

FILE OR

ENVELOPE

PER NO.

Removal No. of

PLAN REVIEW

By Date

\$ 375

Rec'd.

10/17/85

No.

Plans Rec'd.

Plans Approved

Layout Made

Rejected

Applicant Notified

Plans Returned

Permit Issued

CONSTRUCTION PROGRESS ACCEPTANCE

Pre-Plaster/drywall

Pre-Final

Final

By Date

Pre-Concrete/Gunite

Pre-Plas

Final

Septic Tank

Absorption Field

Absorption Bed

House Sewer

Septic Tank

Absorption Field

Absorption Bed

FINAL

OTHER

Pre-Covering

U.G. TANKS

LDP 3701

OWNER

Laboral Assoc

Address 3501 South Blvd Ave

Orlando, Fla 32809 Phone

Contractor

General Eng'g

Address 1540 Ord Ave

Orlando, Fla 32809 Phone 408-292-1201

OTHER (Specify)

Address

Phone

CONTACT FOR INVESTIGATION

XR

CLOSED

REMARKS

Date By

Vicinity Map

U577085
\$ 375
10/17/90

LOP - CHANGE RECORD REQUEST FORM

printed:
11/05/98

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

Insp: *CL*

AGENCY # : 10000	SOURCE OF FUNDS: F	SUBSTANCE: 12035
StID : 3701	LOC:	
SITE NAME: Cahon Associates, Inc.		DATE REPORTED : 11/19/90
ADDRESS : 3501 San Pablo Ave		DATE CONFIRMED: 11/19/90
CITY/ZIP : Oakland 94608		MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: S	CONTRACT STATUS: 4	PRIOR CODE:1C3	EMERGENCY RESP:
RP SEARCH: S			DATE COMPLETED: 07/09/92
PRELIMINARY ASMNT: c	DATE UNDERWAY: 11/19/90		DATE COMPLETED: 11/19/98
REM INVESTIGATION:	DATE UNDERWAY:		DATE COMPLETED:
REMEDIAL ACTION: c	DATE UNDERWAY:		DATE COMPLETED:
POST REMED ACT MON:c	DATE UNDERWAY:		DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1	DATE ENFORCEMENT ACTION TAKEN: 07/09/92
LUFT FIELD MANUAL CONSID:	
CASE CLOSED: Y	DATE CASE CLOSED: 10/28/98
DATE EXCAVATION STARTED : 11/28/90	REMEDIAL ACTIONS TAKEN: ET

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Greg Hyson
 COMPANY NAME: Oakland Community Housing Inc.
 ADDRESS: 405 14th St., Suite 400
 CITY/STATE: Oakland, California 94612

RP#2-CONTACT NAME: C/o E. A. H.
 COMPANY NAME: N/a
 ADDRESS: 2169 E Francisco Bl Ste B
 CITY/STATE: San Rafael C A 94901

INSPECTOR VERIFICATION:

NAME _____	SIGNATURE _____	DATE _____
------------	-----------------	------------

DATA ENTRY INPUT:

Name/Address Changes Only			Case Progress Changes	
ANNPMS _____	LOP _____	DATE _____	LOP _____	DATE _____

One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105
(415) 957-9557



30 June 1991
Project 1747

Mr. Dennis Byrne
Alameda County Health Care Services Department
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Report on Removal of One Underground Bunker Fuel Tank
3501 San Pablo Avenue
Oakland, California

Dear Mr. Byrne:

At the request of Mr. Greg Hyson of Oakland Community Housing, Inc., we are enclosing a copy of the subject report. Please contact the undersigned if you have any questions.

Sincerely,

GEOMATRIX CONSULTANTS, INC.

A handwritten signature in cursive script, appearing to read 'Pamela Han'.

Pam Han
Staff Toxicologist

A handwritten signature in cursive script, appearing to read 'Michael T. Rafferty'.

Michael T. Rafferty
Project Manager

PH/MTR:kj
CONTR1747OAK.LTR

cc: Greg Hyson

91 AUG - 1 11:55

Chore Log # 3701

2/28/97

Per Andrew Clark-Close w/ City of Oakland this pit is not theirs. Oakland Community Housing is a private non-profit org. Ck w/ them.

2/28/97

Left msg w/ ~~msg~~ Austin Penny (Exec Dir.) to call w/ any info on this site. Also, ck about 2nd RP.

3/11/97

Austin Penny called - he is looking into what happened w/ this case. He has a call in to Geomatrix (Tom Draf). Will get back to me w/in next few days.

3/13/97

Tom Draf left a msg. Geomatrix had not completed a groundwater investigation. He recommends closure regardless. Left a msg on his VM that we would proceed w/ closure & see what happens.

DTW

S# 4057

Thrifty Oil 3400 San Pablo Ave

94608

S# 381
Shell Oil Co 3420 San Pablo

10' → 20'

Gen S. Hugo DTW @ Shell Station varies
between wells (10 to 20') She thinks
H₂O is perched in some areas.

- 1) Review the Calson Assoc. for Closure.
- 2) Contact City of Oakland &/or Sonatrix to see
if the new was ever installed

2/27/97 Kept msg w/ Andrew Clark - Clow (238-6361) to
give me a call re: site status.

INVOICE FOR OVERSIGHT COSTS FROM 01/01/92 THROUGH 12/31/92
 LOCAL AGENCY: COUNTY OF ALAMEDA

SITE # 3701
 GREG HYSON
 (1) OAKLAND COMMUNITY HOUSING INC.
 405-14TH STREET STE. 400
 OAKLAND, CA 94612

SITE LOCATION
 CAHON ASSOCIATES, INC.
 3501 SAN PABLO AVE
 OAKLAND, CA 94608

*(sic) 17H
 2169 E. Francisco Blvd, Ste B
 San Rafael, CA 94901*

*EAH
 2169 E. Francisco Blvd.
 Suite B
 San Rafael 94901*

TOTAL PREVIOUSLY BILLED *Attn: Bridget Carter* \$ 0.00
 PAYMENT(S) RECEIVED AS OF *1/1* \$ 0.00
 **NEW CHARGES - Billing Period: 01/01/92 through 12/31/92 \$ 51.59
 FUND: F TOTAL AMOUNT DUE \$ 51.59

PLEASE WRITE THE SITE NUMBER ON YOUR CHECK OR MONEY ORDER. Payment is due in 30 days. Return one copy of this invoice with a check or money order payable to:

STATE WATER RESOURCES CONTROL BOARD
 UST CLEANUP PROGRAM
 P.O. BOX 944212
 SACRAMENTO, CA 94244-2120

State Health and Safety Code Sections 25297.1 and 25360 and 1 of costs associated with the local oversight program. When y letter explaining that the State Water Resources Control Boor

This bill includes site specific and program management charg are sampling for soil and ground water contamination, site in activity codes is on the attached sheet. Program management i may include: space rental, office services and supplies, purc support personnel (i.e., clerical staff, accountant, program than 50 percent of site specific charges. The exact rate is shown on the last page of your bill.

