

LOP - RECORD CHANGE REQUEST FORM

printed:  
01/29/99

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

Insp: EC

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 12035  
 StID : 2949      LOC:  
 SITE NAME: U.S. Veterans Admin. Hospital      DATE REPORTED : 11/09/90  
 ADDRESS : 4951 Arroyo Rd      DATE CONFIRMED: 11/09/90  
 CITY/ZIP : Livermore      94550      MULTIPLE RPs : N

SITE STATUS

-----  
 CASE TYPE: S      CONTRACT STATUS: 4      PRIOR CODE:2A3      EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 04/27/92  
 PRELIMINARY ASMNT: C      DATE UNDERWAY:      DATE COMPLETED: 10/03/95  
 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: 04/27/92  
 LUFT FIELD MANUAL CONSID: HSCGA  
 CASE CLOSED: Y      DATE CASE CLOSED: 01/29/99  
 DATE EXCAVATION STARTED : 11/09/90      REMEDIAL ACTIONS TAKEN: ED GT

RESPONSIBLE PARTY INFORMATION

-----  
 RP#1-CONTACT NAME: Jim Pitzer -engineer  
 COMPANY NAME: V A Medical Center  
 ADDRESS: 4951 Arroyo Rd  
 CITY/STATE: Livermore, C A 94550

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only      Case Progress Changes

ANNPGMS \_\_\_\_\_ LOP \_\_\_\_\_ DATE \_\_\_\_\_      LOP \_\_\_\_\_ DATE \_\_\_\_\_



**WEST HAZMAT  
DRILLING CORP.**  
An Interwest Company

8261 Enterprise Drive, #D  
Newark, California 94560  
(510) 494-8111  
FAX (510) 494-8144

**Environment & Health  
131 Harbor Bay suite 250  
Alameda, Ca. 94502-6577**

Attn. Eva Chu,  
Regarding V.A. Livermore Divison 4951 Arroyo Rd. Livermore, Ca.

Dear Miss Chu,  
On 1-21-99 West Hazmat Drilling pressure grouted 3 -2''x25' wells. We topped wells off with portland cement and applied pressure with grout pump untill formation would not take more grout.

A handwritten signature in black ink, appearing to read 'Ernest E. Gutierrez', written in a cursive style.

Ernest E. Gutierrez  
Operations Manager

# Alameda County Environmental Health

1131 Harbor Bay Pkwy., #250  
Alameda CA 94502-6577  
Telephone (510) 567-6700 FAX (510) 337-9335

925/447-2560  
x 36158

## FACSIMILE COVER SHEET

TO:

Gary Geisenhoffer, 925-455-7428

FROM:

Juliet Shin

DATE:

09/21/98

Total number of pages including cover sheet

2

-NOTES-

Per your request, here is a copy  
of Eva's well destruction letter.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

StID 2949

May 6, 1997

Mr. Jim Pitzer  
VA Medical Center  
4951 Arroyo Road  
Livermore, CA 94550

RE: Well Decommission at 4951 Arroyo Road, Livermore, CA

Dear Mr. Pitzer:

This office and the San Francisco RWQCB have reviewed the case closure summary for the above referenced site and concur that no further action related to the underground tank release is required at this time. Before a remedial action completion letter is sent, the onsite monitoring wells (MW-1 through MW-3) should be decommissioned, if they will no longer be monitored. Please notify this office upon completion of well destruction so a closure letter can be issued.

Well destruction permits may be obtained from Alameda County Flood Control and Water Conservation, Zone 7. They can be reached at (510) 484-2600.

If you have any questions, I can be reached at (510) 567-6762.

Sincerely,

eva chu  
Hazardous Materials Specialist

LOP - RECORD CHANGE REQUEST FORM

printed:  
03/18/97

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

Insp: EC

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 12035  
 StID : 2949      LOC:  
 SITE NAME: U.S. Veterans Admin. Hospital      DATE REPORTED : 11/09/90  
 ADDRESS : 4951 Arroyo Rd      DATE CONFIRMED:  
 CITY/ZIP : Livermore 94550      MULTIPLE RPs : N

SITE STATUS

-----  
 CASE TYPE: S      CONTRACT STATUS: 4      PRIOR CODE:2A3      EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 04/27/92  
 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: 04/27/92  
 LUFT FIELD MANUAL CONSID: 2  
 CASE CLOSED:      DATE CASE CLOSED:  
 DATE EXCAVATION STARTED : 11/09/90      REMEDIAL ACTIONS TAKEN:

RESPONSIBLE PARTY INFORMATION

-----  
 RP#1-CONTACT NAME: Jim Pitzer -engineer  
 COMPANY NAME: V A Medical Center  
 ADDRESS: 4951 Arroyo Rd  
 CITY/STATE: Livermore, C A 94550

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only      Case Progress Changes

ANNPMS \_\_\_\_\_ LOP \_\_\_\_\_ DATE \_\_\_\_\_ || LOP \_\_\_\_\_ DATE \_\_\_\_\_

## ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

04/26/96

UNDERGROUND STORAGE TANK CLEANUP SITE
---------------------------------------

AGENCY#: 10000	SOURCE OF FUNDS: F-FEDERAL	INSPECTOR: EC
StID: 2949	SUBSTANCE: 12035 -Waste Oil	
SITE NAME: U.S. Veterans Admin. Hospital	DATE REPORTED : 11/09/90	
ADDRESS : 4951 Arroyo Rd	DATE CONFIRMED: -0-	
CITY/ZIP : Livermore, CA 94550	MULTIPLE RP's : N	

CASE TYPE: S	CONTRACT STATUS: 4	PRIOR: 2A3	EMERGENCY RESPONSE: -0-
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RP SEARCH	: S	DATE END: 04/27/92
PRELIM ASSESSMENT	: -	DATE BEGIN: -0-
REMEDIAL ASSESSMENT	: -	DATE END: -0-
REMEDIAL INVESTIG	: -	DATE BEGIN: -0-
REMEDIAL ACTION	: -	DATE END: -0-
POST REMED MONITOR:	-	DATE BEGIN: -0-
		DATE END: -0-

TYPE ENFORCEMENT ACTION TAKEN: 1	DATE OF ENFORC. ACTION: 04/27/92
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UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2
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LUFT FIELD MANUAL CONSIDERATION: 2	CASE CLOSED: - on: -0-
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DT EXC START: 11/09/90	REMEDIAL ACTIONS TAKEN: -0-
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RP #1: CONTACT: Marvin O' Rear	RP COST: -0-
RP COMPANY NAME: V A Medical Center	Ph: -0-
ADDRESS: 4951 Arroyo Rd	
CITY/STATE: Livermore, C A 94550	

△EnMENT:
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**ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR  
DEPARTMENT OF ENVIRONMENTAL HEALTH

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
1131 HARBOR BAY PARKWAY, 2ND FLOOR  
ALAMEDA, CA 94502-6577**

Herb.

January 10, 1995

Regarding our meeting to tour the facilities tomorrow at 11:00 AM, let's postpone that until next week - (because of the rain and all). Wednesday is open for me - say at 11:00 AM? if so, please call to confirm: (510) 567-6762

A handwritten signature in cursive script, appearing to read 'Eva Chu'.

EVA CHU



**GROWTH**

Growth Environmental Services, Inc.

ENVIRONMENTAL  
PROTECTION

95 SEP 18 PM 4: 22

August 17, 1995

REF: SF079508

Eva Chu  
Alameda County Health Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

RE: Underground Storage Tank (UST) Removal and Soil Sampling at the Veterans Administration Medical Center, 4951 Arroyo Road, Livermore, California

Dear Ms. Chu:

The enclosed Underground Storage Tank (UST) Removal report documents the removal of eight UST's that occurred between February 24, 1995 and May 19, 1995. Six of the tanks removed contained diesel fuel and the tanks varied in volume from 560 gallons to 2,000 gallons. Two 750 gallon gasoline tanks, one leaded and one unleaded, were also removed from the site. Soil samples were collected under direction from the Alameda County Department of Environmental Health in native soils beneath the former tank locations.

