractors is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Susan L. Hugo

Please note changes made on page 2, 3, 4, 95

10/23/91

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

- Business Name PACIFIC GAS AND ELECTRIC COMPANY
 Business Owner SAME AS ABOVE
 - Site Address 4227 HOLUIS ST,
 City EMERYVILLE Zip 94608 Phone (706) 649-7335
 - Mailing Address 4525 HOLUIS STREET
 City EMERYVILLE Zip 94608 Phone (50)
 - Land Owner PACIFIC GAS AND ELECTRIC COMPANY
 Address 4525 HOLUIS ST Emeryville City, State CA Zip 94608
 - Generator name under which tank will be manifested _____
PACIFIC GAS AND ELECTRIC COMPANY
- EPA I.D. No. under which tank will be manifested CAD 932 400478



ENVIRONMENTAL

a division of Plant Reclamation
State Cont. Lic. # 518628

RICHARD E. CAMACHO

Phone: (415) 233-6558
FAX: (415) 237-6739

912 Harbour Way South
Richmond, California 94804

6. Contractor P.W. ENVIRONMENTAL
Address 912 HARRISON WAY SOUTH
City RICHMOND Phone (910) 297-6552
License Type GEN ENG "P" ID# 543722

7. Consultant STPMCO
Address LLADYS ROAD
City SAN MARTIN Phone (408) 689-2395

8. Contact Person for Investigation
Name RICHARD CANNICHO Title PROJECT MGR
Phone (910) 297-6552

9. Number of tanks being closed under this plan 1
Length of piping being removed under this plan 0
Total number of tanks at facility 1

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground tanks are hazardous waste and must be handled **
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name STPMCO EPA I.D. No. CAD063547956
Hauler License No. 0796 License Exp. Date 11/01/92
Address 12475 LLADYS ROAD
City SAN MARTIN State CA Zip 95046

b) Product/Residual Sludge/Rinsate Disposal Site

Name ERICKSON EPA I.D. No. CAD 089466392
Address 255 Park Blvd
City Richmond State CA Zip 94801

c) Tank and Piping Transporter

Name STAMCO EPA I.D. No. CAD003442996
Hauler License No. 0796 License Exp. Date NOV 92
Address 12475 LLAGERS ROAD
City San MARTIN State CA Zip 95046

d) Tank and Piping Disposal Site

Name ERICKSON EPA I.D. No. CAD009466392
Address 255 Pine Blvd.
City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Precision Analytical Lab - Richmond
Company Precision Analytical Lab.
Address 4196 Lakeside Dr.
City Richmond State CA Zip 94806 Phone (510) 222-3002

12. Laboratory

Name Precision Analytical Lab
Address 4196 Lakeside Dr.
City Richmond State CA Zip 94806
State Certification No. E750

13. Have tanks or pipes leaked in the past? Yes [] No [X]

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

TANK WILL BE INERTED WITH DRY ICE, A MINIMUM
OF 30 POUNDS OF SOLID CARBON DIOXIDE FOR EACH 100
GALLONS OF TANK VOLUME

* Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

| Tank | | Material to be sampled (tank contents, soil, ground-water, etc.) | Location and Depth of Samples |
|---------------|--|--|--|
| Capacity | Use History (see instructions) | | |
| 2,500 GALLONS | P.G. & E HAD NO KNOWLEDGE TANK EXISTED. TANK WAS INSTALLED BY PERSONS PROPERTY OWNER WITHOUT DOCUMENTING ITS EXISTENCE. P.G. & E TOOK POSSESSION OF THE PROPERTY IN 1955. TANK IS CURRENTLY EMPTY AND HAS NEVER BEEN USED BY P.G. & E. Abandoned since 1952 | SOIL BENEATH TANK or ground-water if present | 2' BELOW BOTTOM OF TANK OR 5' One sample collected from each end of the tank at the bottom, no deeper than 2 feet. Below the backfill/natural soil interface. |

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

| Excavated/Stockpiled Soil | |
|------------------------------------|--|
| Stockpiled Soil Volume (Estimated) | Sampling Plan |
| ~ 5 YDS | 1 COMPOSITE SAMPLE FROM FOUR LOCATIONS IN PILE |

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

| Contaminant Sought | EPA, DHS, or Other Sample Preparation Method Number | EPA, DHS, or Other Analysis Method Number | Method Detection Limit |
|-----------------------------|---|---|------------------------|
| TPH-G | GC FID (5030) | 5030 | 1.0 ppm (soil) |
| TPH-D | GC FID (3530) | 3530 | 1.0 ppm (soil) |
| TPH-S | | 3530 | |
| CEC | 5520 DGF | 5520 DGF | 50 ppm (soil) |
| BTX | 8020 or 8240 | 8220 or 8240 | 0.005 ppm (soil) |
| CC HC | 8010 or 8240 | 8010 or 8240 | |
| Metals - Cd, Cu, Pb, Zn, Ni | ICAP or AA | | |
| PCB | 8270 | | |
| PCP | | | |
| PNA | | | |
| Cruciate | | | |