Post-It™ brand fax transmittal memo 7671		# of pages	1
To	JUDAN HUGO	From	LORI CASAS
Co	Alameda Co.	Co.	WCP
Dept.	Env. Health	Phone	916-227-4325
Fax #	510-519-4757	Fax #	916-227-4349

If you received an invoice for a previous billing period, those charges are shown as "Total Previously Billed". Any payments you made on the previous billing are shown as "Payment Received". The total of any unpaid previous balance plus new charges is shown as "Total Amount Due".

** See itemized list of new charges on attached sheet(s).

FOR INFORMATION CALL: LORI CASAS (916) 227-4325

per tele call on 5/14/93 from Alice Guidry @ 510-763-7676

*Susan - please update O.R.
 Lori*

P 13 815 077



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

(SH) #3701

Sent to	
Greg Hyson	
Street and No.	
405 14th St., Suite 400	
P.O., State and ZIP Code	
Oakland, CA 94612	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program

RAFAT A. SHAHID, Assistant Agency Director

Certified Mail # P 113 815 077

07/09/92
STID# 3701

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Notice of Requirement to Reimburse

Greg Hyson
Oakland Community Housing Inc.
405 14th St., Suite 400
Oakland, California 94612

Responsible Party
Property Owner

Cahon Associates, Inc.
3501 San Pablo Ave.
Oakland, CA 94608

SITE

Date First Reported 11/19/90
Substance: Waste Oil
Petroleum: (X)Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. **YOU ARE HEREBY NOTIFIED** that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

Please contact Susan HUGO, Hazardous Materials Specialist at this office if you have any questions concerning this matter.

Edgar B. Howell, III, Chief
Contract Project Director

cc: Sandra Malos, SWRCB

SWRCB Use:

Add: X Reason: New Case

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: (SH) #3701 Oakland Community Housing Inc. Attn: Greg Hyson 405 14th St., Suite 400 Oakland, CA 94612	4. Article Number P 113 815 077 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>Greg Hyson</i>	
7. Date of Delivery <i>7-13-92 RBD</i>	

LOP - RECORD CHANGE REQUEST FORM

printed:
02/01/93

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

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12035
 StID : 3701
 SITE NAME: Cahon Associates, Inc. DATE REPORTED : 11/19/90
 ADDRESS : 3501 -0 San Pablo Ave. DATE CONFIRMED: 11/19/90
 CITY/ZIP : Oakland 94608 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S	CONTRACT STATUS: 2	EMERGENCY RESP: -0-
RP SEARCH: S		DATE COMPLETED: 07/09/92
PRELIMINARY ASMNT: -	DATE UNDERWAY: -0-	DATE COMPLETED: -0-
REM INVESTIGATION: -	DATE UNDERWAY: -0-	DATE COMPLETED: -0-
REMEDIAL ACTION: -	DATE UNDERWAY: -0-	DATE COMPLETED: -0-
POST REMED ACT MON:-	DATE UNDERWAY: -0-	DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 07/09/92
 LUFT FIELD MANUAL CONSID: -0-
 CASE CLOSED: - DATE CASE CLOSED: -0-
 DATE EXCAVATION STARTED : -0- REMEDIAL ACTIONS TAKEN: -0-

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Greg Hyson
 COMPANY NAME: Oakland Community Housing Inc.
 ADDRESS: 405 14th St., Suite 400
 CITY/STATE: Oakland, California 94612

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANPNPGMS _____ LOP _____ DATE _____

LOP _____ DATE _____

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 Division Inspection Form

Site ID# _____ Site Name _____ Today's Date 11/19/98
 Site Address 3501 San Pablo Ave EPA ID# _____
 City Oakland Zip 94608 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? **Y N**
 Hazardous Waste generated per month? _____

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

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- I.A GENERATOR (Title 22)**
- ___ 1. Waste ID * 66471
 - ___ 2. EPA ID 66472
 - ___ 3. > 90 days 66508
 - ___ 4. Label dates 66508
 - ___ 5. Biennial 66493
-
- Manifest**
- ___ 6. Records 66492
 - ___ 7. Correct 66484
 - ___ 8. Copy sent 66492
 - ___ 9. Exception 66484
 - ___ 10. Copies Rec'd 66492
-
- Misc.**
- ___ 11. Treatment 66371
 - ___ 12. On-site Disp. (H.S.&C.) 26189.5
 - ___ 13. Ex Haz. Waste 66570
-
- Prevention**
- ___ 14. Communications 67121
 - ___ 15. Aisle Space 67124
 - ___ 16. Local Authority 67126
 - ___ 17. Maintenance 67120
 - ___ 18. Training 67105
-
- Cont'n. Agency**
- ___ 19. Prepared 67140
 - ___ 20. Name List 67141
 - ___ 21. Copies 67141
 - ___ 22. Emg. Coord. Trng. 67144
-
- Containers, Tanks**
- ___ 23. Condition 67241
 - ___ 24. Compatibility 67242
 - ___ 25. Maintenance 67243
 - ___ 26. Inspection 67244
 - ___ 27. Buffer Zone 67246
 - ___ 28. Tank Inspection 67259
 - ___ 29. Containment 67245
 - ___ 30. Safe Storage 67261
 - ___ 31. Freeboard 67257
-
- I.B TRANSPORTER (Title 22)**
- ___ 32. Applic./Insurance 66428
 - ___ 33. Comp. Cert./CHP Insp. 66448
 - ___ 34. Containers 66465
-
- Manifest**
- ___ 35. Vehicles 66565
 - ___ 36. EPA ID #s 66531
 - ___ 37. Correct 66541
 - ___ 38. HW Delivery 66543
 - ___ 39. Records 66544
-
- Cont'n's**
- ___ 40. Name/ Covers 66545
 - ___ 41. Recyclables 66600

Comments:
 One tank removed, has Ker Fuel
 obvious holes in tank
 soil samples had been collected
 prior to removal showing TPH of
 up to 900 ppm.
 Borings at 14' were N D
 One soil sample was collected at
 a depth of ~ 10' from the
 street sidewalk.
 Analysis, TOG, TPH-P, BTEX
 Excavation to be backfilled
 with lean fill as used for
 an underground transformer.
 Mike Raftery

Rev 6/88

Contact: _____
 Title: _____
 Signature: _____

Inspector: _____
 Signature: [Signature]

* Bunker Oil

Property owner: Oakland Community Housing Inc.
405 14th St #700 Oakland
Suite 400 94612
Attn: Greg Hyson

DATE: 2/26/92
TO : Local Oversight Program
FROM: Ron OWCas
SUBJ: Transfer of Eligible Oversight Case

Site name: Cahon Associates, Inc.

Address: 3501 San Pablo Ave. city Oakland zip 94608

Closure plan attached? N DepRef remaining \$ 214.50

DepRef Project # 2085 STID #(if any) 3701 ✓ 7/1/92

Number of Tanks: 1 removed? N Date of removal 11/19/90

Leak Report filed? Y N Date of Discovery ? 11/19/90

Samples received? N Contamination: Soil + water

Petroleum N Types: Avgas Jet leaded unleaded Diesel
bunker fuel oil waste oil kerosene solvents

Monitoring wells on site Monitoring schedule? Y N

Briefly describe the following:

Preliminary Assessment -

Remedial Action -

Post Remedial Action Monitoring Work plan indicates 1 MW to be installed

Enforcement Action review work plan + respond

Comments: No ULR form in file

No manifest for the tank
TOG- 960 ppm



SITE HEALTH & SAFETY PLAN

1.0 PURPOSE

This site health and safety plan establishes procedures to protect Geomatrix employees and the public from the potential hazards at the site. The observance of procedures in this plan are mandatory for all Geomatrix employees at the site.