In areas requiring over-excavation, contaminated soils were removed, and confirmatory samples were collected. Stockpiled soils were sampled and either disposed of or returned to their respective excavation as clean backfill material. All tank closure activities were carried out under direction of the Alameda County Department of Environmental Health. Two addendum reports will follow documenting in place tank closures and additional soil sampling inside the fire house.

GROWTH requests case closure from the Alameda County Department of Environmental Health on the tank removals documented in this report.

Please contact us at (707) 745-0171 if you have any questions concerning the tank removal activities.

Respectfully,

*Michael Davis*  
Michael T. Davis  
Project Geologist

863-4171

*Mark Lafferty*  
Mark Lafferty, R.G.  
Director of Geosciences

Attachment



**R** EMEDIAL  
**C** ONSTRUCTORS,  
**I** NC.

**SDBE / MBE / DVBE**  
**License No. 645468, A & HAZ**

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July 26, 1995

Department of Environmental Health  
Hazardous Materials Division  
1131 Harbor Bay Parkway  
Alameda, CA 94502

Attn: Ms. Juliet Shin

Re: Underground Storage Tank Replacements at VA Medical Center, Livermore, CA

Subj: Job Photos and Grout Tags

Dear Ms. Shin:

Attached please find photographs and grout tags for tanks 62-1 and 62-2 which were closed in place as requested by Marcie Bell.

If you have any questions please call me at the Elk Grove office at (916) 686-6154.

Sincerely,



Peggy Hallock  
Contract Administrator  
Remedial Constructors, Inc.



white -env.health  
yellow -facility  
pink -files

ALAMEDA COUNTY, DEPARTMENT OF  
ENVIRONMENTAL HEALTH  
Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

II, III

Site ID # \_\_\_\_\_ Site Name VA Med Center Today's Date 6/15/95  
Site Address 4951 Arroyo Rd  
City Livermore Zip 94 Phone \_\_\_\_\_

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

**Inspection Categories:**

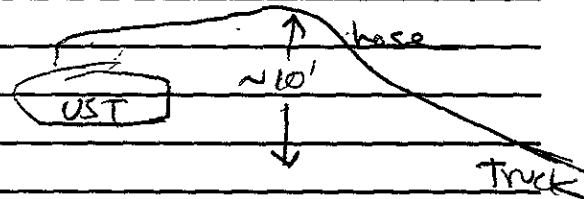
- \_\_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER  
\_\_\_\_ II. Hazardous Materials Business Plan, Acutely Hazardous Materials  
\_\_\_\_ III. Under ground Storage Tanks

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

**Comments:**

Tank opening exposed for filling w/ grout mix  
When on site, too much sand in mix. Would not go through  
hose to tanks (couldn't make the rise).  
Cement truck left to add more cement (cream) to mix  
so it will flow through hose more easily.

Told be (RCS) to document grouting  
of USTs w/ photos. Bear in mind  
volume of grout ~~mix~~ should be  
equal to volume of UST.



Contact \_\_\_\_\_  
Title \_\_\_\_\_  
Signature \_\_\_\_\_

Inspector \_\_\_\_\_  
Signature Ward

II, III

730-15

-white -env.health  
yellow -facility  
pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

## Hazardous Materials Inspection Form

II, III

Site ID # 2949 Site Name VA Medical Center Today's Date 5/19/95

Site Address 4951 Arroyo

City Livermore Zip 94550 Phone \_\_\_\_\_

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

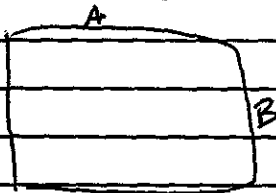
### Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Hazardous Materials Business Plan, Acutely Hazardous Materials
- III. Under ground Storage Tanks UST Removal

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

### Comments:

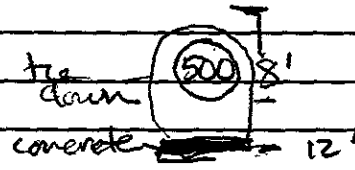
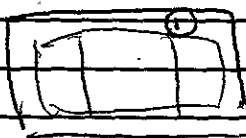
2K diesel FG tank 9% CEL 2-90<sub>2</sub> (Bldg 65) (by Fire house)  
 In good condition, no holes/cracks noted  
 Surface water got into pit - Sheen / floating produce not on  
 water surface - No water sample



A - Stained green gravel w/ clay at 10' bgs - strong odor  
 B - coarse sand w/ silt - brown - no odor - at 11.6'

Analyze sample A for TPH-D, BTEX and PNAs

(Bldg 64) 500 gal FG UST for diesel 8% O<sub>2</sub>; 5% CEL  
 Doublewalled FG pipes - Tank tied down to concrete slab  
 Slight odor note in backfill material (mostly pea gravel)



① SS take at ~12 bgs - silty sand, no odor  
 Analyze for TPH-D, BTEX

FG UST in good condition. No signs of leaks / holes (except that made w/ backhoe)

Contact GROWTH  
 Title Staff Geologist  
 Signature Michael Davis

Inspector EVA  
 Signature [Signature]

II, III

P2

white -env.health  
yellow -facility  
pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

## Hazardous Materials Inspection Form

II, III

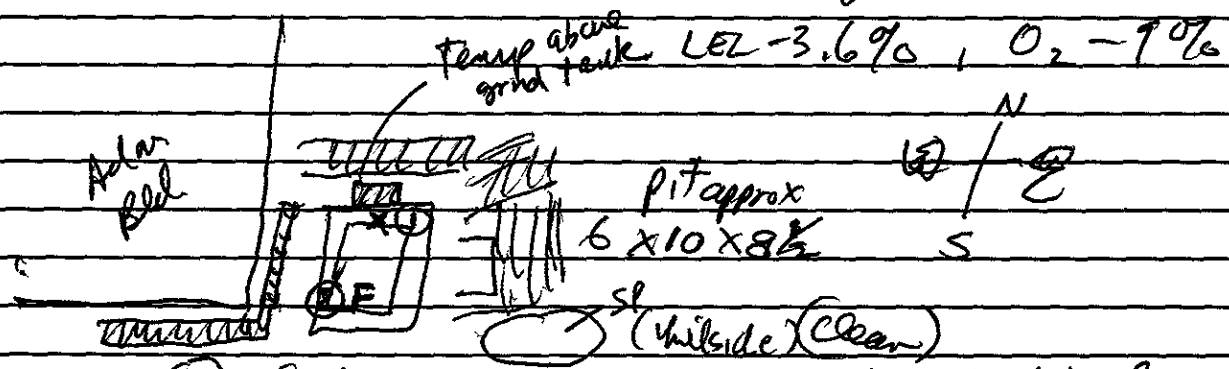
Site ID # \_\_\_\_\_ Site Name VA Medical Center Today's Date 3/29/95  
Site Address 4951 Arroyo Rd  
City Livermore Zip 94550 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?  
**Inspection Categories:**  
I. Haz. Mat/Waste GENERATOR/TRANSPORTER  
II. Hazardous Materials Business Plan, Acutely Hazardous Materials  
III. Under ground Storage Tanks R

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

Comments: Bld 88 Encl. # 430334 exp 5/95

1000 gal fiberglass tank in rear of Adm. Bldg



Soils are sandy, gravel used as backfill  
- no holes observed, no odors present  
spoils from tank ~ 3cyds

Manifest # 95204830 -> 95204830

- Spill - Mike Davis from Growth Sur.