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

Name of Insurer HANSON & HIGGINS OF OREGON

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

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Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) RICHARD CAMACHO / Robert F. Kelly

Signature [Handwritten Signature] / Robert F. Kelly

Date 10/17/91 10-22-91

Signature of Site Owner or Operator

Name (please type) Gerald Beittel

Signature [Handwritten Signature]

Date 10-17-91

18. Submit Worker Compensation Certificate copy

Name of Insurer Hawes & Rogers of Oregon

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

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Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) RICHARD CAMACIO

Signature [Handwritten Signature]

Date 10/17/91

Signature of Site Owner or Operator

Name (please type) Gerald Beitzel

Signature [Handwritten Signature]

Date 10-17-91

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.

Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.
5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Health Services, 916/324-1781.
6. CONTRACTOR
Prime contractor for the project.
10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
15. TANK HISTORY AND SAMPLING INFORMATION

Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

17. SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring - along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- l) Page for employees to sign indicating they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tanks and piping in addition to the ones being pulled.

20. DEPOSIT

A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Description of sampling methods;
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Tabulation of the volume and final destination of all non-manifested contaminated soil hauled offsite.

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
UNDERGROUND TANK LEAKS

| <u>HYDROCARBON LEAK</u> | <u>SOIL ANALYSIS</u> | <u>WATER ANALYSIS</u> |
|---|--|--|
| Unknown Fuel | TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260 | TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260 |
| Leaded Gas | TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA -----Optional----- TEL DHS-LUFT EDB DHS-AB1803 | TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA TEL DHS-LUFT EDB DHS-AB1803 |
| Unleaded Gas | TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260 | TPH G GCFID(5030) BTX&E 602, 624 or 8260 |
| Diesel, Jet Fuel and Kerosene | TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260 | TPH D GCFID(3510) BTX&E 602, 624 or 8260 |
| Fuel/Heating Oil | TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260 | TPH D GCFID(3510) BTX&E 602, 624 or 8260 |
| Chlorinated Solvents | CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260 | CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260 |
| Non-chlorinated Solvents | TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260 | TPH D GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260 |
| Waste and Used Oil or Unknown (All analyses must be completed and submitted) | TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240 CL HC 8010 or 8240 | TPH G GCFID(5030) TPH D GCFID(3510) O & G 5520 C & F BTX&E 602, 624 or 8260 CL HC 601 or 624 |
| | ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni METHOD 8270 FOR SOIL OR WATER TO DETECT: PCB* PCP* PNA CREOSOTE | PCB PCP PNA CREOSOTE |

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. **Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.**
9. **PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:**

| | <u>SOIL PPM</u> | <u>WATER PPB</u> |
|-------|-----------------|------------------|
| TPH G | 1.0 | 50.0 |
| TPH D | 1.0 | 50.0 |
| BTX&E | 0.005 | 0.5 |
| O & G | 50.0 | 5,000.0 |

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

| ROUTINE | MODIFIED PROTOCOL |
|----------------|-------------------|
| ≤ 10 ppm (42%) | ≤ 10 ppm (10%) |
| ≤ 5 ppm (19%) | ≤ 5 ppm (21%) |
| ≤ 1 ppm (35%) | ≤ 1 ppm (60%) |

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.
- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal

Tri-Regional Board Staff Recommendations
Preliminary UST Site Investigations

10 August 1990

from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
Acknowledgement of Refund Recipient for Site Account
DEPOSITOR FILLS OUT PER SITE
-- REQUIRED --

The depositor will use this form to acknowledge that the property owner or his or her designee will receive any refund due at the completion of all deposit/refund projects at the site listed below.

SITE NUMBER/ADDRESS:

REFUND RECIPIENT-PROPERTY OWNER

4227 Hollis St.

Site Number

P.G. & E.

Company Name

Same

Owner's Name

4525 Hollis St.

Street Address

Same

Owner's Address

Emeryville, CA. 94608

City

Zip Code

Same

Owner's City

State

Zip

I have read the description of the project Deposit/Refund Procedure, and have had an opportunity to ask questions about it. I understand that regardless of who deposits money into the site account, any deposit money remaining at the completion of all projects being conducted at this site will be refunded solely to the property owner or his or her designee.