This plan shall be used only after the plan has been reviewed by the Project Manager and Project Health and Safety Officer. Prior to entering the site, Geomatrix personnel shall read this plan and sign the attached form verifying that they read the plan and understand the requirements of the plan.

2.0 ADMINISTRATIVE INFORMATION

Project Name: 3501 San Pablo Avneue

Project Start Date: 10 October 1990 Project Number:

Project Address: 3501 San Pablo Avenue, Oakland, California

Client: Oakland Community Housing

Client Contact: Debra Drickerson

Telephone No.:

Project Manager: M.T. Rafferty

Telephone No.: (415) 957-9557 (work) (415) 526-1299 (home)

Project Health & Safety Officer:

Telephone No.:

Site Safety Officer: M.T. Rafferty

Telephone No.: (415) 957-9557 (work) (415) 526-1299 (home)



SITE HEALTH & SAFETY PLAN (cont.)

3.0 PROJECT DESCRIPTION

Site physical description: Parking lot

Type of investigation: Sampling during tank removal

3.1 Areas and Media Affected by Potential Hazard(s)

Tank still contains a Bunker C fuel oil residue. Soil may or may not have petroleum contamination. Excavation hazards.

3.2 Hazardous Substances Known or Suspected at Site

CHEMICAL	MEDIA	CONCENTRATION	PRIMARY HAZARD
Bunker C Oil	Tank Contents	~ 1000 gallons	Skin contact
Bunker C Oil	Soil	unknown	Skin contact

3.3 Potential Physical Hazards at Site

SAFETY HAZARDS: Open excavation and heavy equipment increases trip and falling hazards.

UNDERGROUND UTILITY HAZARDS:

LOCATION OF UNDERGROUND UTILITIES: Utilities have been checked and their locations, if any, marked.

Other electrical hazards:



SITE HEALTH & SAFETY PLAN (cont.)

OVERHEAD POWER LINES: No overhead; however, for any near the work area. The following are minimum clearances for overhead high voltage lines.

<u>Nominal Voltage (phase to phase)</u>	<u>Minimum Required Clearance (feet)</u>
750 - 50,000	10
50,000 - 75,000	11
75,000 - 125,000	13
125,000 - 175,000	15
250,000 - 350,000	21
370,000 - 550,000	27
550,000 - 1,000,000	42

Whenever possible, avoid working under overhead high voltage lines.

OTHER: N/A

NOISE HAZARDS: Heavy equipment noise during excavation and tank removal will likely result in excessive noise exposure.

HEAT STRESS HAZARDS: In warm weather, around heavy equipment, heat exposure may occur. Be aware of heat stress symptoms and rest as needed and maintain fluid levels to avoid heat stress.

SUNBURN HAZARDS: In out of doors situation use sun screen to avoid excessive sun exposure.

TRENCH/EXCAVATION HAZARDS: The tank excavation will be limited to four feet in depth, and the tank will be floated out. Stand away from the trench edges to avoid falling in. Entry and egress plan not required.

CONFINED SPACE: N/A

3.3 Scope of Field Activities

Excavation and tank removal observation
Soil sampling and analysis
Possible water sampling



SITE HEALTH & SAFETY PLAN (cont.)

4.0 PRIMARY RESPONSIBILITIES

4.1 Project Manager

The Project Manager (PM) shall:

1. Direct all project activities at the site.
2. Take responsibility for preparation of the site the health and safety plan.
3. Ensure that all project personnel are aware of the health and safety requirements for the project.
4. Make resources available to provide a safe working environment.
5. Make the Project Health and Safety Officer aware of all pertinent project developments and plans.

4.2 Project Health and Safety Officer

The Project Health and Safety Officer(PHSO) shall:

1. Provide site specific health and safety training to project personnel.
2. Assist PM, as needed, in preparation of the site health and safety plan, and if necessary, modify the plan based on site conditions or incidences.
3. Oversee exposure monitoring to evaluate potential site health hazards.

4.3 Site Safety Officer

The Site Safety Officer (SSO) shall:

1. Ensure that appropriate personal protective equipment is available for site personnel and enforce proper utilization of the equipment by site personnel and visitors.
2. Observe subcontractor's health and safety procedures. If the subcontractor's personnel do not have appropriate protective equipment to perform work without risking exposure, the SSO shall consult with the PM or PHSO before proceeding with the work.
3. Maintain and calibrate monitoring equipment as frequently as necessary.
4. Report accidents, incidents or inadequate work practices observed involving Geomatrix personnel or subcontractors to either the PM or the PHSO.

SITE HEALTH & SAFETY PLAN (cont.)

4.4 Project Personnel

Project site personnel shall:

1. Take all reasonable precautions to prevent injury to themselves and to their co-workers.
2. Perform only those tasks that they can do safely, and immediately report accidents or unsafe conditions to the SSO.
3. Follow the procedures in the site health and safety plan, and report deviation from the procedure in the plan by Geomatrix employees or subcontractor personnel to the SSO.
4. Notify the PM or PHSO of any medical conditions that may affect their ability to work (allergies, respiratory difficulties, etc.)



SITE HEALTH & SAFETY PLAN (cont.)

5.0 SITE CONTROL

The purpose of site control is to minimize the potential exposure to site hazards and to prevent vandalism at the site.

5.1 Site Security

Only authorized personnel shall be permitted access to the site work areas. If possible, work areas should be cordoned with barriers to limit unauthorized access.

5.2 Communications

A field representative shall contact the project manager or office at least once a day while in the field.

LOCATION OF CLOSEST TELEPHONE: Portable telephone maintained in field vehicle.



SITE HEALTH & SAFETY PLAN (cont.)

6.0 AIR MONITORING

The following air monitoring equipment will be used.

- Photoionization Detector
- Draeger Pump and Tubes (specify tubes)
- Combustible Gas Meter
- Oxygen Meter
- Other (specify)

Frequency of sampling: (Specify limits)

- Continuous
- Intermittent during excavation
- Screening



SITE HEALTH & SAFETY PLAN (cont.)

7.0 PERSONAL PROTECTIVE EQUIPMENT

The following personal protective equipment will be used as specified below.

- Chemical-resistant boots
- Steel-toed boots
- Hard hat
- Ear plugs
- Gloves (specify)
 - Latex inner liner, nitrile outer glove
 - Latex inner liner, rubber outer glove
 - Nitrile outer glove only
 - Rubber outer glove only
- Disposable suit (specify)
 - Tyvek
 - Saranek
- Respirator
 - Disposable dust mask
 - 1/2-face available
 - full-face
- Cartridges
 - Organic vapor (black)
 - Dusts, mists, fumes (purple)
 - Combo organic vapor and dust (purple/black)
 - Other (specify)
- Safety glasses/goggles
- Other (specify)

The following protective equipment/clothing shall be worn during the following activities.