Tank was sitting on a concrete slab, will expose ea end + spill below into native

- Spill (1) from N end @ ~ 8 1/2', no odor sandy silty soil

- Spill (2) from E wall near full end, no odor, " " "

1 - dia. spile from spots (small pile) taken - All spile to be run for UPTD + BTEX

Contact M. Davis

Title \_\_\_\_\_

Signature M. Davis

Inspector B Chan

Signature B Chan

II, III

P 1

white - env. health  
yellow - facility  
pink - files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

## Hazardous Materials Inspection Form

II, III

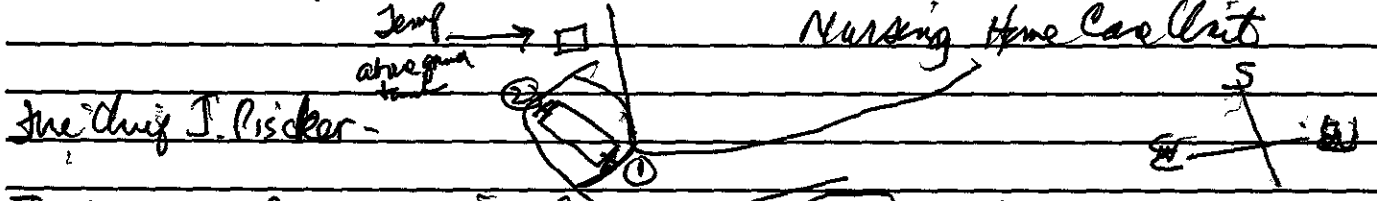
Site ID # \_\_\_\_\_ Site Name VA Hospital Today's Date 3/29/95  
Site Address 4951 Arroyo Rd  
City Livermore Zip 94550 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?  
**Inspection Categories:**  
 I. Haz. Mat/Waste GENERATOR/TRANSPORTER  
 II. Hazardous Materials Business Plan, Acutely Hazardous Materials  
 III. Under ground Storage Tanks Removal

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

### Comments:

Witness the removal of 2 diesel tanks  
1-2000 gal Bld 90  
R.I. Contractors 2.7% LEL, O<sub>2</sub> = 8.5% Randy & Joe  
Enchsen - Painter



John J. Pischer -  
Tank is still 3 - single walled  
Steel tank - no holes observed. Spills  
Tank held to a concrete slab w/ 2 Straps. 30 x 14 x 5/8" ≈ 50 cys  
Pit ≈ 10 x 7 x 8', 2 sacrificial anodes still intact on ends of tank  
- Splers taken beyond slab into native soil  
Sple 1 - NW est end ~10' BGS, silty sandy soil - no odor  
Sple 2 - SE east corner ~10' BGS, silty sand - no odor  
2 discrete splers for stockpile soils taken  
All splers to be run for TPHd + BTEX

Contact M. Davis  
Title \_\_\_\_\_  
Signature Michael Davis

Inspector B Chan  
Signature B Chan

II, III



ERICKSON Tank Processing JOB #: \_\_\_\_\_  
TANK CERTIFICATION

\*\*\*\*\* PART 1 - To be completed by the Customer \*\*\*\*\*

CUSTOMER: RCI

GENERATOR: VA med center

State Waste Codes: 512

LOCATION: 4451 ARROYO RD  
LIVERMORE

EPA ID.#: CA 336 000 7295

EPA Waste Codes:  
 None  
 See Attached

TRANSPORTER: \_\_\_\_\_

MANIFEST #: 95204830

	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6
TANK #:	<u>15493</u>	<u>15494</u>	_____	_____	_____	_____
CAPACITY:	<u>2000</u>	<u>1000</u>	_____	_____	_____	_____
DIAMETER:	<u>64"</u>	<u>48"</u>	_____	_____	_____	_____
LENGTH:	<u>12'</u>	<u>10.5'</u>	_____	_____	_____	_____
STEEL/GLASS:	<u>Steel</u>	<u>GLASS</u>	_____	_____	_____	_____
LAST CONTAINED:	<u>Diesel</u>	<u>Diesel</u>	_____	_____	_____	_____

LG = Leaded Gas, UG = Unleaded Gas, D = Diesel, UO = Used Oil, FO = Fuel Oil  
Specify the material Last Contained if other than above.

ERICKSON, INC. TANK PROCESSING FACILITY  
LAND DISPOSAL RESTRICTION NOTIFICATION FORM

The waste represented on this manifest is not generated by a chemical manufacturing plant, coke-by-product recovery plant of petroleum refinery. As such, it is not regulated under 40 CFR Part 61, Subpart FF (NESHAPS for Benzene Operations).

Pursuant to 40 CFR 268.7 I am notifying Erickson, Inc. that the material described by the above manifest is a nonwastewater, Non-RCRA hazardous waste and not currently subject to EPA Land Disposal Restrictions.

Pursuant to CCR 22 66268.7 I am notifying Erickson, Inc. that the material described by the manifest is a metal containing Non-RCRA solid hazardous waste (66268.29(g)), with treatment standard at 66268.106 (a) (3) Table CCWE I-C. It is also an organics containing Non-RCRA solid hazardous waste (66268.29 (k)), with treatment standard at 66268.113. Both metal and organic containing Non-RCRA solid hazardous wastes are subject to a variance from prohibition from land disposal which expires after 12/31/94.

I understand that Erickson, Inc. has relied on these representations in preparing it's quote. If these representations are incorrect, I agree to be charged an additional amount according to the schedule of charges in effect at that time.

I am an authorized agent/representative of the generator. I certify that all information submitted in this and associated documents is complete and accurate. The tanks on the transport equipment have been numbered to correspond with the information provided above. In the event that the tanks do not correspond to the form, I will pay any and all costs incurred in rectifying the discrepancy(ies) between the tank(s) and the form. I am aware that due to the inherent uncertainties in measuring the remaining contents of tank(s) that the tank(s) may contain excessive solids or liquids. In such event, I agree to pay the cost of preparation, transportation and disposal/recycling of the excess material according to the schedule of charges in effect at the time of receipt of the tank(s). Further, I will not hold Erickson, Inc. responsible for any damage to tanks which occurs after the tanks are removed from the ground.

AUTHORIZED REPRESENTATIVE

SIGNATURE: [Signature]  
PRINT NAME: JAMES PITZER

DATE: 3-27-95  
TITLE: Owner

95204830

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

GENERATOR FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CA3360007295		Manifest Document No. 04830		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address VA MEDICAL CENTER 4951 ARROYO RD LIVERMORE CA 94550				A. State Manifest Document Number 95204830		B. State Generator's ID							
4. Generator's Phone (510) 447-2560				C. State Transporter's ID 430334		D. Transporter's Phone 510-235 1393							
5. Transporter 1 Company Name ERICKSON INC		6. US EPA ID Number CA100914663912		E. State Transporter's ID		F. Transporter's Phone							
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone (510)235-1393							
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvd. Richmond, CA. 94801				10. US EPA ID Number CA100914663912									
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste Number			
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.				2 T P		2400		P		State 512 EPA/Other NONE			
b.										State EPA/Other			
c.										State EPA/Other			
d.										State EPA/Other			
J. Additional Descriptions for Materials Listed Above Qty. <u>2</u> Empty Storage Tank(s) # <u>15493 15494</u> . _____, _____ Tank(s) have been inerted with 15 lbs. Dry Ice Per 1000 Gallon Capacity.				K. Handling Codes for Wastes Listed Above		a.		b.		c.		d.	
15. Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name. <u>Randy Lopez</u> & Phone <u>916 697 3219</u>													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name <u>Jim Pitzer</u>		Signature <u>[Signature]</u>		Month <u>03</u>		Day <u>27</u>		Year <u>95</u>					
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name <u>DAN BAILEY</u>		Signature <u>[Signature]</u>		Month <u>3</u>		Day <u>27</u>		Year <u>95</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature		Month		Day		Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				Printed/Typed Name		Signature		Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

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

StID 2949

February 28, 1995

Mr. Jim Pitzer-Operations Foreman  
Veterans Administration MC  
4951 Arroyo Rd  
Livermore, CA 94550

RE: Additional Investigations at VA Medical Center, 4951 Arroyo  
Rd, Livermore 94550

Dear Mr. Pitzer:

This letter is a request for additional investigations at the onsite fire station, and for the proposed closure of two underground storage tanks adjacent to Building 62.