Robert F. Kelly

Signature of Depositor

10-17-91

Date

Robert F. Kelly

Depositor Name

P.R. Environmental

Company Name

912 Harbour Way So.

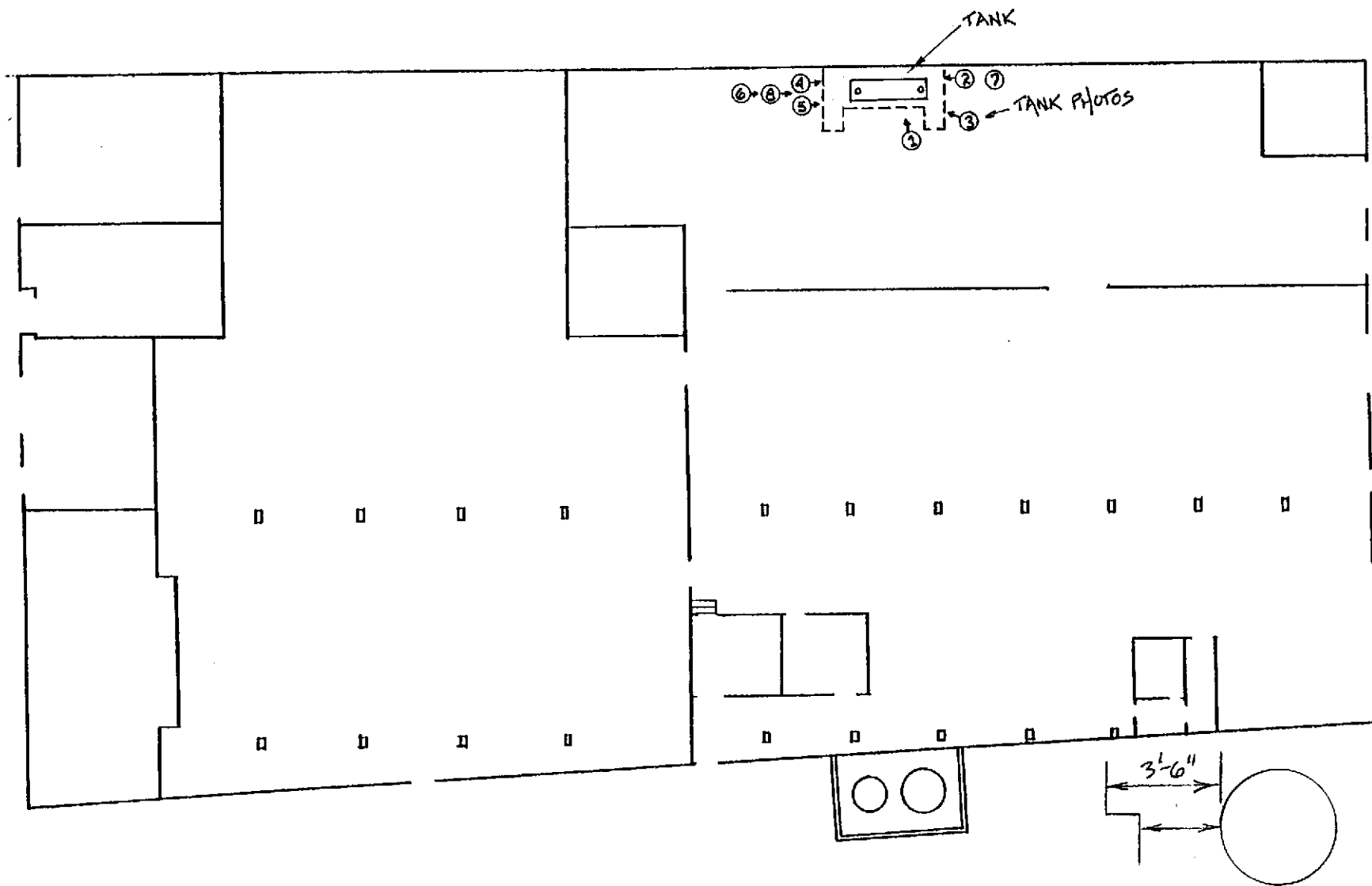
Street Address

Richmond, CA. 94804

City / Zip

RETURN FORM TO: Alameda County, Hazardous Materials Div.
30 Swan Way, Rm 200
Oakland, CA 94621-1439

HOLLIS STREET

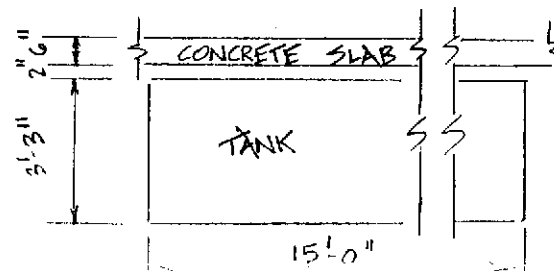


PARKING AREA



OCB BUILDING

SCALE: 1" = 30'



CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

March 28, 1991

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

ason & Higgins of Oregon, Inc.
 SW Fifth Avenue, Suite 2600
 land, OR 97204-3629
) 241-4800

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A** National Union Fire Insurance Company
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

SUB-CODE

at Reclamation
 Harbour Way S.
 amond, CA 94804

TERMS

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | ALL LIMITS IN THOUSANDS |
|--|---------------|----------------------------------|-----------------------------------|--|
| GENERAL LIABILITY | | | | GENERAL AGGREGATE \$ 2,000 |
| COMMERCIAL GENERAL LIABILITY | | | | PRODUCTS-COMP/OPS AGGREGATE \$ 2,000 |
| CLAIMS MADE <input checked="" type="checkbox"/> OCCUR. | GL 542-4430 | 10-1-90 | 10-1-91 | PERSONAL & ADVERTISING INJURY \$ 1,000 |
| OWNER'S & CONTRACTOR'S PROT. | | | | EACH OCCURRENCE \$ 1,000 |
| | | | | FIRE DAMAGE (Any one fire) \$ 50 |
| | | | | MEDICAL EXPENSE (Any one person) \$ 5 |
| VEHICLE LIABILITY | | | | COMBINED SINGLE LIMIT \$ 1,000 |
| ANY AUTO | | | | BODILY INJURY (Per person) \$ |
| ALL OWNED AUTOS | CA 542-4431 | 10-1-90 | 10-1-91 | BODILY INJURY (Per accident) \$ |
| SCHEDULED AUTOS | | | | PROPERTY DAMAGE \$ |
| HIRED AUTOS | | | | |
| NON-OWNED AUTOS | | | | |
| GARAGE LIABILITY | | | | |
| MCS-30 | | | | |
| UMBRELLA LIABILITY | | | | EACH OCCURRENCE \$ |
| OTHER THAN UMBRELLA FORM | | | | AGGREGATE \$ |
| WORKER'S COMPENSATION | | | | STATUTORY \$ |
| AND | | | | (EACH ACCIDENT) |
| EMPLOYERS' LIABILITY | | | | \$ (DISEASE-POLICY LIMIT) |
| | | | | \$ (DISEASE-EACH EMPLOYEE) |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE

LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

CORP. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
3/18/91

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

**CALIFORNIA CASUALTY
P.O. BOX 11
SAN MATEO, CA 94402**

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A** CALIFORNIA CASUALTY INSURANCE CO.
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

**PLANT RECLAMATION
912 Harbor Way South
Richmond, CA 94804**

COVERAGE

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|---|-----------------|----------------------------------|-----------------------------------|------------------------------------|
| GENERAL LIABILITY | | | | |
| COMMERCIAL GENERAL LIABILITY | | | | GENERAL AGGREGATE \$ |
| CLAIMS MADE OCCUR | | | | PRODUCTS-COMP/OP AGG. \$ |
| OWNER'S & CONTRACTOR'S PROT. | | | | PERSONAL & ADV. INJURY \$ |
| | | | | EACH OCCURRENCE \$ |
| | | | | FIRE DAMAGE (Any one fire) \$ |
| | | | | MED. EXPENSE (Any one person) \$ |
| AUTOMOBILE LIABILITY | | | | |
| ANY AUTO | | | | COMBINED SINGLE LIMIT \$ |
| ALL OWNED AUTOS | | | | BODILY INJURY (Per person) \$ |
| SCHEDULED AUTOS | | | | BODILY INJURY (Per accident) \$ |
| HIRED AUTOS | | | | PROPERTY DAMAGE \$ |
| NON-OWNED AUTOS | | | | |
| GARAGE LIABILITY | | | | |
| EXCESS LIABILITY | | | | |
| UMBRELLA FORM | | | | EACH OCCURRENCE \$ |
| OTHER THAN UMBRELLA FORM | | | | AGGREGATE \$ |
| WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY | 1801 8010156-01 | 1/1/91 | 1/1/92 | STATUTORY LIMITS |
| | | | | EACH ACCIDENT \$ 1,000,000 |
| | | | | DISEASE-POLICY LIMIT \$ 1,000,000 |
| | | | | DISEASE-EACH EMPLOYEE \$ 1,000,000 |

OTHER

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

ALL CALIFORNIA OPERATIONS

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE ADDRESS SHOWN TO MAKE SUCH NOTICE SHALL IMPROVE NO LIABILITY OF ANY KIND UPON THE COMPANY OR ITS REPRESENTATIVES.