ACTIVITY	EQUIPMENT/CLOTHING
Excavation observation	Boots, hard hats, golves, respirator onsite (use if vapors are detected)
Soil sampling	Boots, hard hats, golves, respirator onsite (use if vapors are detected)



SITE HEALTH & SAFETY PLAN (cont.)

Respiration Usage

CHEMICAL	PEL/TLV	ACTION LEVEL	STOP WORK
Bunker Oil	N/A	see note below	see note below

No explosion hazard is expected.

NOTE: Bunker oil is a heavy fuel oil and relatively non-volatile. If air monitoring indicates volatile components are present in the excavation area above 5 ppm, wear respirator and contact the Project Manager immediately.



SITE HEALTH & SAFETY PLAN (cont.)

8.0 EMERGENCIES

In the event of an accident or emergency condition, the procedure specified below shall be followed immediately.

1. Site safety officer shall take charge of situation.
2. Remove injured or exposed person(s) from immediate danger if possible.
3. If serious injury or life-threatening condition exists call
911 - Paramedics, fire department, police
Hospital emergency room
Clearly describe location, injury and conditions to dispatcher/hospital. Designate a person to direct emergency equipment to the injured person(s).
4. Provide first aid, if necessary.
5. Call the project manager or health and safety officer.
6. Evacuate other on-site personnel to a safe place until it is safe for work to resume.
7. Immediately implement steps to prevent reoccurrence of the accident.
8. The hospital location map is attached.

Hospital: Kaiser Hospital
Address: 280 West McArthur Boulevard
Oakland, California 94611
Telephone: (415) 596-1000
Poison Control Telephone: 796-2845



SITE HEALTH & SAFETY PLAN (cont.)

9.0 APPROVALS

M. W. K...
Project Manager

10/17/98
Date

Project Health & Safety Officer

Date

Site Safety Officer

Date



SITE HEALTH & SAFETY PLAN (cont.)

10.0 ACKNOWLEDGEMENT

ACKNOWLEDGEMENT OF RECEIPT OF
SITE HEALTH AND SAFETY PLAN

Project Name 3501 San Pablo Avenue Project Number 1747

Your signature below indicated that you have received a copy of the health and safety plan for the above identified project, have read it and understand the conditions under which it is to be used.

NAME

DATE

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

ACCEPTED
10/17/90
6974
DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 7TH STREET
OAKLAND, CALIF. 94612
TELEPHONE: (415) 271-4320

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name CaHow Associates, Inc.
Business Owner CaHow Inc
2. Site Address 3501 San Pablo Avenue
City Oakland CA zip 94612 ⁰⁸⁷⁸ Phone 763-7676
3. Mailing Address 405 14th Street, Suite 400.
City Oakland CA zip 94612 Phone 763-7676
4. Land Owner Oakland Community Housing, Inc
Address 405 14th St. Suite 400 city, state OK, CA zip 94612
5. EPA I.D. No. CAC 0000 33 639
6. Contractor General Engineering + Const.
Address 1540 Industrial Ave.
City SAN Jose CA, zip 95112 Phone 408 292-1201
License Type A ID# 324079
7. Consultant Geomatrix
Address Spence St. Tower Suite 717 94105
City SAN FRANCISCO Phone 415 957-9557

8. Contact Person for Investigation

Name Tom Graf or Mike Rafferty Title Engineer
Phone 415 957 9557

9. Total No. of Tanks at facility 1

10. Have permit applications for all tanks been submitted to this office?
Yes [] No []

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Transporter

Name HLH Ship Service EPA I.D. No. CA004771168
Address 220 China Basin
City SAN FRANCISCO State CA Zip _____

b) Rinsate Transporter

Name NONE EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

c) Tank Transporter

Name SAME AS A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

d) Tank Disposal Site

Name SAME AS A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

e) Contaminated Soil Transporter

Name SAME AS A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

12. Sample Collector

Name Geomatrix Consultants INC.
 Company _____
 Address ONE Market Plaza Spear Tower SF.
 City SAN FRANCISCO State CA zip 94 Phone 415-957-9557

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
550-1000	Bunker Oil	yes	From the TANK

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

If yes, describe. UNKNOWN

15. NFPA methods used for rendering tank inert? Yes [X] No []

If yes, describe. Bunker oil is #75 hel.

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name CHROMALAB, INC.
 Address 2239 Omega Road #1
 City SAN RAMON State CA zip 94583
 State Certification No. 238

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
Oil Diesel		503 TPH Diesel TPH GASOLINE BTX

18. Submit Site Safety Plan

19. Workman's Compensation: Yes No

Copy of Certificate enclosed? Yes No

Name of Insurer Continental Casualty CNA-SF

20. Plot Plan submitted? Yes No

21. Deposit enclosed? Yes No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

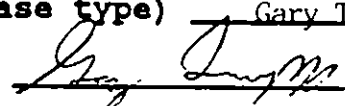
I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin 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.

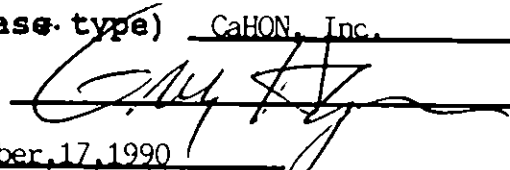
I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. 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.

Signature of Contractor

Name (please type) Gary Trapp
Signature 
Date 10-17-90

Signature of Site Owner or Operator

Name (please type) CaHON, Inc.
Signature  Greg Hlyson, Assistant Secretary
Date October 17, 1990

2

35 st

3501 SAN PABLO AVE

Chestnut AVE

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

10/17/90

PRODUCER

Winn & Co. Insurance Brokers
 P.O. Box 220
 Hollister, CA. 95024-0220

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

CODE * SUB-CODE

- COMPANY LETTER **A** Transcontinental Ins/CNA-S.F.
- COMPANY LETTER **B** Transportation Ins/CNA-S.F.
- COMPANY LETTER **C** Continental Casualty/CNA-S.F.
- COMPANY LETTER **D**
- COMPANY LETTER **E**

INSURED

Trumpp Brothers
 General Engineering Contractor
 1540 Industrial Avenue
 San Jose, CA. 95112