Please referenced my letter to you dated August 6, 1993 (attached) regarding the need to delineate the extent of soil contamination beneath the fire house. This can be done by advancing a soil boring approximately 10 to 20' inside the fire house, collecting soil samples at 5' intervals to a depth of 20', and analyzing selected soil samples for TPH-D, BTEX, and TOG.

Also, soil borings advanced around the tanks by Building 62 in July thru August 1993, in preparation for closure of the tanks in place must to repeated since the tanks are presently still in use. Angle borings can be advanced so soil samples can be collected from beneath each tank, or, if angle borings are not possible, soil borings may be advanced as near the center of each tank as possible to collect soil samples.

Please submit a workplan and/or an amended workplan for the above required investigations. If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

cc: Herman Dobkins, RCI, 5030 Shiloh Rd, Modesto, CA 95358  
files

white - env. health  
yellow - facility  
pink - files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

## Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

II, III

Site ID # 2945 Site Name VA Med Center Today's Date 2/24/95

Site Address 4951 Arroyo Rd

City Livermore Zip 94550 Phone \_\_\_\_\_

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

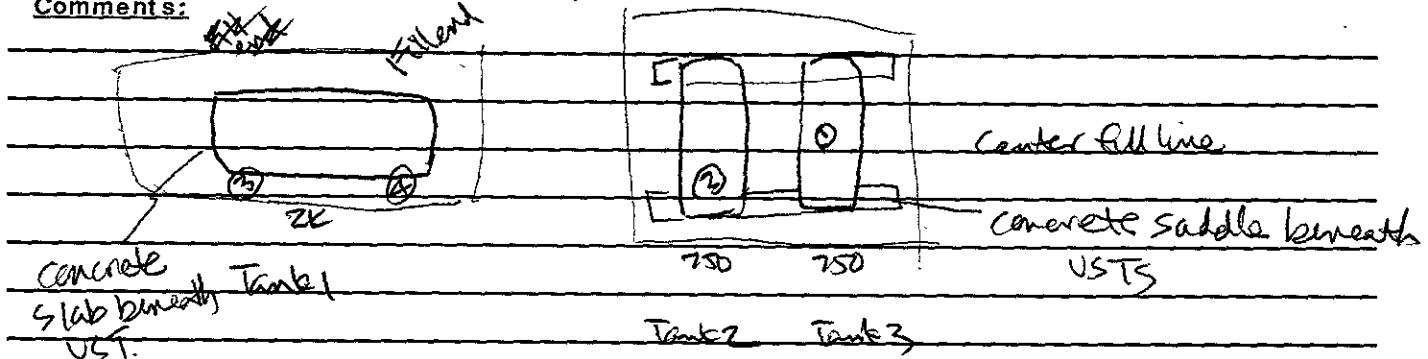
### Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Hazardous Materials Business Plan, Acutely Hazardous Materials
- III. Under ground Storage Tanks Removal

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

Gasoline Tanks by Bldg 79

### Comments:



Tank 1 <sup>30%</sup> UEL .99 O<sub>2</sub>  
 Tank 2 8% UEL 1% O<sub>2</sub>  
 Tank 3 5% UEL 1.1% O<sub>2</sub>

Product lines wrapped - show no signs of leaking.

Tank 3 - Rust, corrosion & some pitting but no through holes noted  
 Tanks appear to have rested on concrete saddle  
 Tank 2 - Rust, corrosion, some pitting but no through holes noted.  
 Tank 1 - Top wrapped - contact, no holes noted.

Contact \_\_\_\_\_  
 Title \_\_\_\_\_  
 Signature Michael Davis GROWTH

Inspector Arachy  
 Signature Arachy

II, III

white -env. health  
yellow -facility  
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

II, III

Site ID # 2949 Site Name VA Med Center Today's Date 2/24/95

Site Address 4951 Arroyo Rd

City Livermore Zip 94550 Phone \_\_\_\_\_

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

**Inspection Categories:**

\_\_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER

\_\_\_\_ II. Hazardous Materials Business Plan, Acutely Hazardous Materials

X III. Under ground Storage Tanks Removal

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

Comments: By Bldg 64

560 gallon diesel  generator 0.2% LEL 1.8% O<sub>2</sub>

Fill end

during tubes

Tank in good condition, little corrosion - no through holes.

Soil sample collected at ~ 7 1/2' depth - brown - silty sand, no other.

Analyze for TPH-D and BTEX

Contact \_\_\_\_\_

Title \_\_\_\_\_

Signature Michael Davis GROWTH

Inspector EDW clw

Signature [Signature]

II, III

white -env. health  
yellow -facility  
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

II, III

Site ID # 2945 Site Name VA Med Center Today's Date 2/24/95

Site Address 4951 Arroyo Rd

City Livermore Zip 94550 Phone \_\_\_\_\_

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

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Hazardous Materials Business Plan, Acutely Hazardous Materials
- III. Under ground Storage Tanks Removal

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

Comments:

Sampling by gasoline USTs - By Bldg 19

Tank 3 sample ① at 8' depth - gravelly sand w/ silt - very hard. No odor

Tank 2 sample ② at 8' depth - vslight odor

Tank 1 sample ③ at 9.5' no odor  
sample ④ at 9.5' sl-mod odor

Analyze for TPH-G, BTEX and total Pb for samples collected under Tanks 2 and 3

Analyze for TPH-G and BTEX for samples collected under tank 1.

Contact \_\_\_\_\_

Title \_\_\_\_\_

Signature Michael Davis GROWTH

Inspector Eva Chu

Signature [Signature]

II, III

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION

office copy

1131 HARBOR BAY PARKWAY, STE 250  
ALAMEDA, CA 94502-6577  
TELE: (510) 567-6700  
FAX: (510) 337-9335

Wzsch 1/19/95  
Note changes (additions in RED)

ACCEPTED  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
470 - 27th Street, Third Floor  
Oakland, CA 94612  
Telephone: (415) 874-7237

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 indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 48 hours prior to the following required inspections:

- Removal of Tank and Piping
- Sampling
- Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

UNDERGROUND TANK CLOSURE PLAN

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

1. Business Name Remedial Constructors Inc. DVA Med. Cntr.  
Business Owner Chuck Bailey
  2. Site Address 4951 Arroyo Road  
city Livermore CA Zip 94550 Phone (510) 447-2560
  3. Mailing Address 4951 Arroyo Rd.  
city Livermore CA Zip 94550 Phone (510) 447-2560
  4. Land Owner Dept. of Veterans Affairs, Medical Center  
Address 4951 Arroyo Rd. Livermore City, State CA. zip 94550
  5. Generator name under which tank will be manifested Remedial Constructors Inc.
- EPA I.D. No. under which tank will be manifested CAD980 883 177

6. Contractor Remedial Constructors Inc.  
Address 5030 Shiloh Road  
City Modesto Ca. 95358 Phone (209) 537-8196  
License Type\* A & HAZ ID# 645468

\*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 Stanley L. Klemetson, PH.D, P.E.  
Address 536 Stone Road, Suite J  
City Benicia, CA. 94510-1016 Phone (707) 745-0171

8. Contact Person for Investigation

Name Stanley Klemetson Title \_\_\_\_\_  
Phone (707) 745-0171

9. Number of tanks being closed under this plan 7. to be removed  
Two to be closed in place  
Length of piping being removed under this plan \_\_\_\_\_  
Total number of tanks at facility 40K. 9/10