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)	ALL LIMITS IN THOUSANDS
A	GENERAL LIABILITY	504717639	7/01/90	7/01/91	GENERAL AGGREGATE \$ 2,000
X	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OPS AGGREGATE \$ 1,000
	CLAIMS MADE X OCCUR				PERSONAL & ADVERTISING INJURY \$ 1,000
X	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$ 1,000
					FIRE DAMAGE (Any one fire) \$ 50
					MEDICAL EXPENSE (Any one person) \$ 5
					COMBINED SINGLE LIMIT \$ 1000
					BODILY INJURY (Per person) \$
					BODILY INJURY (Per accident) \$
					PROPERTY DAMAGE \$
					EACH OCCURRENCE \$
					AGGREGATE \$
B	AUTOMOBILE LIABILITY	904717640	7/01/90	7/01/91	
X	ANY AUTO				
	ALL OWNED AUTOS				
	SCHEDULED AUTOS				
X	HIRED AUTOS				
X	NON-OWNED AUTOS				
	GARAGE LIABILITY				
	EXCESS LIABILITY				
	OTHER THAN UMBRELLA FORM				
C	WORKER'S COMPENSATION	704717641	7/01/90	7/01/91	STATUTORY \$ 1,000 (EACH ACCIDENT)
	AND				\$ 1,000 (DISEASE-POLICY LIMIT)
	EMPLOYERS' LIABILITY				\$ 1,000 (DISEASE-EACH EMPLOYEE)
					Rented, Borrowed or Leased-\$125,000
					Ded: \$1,000
A	OTHER	504717639	7/01/90	7/01/91	
	Contractors Equipment				

*Limits at Policy Inception

*California Employees Only

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

Alameda County Health Care Service
 Department of Environmental Health
 Hazardous Materials Division
 80 Swan Way, Room 200
 Oakland, Ca. 94621

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

One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105
(415) 957 9557



30 July 1991
Project 1747

Mr. Greg Hyson
Executive Director
Oakland Community Housing, Inc.
405 - 14th Street, Suite 400
Oakland, California 94612

Austin Penny

763-7676

763-7676

Subject: Report on Removal of One Underground Bunker Fuel Tank
3501 San Pablo Avenue
Oakland, California

Dear Mr. Hyson:

Enclosed is the report that details activities performed for the California Hotel site: tank removal and disposal, soil sampling, and laboratory analysis. The report concludes that the Alameda County Health Care Services Department (ACHCSD) requires installation of a well to characterize groundwater and quarterly monitoring for one year.

As you requested, we will forward copies of this report to the City of Oakland Fire Department, the Alameda County Health Department, and the Regional Water Quality Control Board.

Please call either of the undersigned if you have any questions.

Sincerely,

GEOMATRIX CONSULTANTS, INC.

A handwritten signature in cursive script, appearing to read 'Pamela Han'.

Pamela Han
Staff Toxicologist

A handwritten signature in cursive script, appearing to read 'Michael Rafferty'.

Michael Rafferty, P.E.
Project Manager

PH/MR/kj
CONTR1747OAKH.LTR

Enclosure



UNDERGROUND TANK REMOVAL

**3501 San Pablo Avenue
Oakland, California**

Prepared for

**Oakland Community Housing, Inc.
405 - 14th Street, Suite 400
Oakland, California**

30 July 1991

Geomatrix Consultants

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2.4 Excavation and Backfilling	3
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UNDERGROUND TANK REMOVAL

3501 San Pablo Avenue
Oakland, California

1.0 INTRODUCTION

This report documents the removal of the 1500-gallon bunker fuel tank on 19 November 1990, and associated activities performed at the 3501 San Pablo Avenue facility in Oakland, California. The site location is shown on Figure 1. Tank removal and disposal procedures, soil sampling procedures, laboratory analyses, and conclusions regarding soil contamination and groundwater monitoring are presented. The tank was removed under permits from the City of Oakland and the Alameda County Health Care Services Department.

2.0 TANK REMOVAL ACTIVITIES

Tank removal, soil excavation, and backfilling were performed by Trumpp Brothers, Inc., of San Jose, California, on 19 November 1990. A Geomatrix engineer was on site to observe tank removal and to perform soil sampling. Representatives of both the Oakland Fire Department (Ms. Christine Meyers) and the ACHCSD (Mr. Dennis Bryne) were on site during tank removal and sampling activities.

2.1 TANK STABILIZATION AND DISPOSAL OF TANK CONTENTS

The tank was rendered inert by removing the fluid from it (approximately 1500 gallons) and inserting dry ice to remove organic vapors and oxygen from the tank. Fluids pumped from the tanks were hauled by a licensed hazardous waste transporter, H&H Ship Services, to its licensed receiving facility in San Francisco.

2.2 TANK EXCAVATION AND FIELD OBSERVATIONS

The former tank location and the excavation boundaries are shown on Figures 2 and 3. Concrete pavement covered the underground storage tank area. The top of the tank was approximately 4.5 feet below the ground surface. The diameter of the tank was 5 feet; its length was 14 feet. The bottom of the tank was approximately 9.5 feet below the ground surface.

After the tank was emptied, it was examined for evidence of leakage or holes; none were observed. Visual and olfactory observations revealed petroleum hydrocarbons 1 foot below the top of the tank extending 3 to 4 feet down in native soils adjacent to the tank excavation.

A licensed hazardous waste transportation company, H&H Ship Services, transported the tank under hazardous waste manifest to its receiving facility in San Francisco.

2.3 SOIL SAMPLING PROCEDURES

Before the tank was removed, Geomatrix and Trumpp Brothers personnel collected two soil samples from the north and south ends of the tank, at a depth of 11 feet. A hand auger and a manually operated drive sampler were used to collect these samples. Based on analysis on these samples, four additional soil samples were collected. This second set of samples was collected at the north end of the tank at depths of 14.5 and 16.5 feet and at the south end at 14.5 and 16 feet. These samples were taken from the backhoe bucket.

One additional soil sample was collected at a location specified by the ACHCSD representative after the tank was removed. This sample was collected from the backhoe bucket from native sediments adjacent to the tank. Sampling locations are shown on Figure 3.

The drive sampler consisted of a drive shoe that enclosed a clean brass liner 2 inches in diameter and 4 inches in length. The drive shoe was advanced, then retracted, using a slide hammer. After sample collection, the open ends of the liner were covered with aluminum foil and plastic end caps, which were sealed with tape. Samples were then labeled and placed in an ice chest maintained at 4°C until delivered under Geomatrix chain-of-custody protocols to the analytical laboratory. Copies of the chain-of-custody records are included in Appendix A.

2.4 EXCAVATION AND BACKFILLING

The excavation was backfilled, compacted with tank backfill and imported sand, and resurfaced with aggregate-base material and concrete to match existing grade. This work was performed by Trumpp Brothers.

3.0 CHEMICAL ANALYSES AND RESULTS

The soil samples were sent to Chromolab, Inc., a hazardous waste laboratory certified by the California Department of Health Services. The samples were analyzed for total petroleum hydrocarbons (TPH) using EPA Method 8015 to detect diesel (TPH-D), gasoline (TPH-G), and total oil and grease (TOG) and motor oil (MO). Samples were also analyzed for the purgeable aromatics benzene, toluene, xylenes, and ethylbenzene (BTXE) using EPA Method 8020. The results are summarized in Table 1 and Figure 3. Copies of laboratory reports are included in Appendix A.

Figure 3 shows where the samples were collected. The soil sample collected from the north end of the tank at 11 feet below ground surface revealed TPH-D at 70 milligrams per kilogram (mg/kg), TOG at 960 mg/kg, and MO at 150 mg/kg. The sample collected from the south end of the tank at the depth of 11 feet revealed TPH-G at 3.4 mg/kg and TPH-D at 6.0 mg/kg.