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 Erickson Inc. EPA I.D. No. 94807  
Hauler License No. 168067 License Exp. Date 7/31/95  
Address 255 Parr Blvd.  
City Richmond, CA. 94801 State CA. Zip 94801

b) Product/Residual Sludge/Rinsate Disposal Site

Name Gibson Environmental EPA I.D. No. CAD980883177  
Address 3300 Truxton Ave. Suite 200  
City Bakersfield State CA. Zip 93301

c) Tank and Piping Transporter

Name Erickson Inc. EPA I.D. No. 94807  
Hauler License No. 168067 License Exp. Date 7/31/95  
Address 255 Parr Blvd.  
city Richmond state CA. zip 94801

d) Tank and Piping Disposal Site

Name Erickson Inc. EPA I.D. No. 94807  
Address 255 Parr Blvd.  
city Richmond state CA. zip 94801

11. Experienced Sample Collector

Name R.C.I. Remedial Constructors Inc.  
Company \_\_\_\_\_  
Address 5030 Shiloh Road  
city Modesto state CA. zip 95358 Phone <sup>(209)</sup> 537-8196

12. Laboratory <sup>McCampbell Labs</sup>

Name CKY Inc. <sup>LAB</sup> (213) 371-0048; <sup>(310)</sup> 618-8889  
Address <sup>630 Maple, Torrance</sup> 3480 Torrance Blvd. Suite 100  
city Torrance <sup>Engr Dept (310) 712-3728</sup> State CA. Zip 90503  
State Certification No. 1111

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

Dry Ice verify with LEL meter  
at least 25 lbs / 1000 gallon UST

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)		
560 gal.	Diesel, unk. install, Last used 1/95	soil	Bottom, center
750 gal. (2 EA.)	GASOLINE, unk. install Last used 1/95	soil	Bottom center
2,000 gal.	Diesel, unk. install Last used 1/95	soil	Bottom, each end.
2,000 gal.	GASOLINE, unk. install Last used 1/95	soil	Bottom, each end.
2,200 gal.	Diesel, unk. install Last used 1/95	soil	Bottom, each end. in native soil,

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.



14. Describe methods to be used for rendering tank inert

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

(Continued)

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
1,000 gal.	Diesel, unk. install LAST used 1/95	soil	Bottom, <sup>each end</sup> center
2,000 gal. "closure"	Diesel, unk. install LAST used 1/95	soil	angle boring
5,000 gal. "closure"	Diesel, unk. install LAST used 1/95	soil	angle boring

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) 500 yds.	Sampling Plan 1 sample per 50 cy composited four samples into one from widely spaced AREAS. - for disposal 1/20 cy for re-use

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
Diesel	TPH-D BTEX	EPA <del>8015</del> 8015M EPA 8020	
Gasoline Leaded	TPH-G BTEX	EPA 8015M EPA 8020	
Total Pb	Lead	EPA 7421	

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Fund

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) HERMAN R. DOBKINS

Signature Herman Dobkins

Date 1/3/95

Signature of Site Owner or Operator

Name (please type) JAMES J. PITZER

Signature James J. Pitzer

Date 1-19-95

**STATE  
COMPENSATION  
INSURANCE  
FUND**

P.O. BOX 807, SAN FRANCISCO, CA 94101-0807

**CERTIFICATE OF WORKERS' COMPENSATION INSURANCE**

ISSUE DATE: 04-01-94

POLICY NUMBER: 1338511 - 94  
CERTIFICATE EXPIRES: 04-01-95

MARK J. HALLOCK  
8627 DIAMOND OAK WAY  
ELK GROVE, CA 95624

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon 10 days' advance written notice to the employer.

We will also give you 10 days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance 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.

  
PRESIDENT

EMPLOYER'S LIABILITY LIMIT: \$3,000,000.00 PER OCCURRENCE.

EMPLOYER

LEGAL NAME

REMEDIAL CONSTRUCTORS, INC  
5030 SHILO ROAD  
MODESTO CA 95358

REMEDIAL CONSTRUCTORS, INC

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION  
Declaration of Site Account Refund Recipient

SITE OWNER FILLS OUT PER SITE

-- OPTIONAL --

The property owner will use this form to designate someone other than him- or her- self to receive any refund due at the completion of all deposit/refund projects at the site listed below. In the absence of this form, the property owner will receive any refund. Only one person at any one time may be designated to receive any refund.

SITE NUMBER/ADDRESS:

PROPERTY OWNER

Site Number

D.V.A. Med. Cntr.

Company Name

DVA. Med. Cntr.

Owner's Name

4951 Arroyo Road

Street Address

4951 Arroyo Rd.

Owner's Address

Livermore Ca. 94550

City

Zip Code

Livermore CA. 94550

Owner's City

State

Zip

I designate the following person to receive any refund due at the completion of all deposit/refund projects:

Remedial Constructors Inc.

Name

5030 Shiloh Rd.

Street Address

Modesto CA.

City / Zip

95358

Property Owner Signature

James L. Pitzer

Date

1-9-95

Property Owner Name

JAMES L. PITZER

RETURN FORM TO:

Alameda County Environmental Health  
Environmental Protection Division  
1131 Harbor Bay Parkway, Rm. 250  
Alameda, CA 94502-6577 CC:430-4510

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 checked="" 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 type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Dept. of Veterans Affairs, Medical Center

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN	
A. OWNER'S TANK I.D. # <u>62-1</u>	B. MANUFACTURED BY: <u>unk</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unk</u>	D. TANK CAPACITY IN GALLONS: <u>2000</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.			
A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED
<input checked="" type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED
			<input checked="" type="checkbox"/> 3 DIESEL
			<input type="checkbox"/> 4 GASAHOL
			<input type="checkbox"/> 5 JET FUEL
			<input type="checkbox"/> 6 AVIATION GAS
			<input type="checkbox"/> 7 METHANOL
			<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED			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 type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN	
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER	
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING	<input type="checkbox"/> 4 PHENOLIC LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN	<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"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>unk.</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>unk.</u>	

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE				
A. SYSTEM TYPE	A U 1 SUCTION	A <u>U</u> 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A <u>U</u> 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A <u>U</u> 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input checked="" type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER

V. TANK LEAK DETECTION				
<input type="checkbox"/> 1 VISUAL CHECK	<input 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 checked="" 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) <u>JAN 95</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> 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) <u>Herman Dobkins</u>	DATE <u>1/3/95</u>
--	--------------------

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	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.  
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

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

93 OCT 13 AM 8:48

10/12/93 Soil borings were performed before  
 closure plan was submitted or approved

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH  
 470 - 27th Street, 2nd Floor  
 Oakland, CA 94612  
 Telephone: (415) 834-7777

These plans have been reviewed and found to be acceptable and essentially meet the requirements of the local health laws. Changes to the plans submitted to the Department are to ensure compliance with the local health laws. The project proposed to be performed for the purpose of any required final permit or other action. One copy of these accepted plans must be available to all contractors and officials involved with the removal. Any change or alterations of these plans must be submitted to the Department for review. Existing in place tanks must be closed in place if they do not meet the requirements of the local health laws. Notify this Department at least 48 hours prior to following required steps:

- Removal of Tank and Piping
- Sampling
- Final Inspection

Issuance of a permit to close in place with accepted plans and all applicable local health laws.