Analysis of samples collected 14.5 feet below the surface at both the north and south ends of the tank detected no TPH as diesel, motor oil, or total oil and grease above laboratory detection limits. Because results indicate that the chemicals did not migrate to or below 14.5 feet, the samples collected from the 16- and 16.5-foot depths were not analyzed.

Analytical results for soil samples from the former tank area indicate that limited fuel leakage occurred. Field observations suggest that this leakage occurred within a very small area, and does not appear to represent a significant release.

4.0 CONCLUSIONS

Mr. Bryne from the ACHCSD, who was present during soil excavation, concluded that sufficient soil had been removed. To monitor potential impacts on underlying groundwater, however, Mr. Bryne requested that at least one monitoring well be installed in or near the tank backfill to characterize groundwater. To satisfy the county's requirement, one monitoring well will be installed in the backfill or downgradient of the former tank area.¹ The monitoring well will be sampled every three months (quarterly) for one year to assess groundwater quality at the facility.

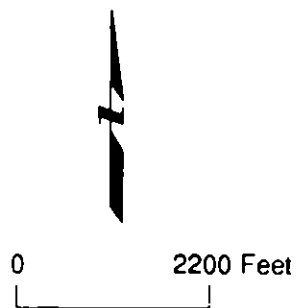
¹ Information from a nearby facility indicates that the direction of groundwater flow is to the west-northwest.

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
 California Hotel
 3501 San Pablo Avenue
 Oakland, California

Sample I.D.	Sampling Date	Approximate Depth (feet)	TPH-G (mg/kg)	TPH-D (mg/kg)	TOG (mg/kg)	MO (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Xylene (µg/kg)	Ethyl-benzene (µg/kg)
North End-11'	10/26/90	11	<2.5	70	960	150	<5	<5	<5	<5
South End-11'	10/26/90	11	3.4	6.0	<10	<50	<5	<5	<5	<5
N-End, 14.5'	11/15/90	14.5	NA	<5	<10	<50	NA	NA	NA	NA
S-End, 14.5'	11/15/90	14.5	NA	<5	<10	<50	NA	NA	NA	NA
SG-1119-1	11/28/90	10.5	NA	<1.0	<10	<10	NA	NA	NA	NA

Notes:

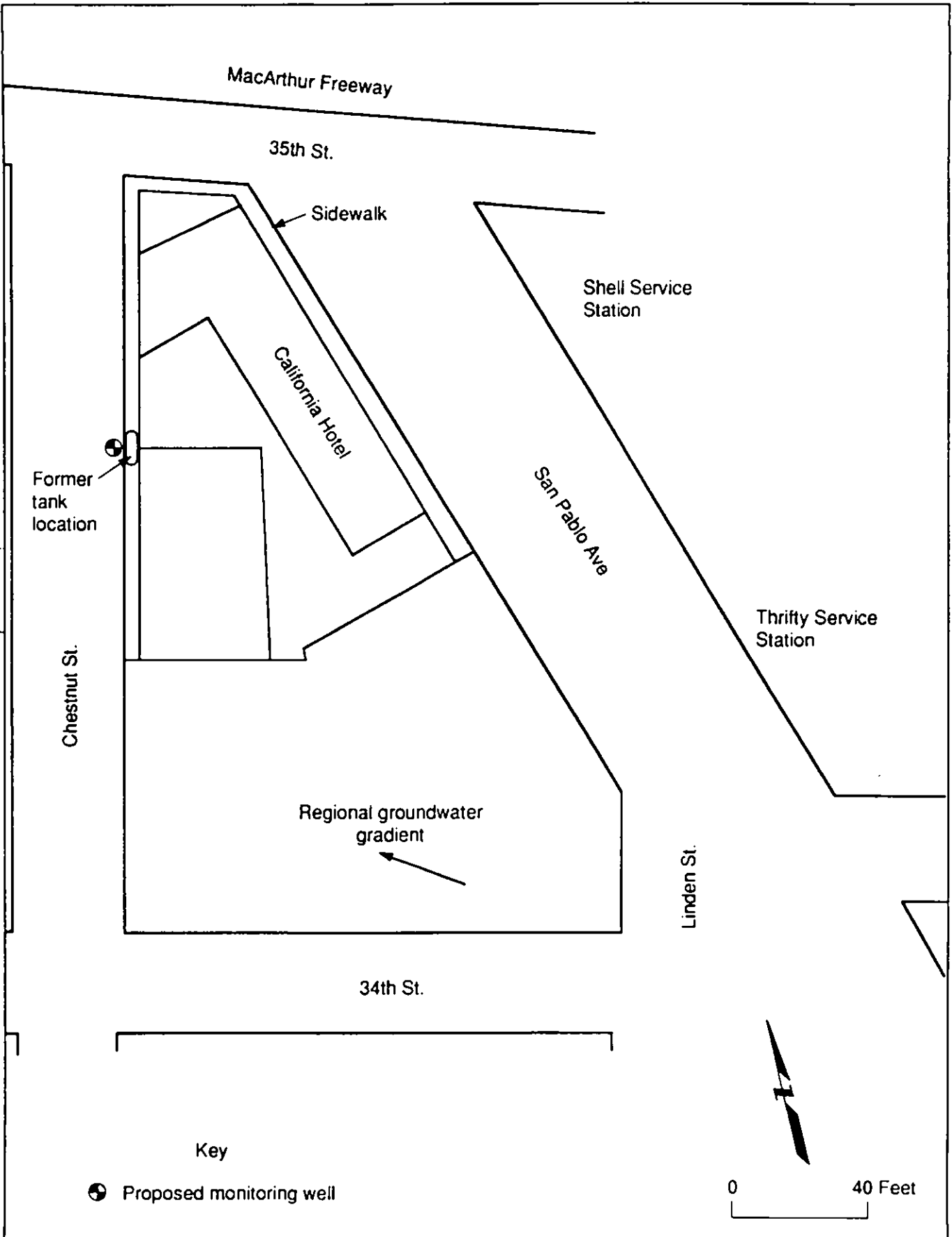
- TPH-G = Total petroleum hydrocarbons, gasoline
- TPH-D = Total petroleum hydrocarbons, diesel
- TOG = Total oil and grease
- MO = Motor oil
- NA = Not analyzed