UNDERGROUND TANK CLOSURE PLAN

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

1. Business Name Livermore VA Hospital  
 Business Owner Veterans Administration
  2. Site Address 4951 Arroyo Road  
 city Livermore CA zip 94550 Phone (510)447-2560  
x6405
  3. Mailing Address 4951 Arroyo Rd  
 city Livermore VA zip 94550 Phone (510)447-2560
  4. Land Owner veterans Administration  
 Address 4951 Arroyo Rd city, state Livermore CA zip 94550
  5. Generator name under which tank will be manifested Not applicable,  
tanks will be closed in place
- EPA I.D. No. under which tank will be manifested Not applicable, tanks  
will be closed in place

6. Contractor KTW + Assoc.  
Address 43289 Osgood Rd.  
City Fremont CA Phone (510) 623-0480  
License Type\* A, C61D40, Haz Mat. ID# 572427

\*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 Certified Environmental Consulting  
Address 536 Stone Rd. Suite J  
City Benicia CA 94510 Phone (707) 745-0171

8. Contact Person for Investigation  
Name James H. Robbins Title Environmental Specialist  
Phone (707) 745-0171

9. Number of tanks being closed under this plan 2  
Length of piping being removed under this plan <10'  
Total number of tanks at facility 11

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 Erickson Environmental EPA I.D. No. CAD 009466392  
Hauler License No. 0019 License Exp. Date 5/31/94  
Address 255 Parr Blvd.  
City Richmond State CA Zip \_\_\_\_\_

b) Product/Residual Sludge/Rinsate Disposal Site  
Name Gibson Environmental EPA I.D. No. CAD 980883177  
Address 3 End of Commercial Rd  
City Bakersfield 93308 State CA Zip 93308



c) Tank and Piping Transporter *NOT APPLICABLE - Tanks to be closed in place*

Name \_\_\_\_\_ EPA I.D. No. \_\_\_\_\_  
Hauler License No. \_\_\_\_\_ License Exp. Date \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

d) Tank and Piping Disposal Site

Name \_\_\_\_\_ EPA I.D. No. \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

11. Experienced Sample Collector

Name James H Robbins  
Company Certified Environmental Consulting  
Address 356 Stone Rd Suite J  
City Benicia State CA Zip 94510 Phone (707) 745-0171

12. Laboratory

Name McCampbell Analytical  
Address 110 2nd Avenue South, #D7  
City Pacheco State CA Zip 94553  
State Certification No. J644

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 and piping will be closed in place, and filled with a cement slurry after being cleaned & flushed

~~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)		
2000 gallon	Diesel Fuel exclusively Installation date unknown tanks are currently in use	Soil, at ends of tank	within 2 feet of each end of the tank, 15' below ground and 3-4' below the tank bottom in native soil, 22' into native soil
5000 gallon	Diesel fuel exclusively Installation Date unknown Tanks are currently in use	soil	within 2 feet of each end of the tank, 15' below ground and 3-4' below the tank bottom in native soil, 22' into native soil
		Soil	under dispenser island

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.

piped directly to generator. Plan to <sup>rinse and</sup> cap in place all piping

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)  10 yds	Sampling Plan field screening with an OVM, a composite sample will be analyzed only if OVM readings or observations indicate a release of petroleum. For disposal purposes, soil must be analyzed! For reuse, 1 sample per 20 cu yd.

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
Diesel BTEX		GCFID 3550 8020	10 mg/kg 0.005 mg/kg

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Transamerica Insurance Group

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) \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Signature of Site Owner or Operator

Name (please type) RALPH W. KANIA, CHIEF, ENGINEERING SERVICE

Signature Ralph W. Kania

Date 10/7/93

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 2949

August 6, 1993

Mr. Jim Pitzer-Operations Forman  
Veterans Administration MC  
4951 Arroyo Rd  
Livermore, CA 94550

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

**Subject: Site Closure Report for VA Medical Center Fire Station,  
4951 Arroyo Road, Livermore 94550**

Dear Mr. Pitzer:

This office has completed review of Certified Environmental Consulting's Site Closure Report, date June 1993, for the above referenced site. This report documents work performed to date to assess the soil and groundwater condition which may have been affected by the unauthorized release of petroleum products from two underground storage tanks (USTs) removed from the fire station location. Case closure cannot be recommended at this time for the following reasons:

1. Only one set of groundwater elevation has been submitted. Without water elevation from each quarterly monitoring episode it cannot be determined if groundwater flow direction is relatively consistent or that it fluctuates.
2. If groundwater flows to the northwest, a monitoring well should be located nearer the former excavation pit, within 10 feet and in the verified downgradient direction.
3. The extent of contamination beneath the fire house has not been determined. Portable drill rigs are available, which can be used indoors/in confined areas, to help delineate the extent of soil and groundwater contamination.

Please provide additional groundwater elevation data and a workplan for additional investigation to further assess soil and groundwater conditions beneath the fire house. If another monitoring well is required, once installed, only water from the downgradient well need to be sampled and analyzed for TPH-D, BTEX, and TOC.

It is our understanding that other USTs at the VA Medical Center complex will be removed shortly. Be sure tank closure plans are submitted for approval prior to the start of excavation.

Mr. Jim Pitzer  
re: Site Closure Report-Fire House  
4951 Arroyo Rd., Livermore  
August 6, 1993

If you have any questions or comments, I can be reached at  
(510) 271-4530.

Sincerely,



eva chu  
Hazardous Materials Specialist

cc: Scott Parker, CEC, 536 Stone Rd., Suite 1, Benicia 94510  
files

vamedc3



**CERTIFIED  
ENVIRONMENTAL  
CONSULTING INC.**

July 14, 1993

REF: 93-173-1006

Ms. Eva Chu  
80 Swan Way  
Room 200

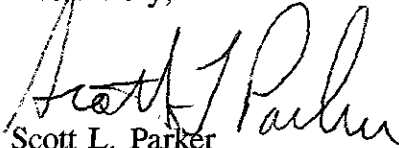
RE: Site Closure Report for the VA Medical Center Fire Station at 4951 Arroyo Road  
Livermore, CA.

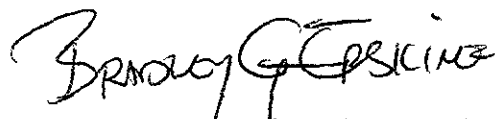
Dear Ms. Chu:

Enclosed is a copy of the report requesting case closure for Livermore VA, 4951 Arroyo Road, Livermore, CA. The report outlines work completed at the site including tank removal, soil excavation, monitor well installation and quarterly groundwater sampling results. Based on the work performed and soil and groundwater data, CEC would like to request case closure for the above referenced site.

Please let us know if you have any questions.

Yours truly,

  
Scott L. Parker  
Project Manager

  
Bradley G. Erskine Ph.D., R.G.  
Regional Vice President

Enclosures

LOP - RECORD CHANGE REQUEST FORM

printed:  
06/22/93

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 : 2949  
SITE NAME: U.S. Veterans Admin. Hospital      DATE REPORTED : 11/09/90  
ADDRESS : 4951 -0 Arroyo Rd.      DATE CONFIRMED: -0-  
CITY/ZIP : Livermore      94550      MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S      CONTRACT STATUS: 4      EMERGENCY RESP: -0-  
RP SEARCH: S      DATE COMPLETED: 04/27/92  
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: 04/27/92  
LUFT FIELD MANUAL CONSID: 2  
CASE CLOSED: -      DATE CASE CLOSED: -0-  
DATE EXCAVATION STARTED : 11/09/90      REMEDIAL ACTIONS TAKEN: -0-

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Marvin O' Rear  
COMPANY NAME: V A Medical Center  
ADDRESS: 4951 Arroyo Rd  
CITY/STATE: Livermore, C A 94550

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only      Case Progress Changes  
ANNPGMS \_\_\_\_\_ LOP \_\_\_\_\_ DATE \_\_\_\_\_      LOP \_\_\_\_\_ DATE \_\_\_\_\_





**Veterans  
Administration**

January 29, 1993

shd 2949

In Reply Refer To: 599/138

• Mrs. Eva Chu  
Hazardous Materials Specialist  
80 Swan Way, Room 200  
Oakland, CA 94612

4951 Arroyo Rd  
Livermore -

RE: Quarterly Groundwater Sampling Results for the VA Medical Center,  
Livermore, CA - Tank Removal at Fire Station

Dear Mrs. Chu:

Enclosed is a copy of the fourth quarterly groundwater monitoring results at this Medical Center. As all four (4) quarters of sampling have detected no contamination at this site, our facility will be submitting a letter of recommendation for U.S.T. case closure.

If additional information or assistance is warranted regarding this matter, please contact Mr. Jim Pitzer, Operations Foreman at 510-447-2560, extension 6405 or 6401.

Sincerely,

  
Ralph W. Kania  
Chief, Engineering Service

Enclosures

95 FEB 10 11 17 AM '93

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 2949

February 17, 1993

Mr. Jim Pitzer  
Livermore VA Medical Center  
4951 Arroyo Rd  
Livermore, CA 94550

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

**Subject: Site Closure for Livermore VA Medical Center,  
4951 Arroyo Rd., Livermore, CA 94550**

Dear Mr. Pitzer:

This office has completed review of the fourth quarter ground water monitoring report, dated January 25, 1993, prepared by Certified Environmental Consulting (CEC) for the above referenced site. A cover letter submitted by Mr. Ralph Kania with this report stated that the Livermore VA Medical Center will be submitting a letter of recommendation for case closure.

Attached please find a copy of the RWQCB outline showing the appropriate format and topics for the preparation of a final report summarizing the outcome of the site investigation.

As you are likely aware, site "closure" ultimately requires approval from the RWQCB. You are encouraged to evaluate the data generated to date in this project to identify any data gaps which may prevent this agency and the RWQCB from concurring with your bid for site closure. The final characterization and disposition of the stockpiled soil has not been adequately documented.

Please contact me if you have any questions.

Sincerely,

Eva Chu  
Hazardous Materials Specialist

enclosure

cc: Sumadhu Arigala, RWQCB  
Gil Jensen, Alameda County District Attorney's Office  
Scott Parker, CEC, 140 W. Industrial Wy., Benicia 94510  
Danielle Stefani, Livermore Fire Department  
Edgar Howell/files

VAMedC2

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



STID 2949

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

June 29, 1992

Marcelina Bell  
VA Medical Center  
4951 Arroyo Road  
Livermore, CA 94550

**Subject: Quarterly reports for the VA Medical Center  
4951 Arroyo Road, Livermore 94550**

Dear Ms. Bell:

This office has reviewed the file for the above referenced site with the following comments and requests:

1. When two abandoned underground storage tanks (USTs) were removed in November 1990, an unauthorized release of petroleum products was confirmed. Soil over-excavation removed much of the contaminated soil, leaving behind up to 6,500 parts per million (ppm) of total petroleum hydrocarbons as diesel (TPH-d) and 13,000 ppm total oil and grease (TOG) in the north wall beneath the fire station. Three monitoring wells were installed in January 1991. Quarterly groundwater monitoring and sampling began in November 1991. Samples have not been analyzed for TOG, though elevated levels of oil and grease were found in soil. Future sampling should include an analysis for TOG as well as TPH-d and BTEX.
2. Quarterly reports must describe the status of the investigation. Include details and results of all work performed, along with field observations and data, sampling protocol, water level data, chain of custody forms, laboratory results of all samples collected and analyzed, etc. Conclude reports with recommendations or plans for additional investigative work or remediation. All reports must be submitted under seal of a California Registered Geologist, Engineering Geologist or Civil Engineer.
3. It is unclear what has become of the 4,000+ cubic yards of excavated soil. Provide an update of the bioremediation process and sampling results which have been completed to date.

Marcelina Bell  
4951 Arroyo Rd, Livermore  
June 29, 1992

Page 2

4. In a letter to Mr. Marvin O'Rear, from Mr. Gil Wistar of this office, dated November 21, 1990, Mr. Wistar requested the submittal of a work plan for an initial subsurface investigation of hydrocarbon contamination discovered in soil borings around the existing USTs at the VA Medical Center. The work plan was to specifically address elevated hydrocarbons found in soil adjacent to two 750-gallon gasoline tanks. The submitted work plan was approved in April 5, 1991. To our knowledge, the VA Medical Center has not proceeded with this investigation. In a recent conversation you share with Ms. Eva Chu of this office, you indicated that plans to remove and replace all existing USTs are being developed, and that the approved site investigation work plan would be implemented shortly thereafter. We understand that you will be installing above-ground tanks to replace the removed USTs.

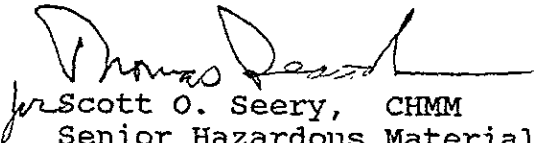
Prior to the removal of the USTs, this office will need to approve an Underground Tank Closure/ Modification Plan, a copy of which is enclosed with this letter. Submit this and the Above-Ground Tank Installation Plan, also included, for our review within 45 days of the date of this letter. Also include a time schedule for each phase of work at this site: tank removal, installation, and site contamination assessment.

Quarterly reports documenting all work performed should be sent to this office within 45 days upon completion of field activities. Copies of all reports and proposals must also be sent to Mr. Eddy So of the RWQCB.

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267(b). Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB.

If you have any questions regarding the contents of this letter or the status of your case, please contact Ms. Eva Chu at (510)271-4530.

Sincerely,

  
for Scott O. Seery, CHMM  
Senior Hazardous Materials Specialist

Marcelina Bell  
4951 Arroyo Rd, Livermore  
June 29, 1992

Page 3

enclosures

cc: Eddy So, RWQCB  
Gil Jensen, Alameda County District Attorney's Office  
Scott Parker, CEC, 140 W. Industrial Way, Benicia, CA 94510  
Danielle Stefani, Livermore Fire Department  
files

VAMedC

DATE: month 3 date 31, 1992

TO : Local Oversight Program

FROM: Don Hwang

SUBJ: Transfer of Eligible Oversight Case

Site name: Veterans Administration Medical Center

Address: 4951 Arroyo Rd city Z zip 94550

Closure plan attached?  Y  N DepRef remaining \$ \_\_\_\_\_

DepRef Project # 2076 STID # (if any) 2949

Number of Tanks: ~~11~~ removed?  Y  N Date of removal 11/9/90

Leak Report filed?  Y  N Date of Discovery 11/9/90

Samples received?  Y  N Contamination: Soil Groundwater 1,900 ppm Diesel 2 O+G 2  
6,500 22,000 250 440

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

Monitoring wells on site 3 Monitoring schedule? Y  N

LUFT category 1 2 3 \* H S C A R W G O

Briefly describe the following:

Preliminary Assessment 1/20/91

Remedial Action 1/20/91 contaminants

Post Remedial Action Monitoring \_\_\_\_\_

Enforcement Action \_\_\_\_\_

U.S. VA. Med. Center  
4951 Arroyo Rd  
Livermore  
Marvin O' Rear  
~~Marvin O' Rear~~  
cc: Marcelina Bell  
same address

water removed

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

April 5, 1991

Mr. Marvin E. O'Rear  
U.S. Veterans Administration Medical Center  
4951 Arroyo Rd.  
Livermore, CA 94550

Re: 599/00/138, underground storage tank investigation work plan  
for USVA Medical Center, Livermore

Dear Mr. O'Rear:

Thank you for submitting the Augeas Corp. proposal dated March 19, 1991. This office has completed its review of the work plan and concur with the approach presented for determining the extent of contamination in and around the remaining nine USTs. Please note that we may require monitoring wells if either of the following situations applies at any of the tank sites:

soil contamination that threatens groundwater quality is discovered; or

groundwater is found to be impacted.

We encourage the USVA to proceed on this investigation as soon as possible. If you have any questions about this letter, please contact the undersigned at 271-4320.

Sincerely,

A handwritten signature in cursive script that reads "Gil Wistar".