SITE LOCATION MAP
 CALIFORNIA HOTEL
 3501 San Pablo Avenue
 Oakland, California

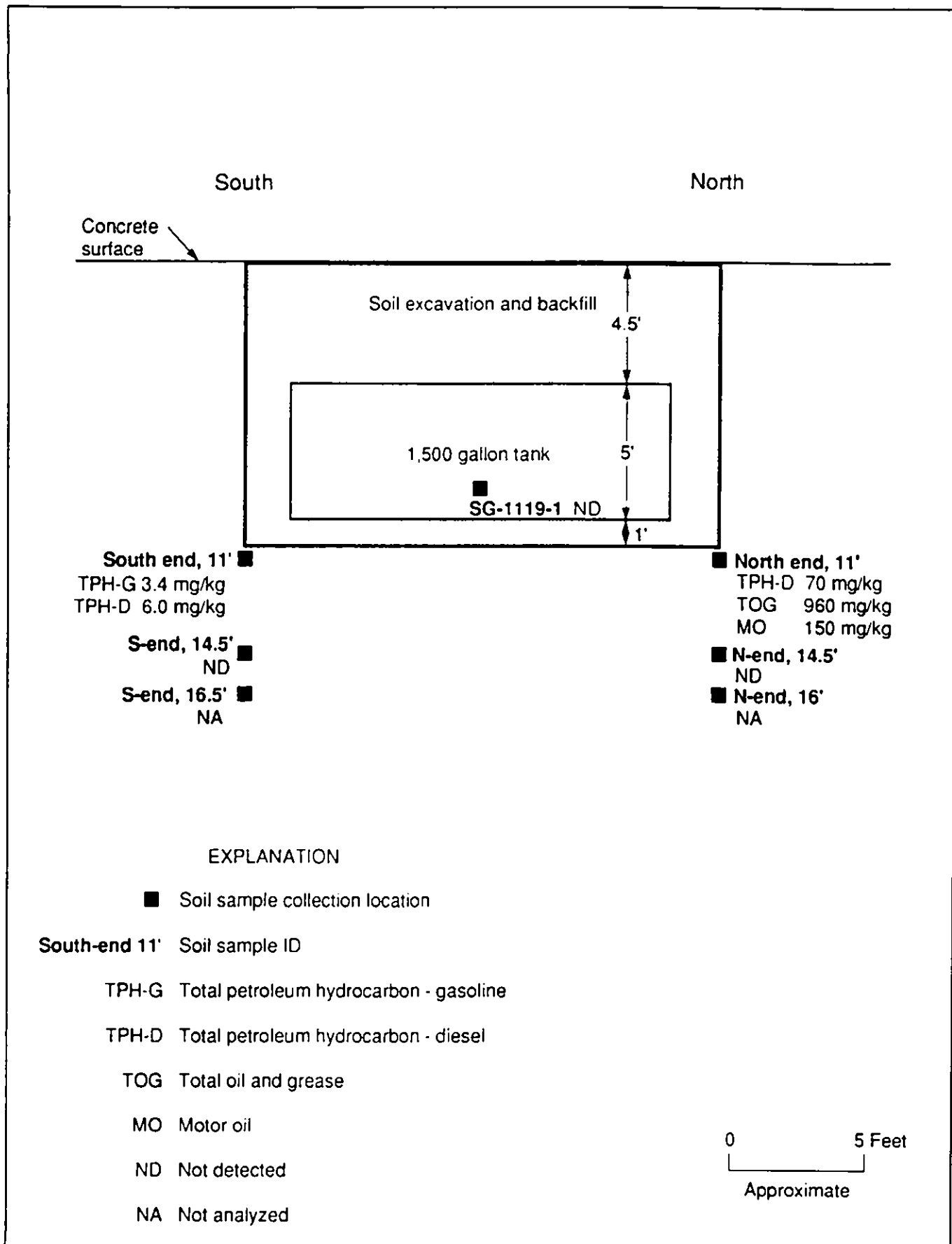
Figure
 1
 Project No
 1747

Warehouse
Residential



FORMER TANK LOCATION
California Hotel
3501 San Pablo Avenue
Oakland, California

Figure
2
Project No.
1747



APPENDIX A

CHAIN OF CUSTODY AND ANALYTICAL LABORATORY REPORTS

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

October 26, 1990

ChromaLab File No.: 1090155

GEOMATRIX CONSULTANTS, INC.

Attn: Ishaque Khalil

RE: Two soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses

Project Number: 1747

Date Sampled: Oct. 18, 1990

Date Submitted: Oct. 19, 1990

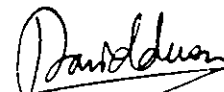
Date Extracted: Oct. 24-26, 1990

Date Analyzed: Oct. 24-26, 1990

RESULTS:

Sample No.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µg/Kg)	Oil & Grease (mg/Kg)	Motor Oil (mg/Kg)
NORTH END-11	N.D.	70	N.D.	N.D.	N.D.	N.D.	960	150
SOUTH END-11'	3.4	6.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKED	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RECOVERY	96.4%	94.5%	86.1%	92.5%	94.4%	93.5%	----	----
DUP SPIKED								
RECOVERY	92.5%	104.6%	90.3%	107.9%	102.5%	89.1%	----	----
DETECTION LIMIT	2.5	5	5	5	5	5	10	50
METHOD OF ANALYSIS	5030/ 8015	3550/ 8015		8020	8020	8020	503 O&E	3550/ 8015

CHROMALAB, INC.



David Duong
Senior Chemist



Eric Tam
Laboratory Director

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

November 15, 1990

Chromalab File No.: 190069

GEOMATRIX CONSULTANTS, INC.

Attn: Isnaque Khalil

RE: Two rush soil samples for TEPH and Oil & Grease analyses

Project Number: 1747

Date Sampled: Nov. 14, 1990

Date Submitted: Nov. 14, 1990


Date Extracted: Nov. 14-15, 1990


Date Analyzed: Nov. 14-15, 1990

RESULTS:

Sample Sample No.	Diesel (mg/Kg)	Motor Oil (mg/Kg)	Oil & Grease (mg/Kg)
N-END, 14.5'	N.D.	N.D.	N.D.
S-END, 14.5'	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.
SPIKED RECOVERY	111.4%	----	----
DETECTION LIMIT	5	50	10
METHOD OF ANALYSIS	3550/8015	3550/8015	5520 D&F

CHROMALAB, INC.


David Duong
Senior Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

November 28, 1990

Chromalab File No.: 1190099

GEOMATRIX CONSULTANTS, INC.

Attn: Mike Rafferty

RE: One soil sample for PEPH and Oil & Grease analysis

Project Number: UCHE #1747

Date Sampled: Nov. 19, 1990

Date Submitted: Nov. 20, 1990

Date Extracted: Nov. 26-28, 1990

Date Analyzed: Nov. 26-28, 1990

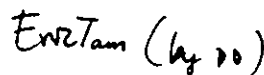
RESULTS:

Sample No.	Motor Oil (mg/kg)	Diesel (mg/kg)	Oil & Grease (mg/kg)
SG-1119-1	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.
SPIKED RECOVERY	----	96.6%	----
DETECTION LIMIT	10	1.0	10
METHOD OF ANALYSIS	3550/8015	3550/8015	5520 D&F

Chromalab, Inc.



David Duong
Senior Chemist



Eric Tam
Laboratory Director



GEOMATRIX CONSULTANTS

ONE MARKET PLAZA
SPEAR STREET TOWER SUITE 717
SAN FRANCISCO, CALIFORNIA 94105
(415) 957-9557

Chain of

CHROMALAB FILE # 1190069

DATE 11/14/90

PAGE 1 OF 1

PROJECT NO.
1747

ANALYSES

SAMPLERS: (SIGNATURE)

Ishaque Khahl

GENERAL MINERAL	PRIORITY POLLUTANT METALS	EPA METHOD 624	EPA METHOD 625	EPA METHOD 601	EPA METHOD 602	EPA METHOD 608	PETROLEUM HYDROCARBONS	NUMBER OF CONTAINERS
							TPH-D C8-503 D/E	

REMARKS

(SAMPLE PRESERVATION,
HANDLING PROCEDURES,
OBSERVATIONS, ETC.)

*All soil samples
in BT with aluminum
foil + plastic caps at
ends - samples on ice*

DATE	TIME	SAMPLE NUMBER
<u>11/14/90</u>	<u>1110</u>	<u>N-End 14.5'</u>
<u>11/14/90</u>	<u>1155</u>	<u>N-End 16.5'</u>
<u>11/14/90</u>	<u>1435</u>	<u>S-End 14.5'</u>
<u>11/14/90</u>	<u>1455</u>	<u>S-End 16'</u>

1 Day TAT!

*Report results to
I. Khahl or T. Graf.*

*Hold samples
N-End 16.5' and
S-End 16'*

TOTAL NUMBER
OF CONTAINERS 4

RELINQUISHED BY:
Ishaque Khahl
SIGNATURE
KHALIL, I
PRINTED NAME
Geomatrix
COMPANY

DATE: 11/14/90
RECEIVED BY:
Tara Donovan
SIGNATURE
TARA DONOVAN
PRINTED NAME
Chromalab, Inc.
COMPANY

RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE: 11-14
RECEIVED BY: (LAB)
Tara Donovan
SIGNATURE
TARA DONOVAN
PRINTED NAME
Chromalab
LABORATORY

RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE:
RECEIVED BY:
SIGNATURE
PRINTED NAME
COMPANY

METHOD OF SHIPMENT:
LABORATORY COMMENTS/OBSERVATIONS

GEOMATRIX CONSULTANTS

ONE MARKET PLAZA
SPEAR STREET TOWER SUITE 717
SAN FRANCISCO, CALIFORNIA 94105
(415) 957-9557

Chain of Custody Record

01083

DATE 11/19/90

PAGE 1 OF 1

PROJECT NO.
OCHI # 1747

ANALYSES

SAMPLERS: (SIGNATURE)

[Signature]

GENERAL MINERAL	PRIORITY POLLUTANT METALS	EPA METHOD 624	EPA METHOD 625	EPA METHOD 601	EPA METHOD 602	EPA METHOD 608	PETROLEUM HYDROCARBONS	NUMBER OF CONTAINERS
							TPH & MO by 8015 OTG by 503DFE	1

REMARKS

(SAMPLE PRESERVATION,
HANDLING PROCEDURES,
OBSERVATIONS, ETC.)

CHROMALAB FILE # 1130099

DATE TIME SAMPLE NUMBER

11/19 1PM SG-1119-1

<i>[Signature]</i>		TOTAL NUMBER OF CONTAINERS		1
		RECEIVED BY: (LAB)		
SIGNATURE		SIGNATURE		SIGNATURE
PRINTED NAME		PRINTED NAME		PRINTED NAME
COMPANY		COMPANY		LABORATORY
RECEIVED BY:		METHOD OF SHIPMENT:		LABORATORY COMMENTS / OBSERVATIONS
SIGNATURE		LABORATORY COMMENTS / OBSERVATIONS		
PRINTED NAME		LABORATORY COMMENTS / OBSERVATIONS		
COMPANY		LABORATORY COMMENTS / OBSERVATIONS		

Report result to
M. Rafferty.

Homogenize prior to
analysis

RELINQUISHED BY:
[Signature]
SIGNATURE
M Rafferty
PRINTED NAME
Geomatrix
COMPANY

DATE
11/19
TIME
3PM
RECEIVED BY:
[Signature]
SIGNATURE
11-20-90
PRINTED NAME
COMPANY

RELINQUISHED BY:
[Signature]
SIGNATURE
PRINTED NAME
COMPANY

DATE
RECEIVED BY: (LAB)
SIGNATURE
PRINTED NAME
LABORATORY

RELINQUISHED BY:
[Signature]
SIGNATURE
PRINTED NAME
COMPANY

DATE
RECEIVED BY:
[Signature]
SIGNATURE
PRINTED NAME
COMPANY

METHOD OF SHIPMENT:
LABORATORY COMMENTS / OBSERVATIONS

LOP - CHANGE RECORD REQUEST FORM

printed:
10/06/98

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

Insp:

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12035
 StID : 3701 LOC:
 SITE NAME: Cahon Associates, Inc. DATE REPORTED : 11/19/90
 ADDRESS : 3501 San Pablo Ave DATE CONFIRMED: 11/19/90
 CITY/ZIP : Oakland 94608 MULTIPLE RPs : Y

SITE STATUS

 CASE TYPE: S CONTRACT STATUS: 4 PRIOR CODE:1C3 EMERGENCY RESP:
 RP SEARCH: S DATE COMPLETED: 07/09/92
 PRELIMINARY ASMNT: DATE UNDERWAY: DATE COMPLETED:
 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: 07/09/92
 LUFT FIELD MANUAL CONSID:
 CASE CLOSED: DATE CASE CLOSED:
 DATE EXCAVATION STARTED : REMEDIAL ACTIONS TAKEN:

RESPONSIBLE PARTY INFORMATION

 RP#1-CONTACT NAME: Greg Hyson
 COMPANY NAME: Oakland Community Housing Inc.
 ADDRESS: 405 14th St., Suite 400
 CITY/STATE: Oakland, California 94612

RP#2-CONTACT NAME: C/o E. A. H.
 COMPANY NAME: N/a
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 CITY/STATE: San Rafael C A 94901

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANNPMS _____ LOP _____ DATE _____

LOP _____ DATE _____

- Only boots may be contaminated.

Criteria For PPE Selection

PPE is selected by the health and safety team with the concurrence of the supervisor primarily on the basis of hazard anticipation, observation, and assessment of the various work assignments. Some of the criteria for PPE selection are listed below. Additional PPE equipment may be used at the discretion of the individual employee. No less than the regulatory requirement for PPE is allowed.

- PPE is selected and used that will protect personnel from the hazards and potential hazards identified during site characterization.

- PPE selection is based on an evaluation of the performance characteristics of the PPE relative to the requirements and limitations of the site.

- The level of protection provided by PPE is increased when additional information or site conditions show that increased protection is necessary to reduce personnel exposures to below permissible limits.

- Air monitoring is used to identify and quantify airborne levels of hazardous substances and health hazards to determine the appropriate level of employee protection needed on-site. As a first step, air monitoring is conducted to identify IDLH, flammable atmospheres, oxygen-deficient environments, and toxic levels of airborne contaminants (above TWA concentrations).

- Pursuant to 29 CFR 1910.120 (h) (3) at a minimum, periodic air monitoring is required when (1) the possibility of an IDLH condition or flammable atmosphere has developed or (2) when there is indication that exposures may have risen since prior monitoring. Required situations where it shall be considered that exposures may have risen are: (1) work begins, (2) work begins on a different portion of the site, (3) contaminants other than those previously identified are being handled, (4) a different type of operation is initiated, (5) personnel are handling leaking drums or containers or working in areas with obvious liquid contamination (spill or pond), a sufficient reasonable interval has passed so that exposure may have significantly increased.

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