Gil Wistar  
Hazardous Materials Specialist

cc: Kent Murray, Augeas Corp. (2252 Fort Point Dr., Gold River, CA 95670)  
Howard Hatayama, DOHS  
Lester Feldman, San Francisco Bay RWQCB  
Rafat Shahid, Asst. Agency Director, Environmental Health files

A small handwritten mark or signature, possibly initials, located at the bottom of the distribution list.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



March 27, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Ms. Marcelina Bell  
U.S. Veterans Administration Medical Center  
4951 Arroyo Rd.  
Livermore, CA 94550

Re: **599/90C V599C-473/599C04011, groundwater assessment and soil treatment at USVA Medical Center, Livermore**

Dear Ms. Bell:

Thank you for submitting the Augeas Corp. Source Removal Report dated February 14, 1991. This office has completed its review of the report, and concur with the approach presented for soil treatment. However, in order for the USVA to reuse the excavated soil on-site following remediation, oil & grease and TPH-diesel levels in this soil must be reduced to 50 ppm and 10 ppm, respectively, or to the analytical method detection limit in each case, whichever is lower.

It is acceptable for the USVA to leave the small amount of contaminated soil beneath the fire station in place, as long as there is a monitoring well directly downgradient of this area to detect any groundwater degradation that might result from this soil. According to the Augeas report, MW-1 would appear to meet this requirement. However, should the direction of groundwater flow in this area change significantly, one or more additional monitoring wells may have to be installed.

Please be sure that this office and the Regional Water Quality Control Board in Oakland are apprised in a timely manner of work performed at the site or work intended to be performed. If you have any questions about this letter, please contact the undersigned at 271-4320.

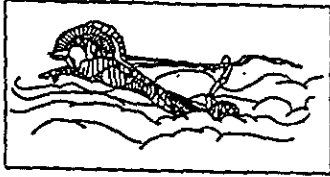
Sincerely,

Gil Wistar  
Hazardous Materials Specialist

cc: Kent Murray, Augeas Corp. (2252 Fort Point Dr., Gold River, CA 95670)

Howard Hatayama, DOHS  
Lester Feldman, San Francisco Bay RWQCB  
Rafat Shahid, Asst. Agency Director, Environmental Health files





**Augeas Corporation**  
ENVIRONMENTAL MANAGEMENT AND ENGINEERING SERVICES

MAR 22 AM 10:57

March 19, 1991

Gill Wistar  
Alameda County Environmental Health Department  
80 Swan Way, Ste. 200  
Oakland, CA 94621

Dear Mr. Wistar:

**Re: Underground Storage Tank Investigation Workplan - Veterans Affairs Medical Center - Livermore, California**

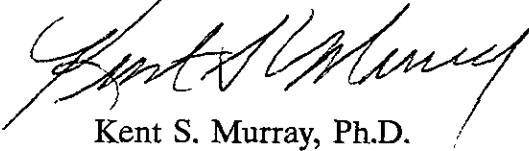
Augeas Corporation is forwarding for your review and consideration the following proposal to conduct an underground storage tank (UST) investigation at the VA Medical Center, 4951 Arroyo Road, California. The investigation proposed herein should accommodate all regulatory concerns. Its purpose is to determine whether any of the DVA Medical Center's nine remaining USTs have leaked resulting in soil or groundwater contamination. Since this investigation is only of an exploratory nature, no detailed assessment work will be performed at this time if contamination is discovered. Instead, a summary report will be prepared which will briefly summarize our findings, analytical results of soil samples collected, and specific recommendations concerning removal of tanks and further assessment work.

Please note that detailed site drawings of each of the tank locations have not been included in this workplan. These drawings are not available from the DVA and will have to be prepared at the time of the investigation. Sketches of the tank locations are provided in the attached Appendix. We ask that you approve the workplan in concept, at this time. If you have specific concerns or would like to see additional work performed, we will be happy to incorporate your comments into our investigation.

Gill Wistar  
March, 19, 1991  
Page 2

We have been informed by the DVA that the work will not be initiated until formal written authorization by you has been received. If you have any questions concerning the proposed investigation, please feel free to call me at your earliest convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Kent S. Murray". The signature is fluid and cursive, with a large initial "K" and "M".

Kent S. Murray, Ph.D.  
Project Manager

KSM:cal  
Attachment



**Veterans  
Administration**

February 14, 1991

91 FEB 15 11:10:58

In Reply Refer To: 599/90C  
V599C-473/599C04011


Mr. Gil Wistar  
Hazardous Material Specialist  
Department of Environmental Health  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, CA 94621

Dear Mr. Wistar:

Enclosed for your review is the Source Removal Report submitted by Augeas Corporation. This is for the bioremediation of contaminated soil from tank removal project being performed by SEMCO.

If you have any questions, I may be reached at 415-447-2560 x 6165.

Sincerely,

  
Marcelina Bell  
Contracting Officer

Enclosure

ACCOUNT OFFICE:

Mail Room 01, 1401 ...  
1901 ...  
... 94 11 94 07

REQUISITION SERVICE:  
ENGINEER (100)  
S... THE OPERATIONS F

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
28 South Way, Room 202  
Oakland CA 94612

SHIP TO:  
CHIEF, J A M M SLD ...  
V.A. Medical Center  
WAREHOUSE BLDG. AG  
4951 ARROYO RD  
LIVERMORE, CA 94550

DELIVERY HOURS:  
8am to 4pm

FOR POINT OF DESTINATION	FEDERAL LETTER	MAIL INVOICE TO:
GOVT BL #:		FISCAL SERVICE (00)
PURCH USE ORDER		VA MEDICAL CENTER
DELIVER ON/BEFORE 1/11/93	CONTRACT:	4951 ARROYO ROAD
DISCOUNT TERM: NET30		LIVERMORE, CA 94551
SHIP VIA:		

ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
1	OVERSEE UNDERGROUND TANK SOIL BORINGS AND TANK INSPECTIO.L	1	JR	520.00	520.00

FOR INFORMATION, PLEASE CONTACT JIM MITZER, OPERATIONS FOREMAN,  
AT 415-447-2560 X 6765.

V.A. TRANSACTION NUMBERS:  
599-91-1-030-0049

AUTHORITY FOR PURCHASE	F.O. NO.	FO DATE	TOTAL:	500.00
FAR 13	599-010146	12/21/90		
CONTRACTING OFFICER	DATE SIGNED	PHONE		
ES/ MARCELINA BELL	12/21/90 08:41	415-447-2560, 6165		

*Marcelina Bell*

FUND CERTIFICATION: The supplies/services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been obligated.

APPROPRIATION: 3610140.001.01-032	OBBLIGATED BY: /ES/ CORINNE D. EASTMAN	DATE: 11/26/91
OFF CENTER: 651170	SUBACCOUNT1: 2542	SUBAMOUNT1: 500
NURSE CODE: SUPPLY-2 FISCAL-3	SUBACCOUNT2:	SUBAMOUNT2:

ISSUING OFFICE:

Veterans Administration Medical Center  
4951 ARROYO ROAD  
LIVERMORE, CA 94550

REQUESTING SERVICE:

ENGINEERING (138)  
DEPT. TO: OPERATIONS FOREMAN

VENDOR:

DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS PROGRAM  
88 SWAN WAY, ROOM 200  
OAKLAND CA 94621

SHIP TO:

CHIEF, A & M M SVC C10146  
V.A. Medical Center  
WAREHOUSE BLDG. 65  
4951 ARROYO RD  
LIVERMORE, CA 94550

DELIVERY HOURS:  
8am to 4pm

FOB POINT: DESTINATION

GOVT BL #:

PURCHASE ORDER

DELIVER ON/BEFORE 1/11/91

DISCOUNT TERM: NET30

SHIP VIA:

PROPOSAL: LETTER

CONTRACT:

MAIL INVOICE TO:

FISCAL SERVICE (M4)  
VA MEDICAL CENTER  
4951 ARROYO ROAD  
LIVERMORE, CA 94550

ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
1	OVERSEE UNDERGROUND TANK SOIL BORINGS AND TANK INSPECTION.	1	JB	500.00	500.00

FOR INFORMATION, PLEASE CONTACT JIM FITZER, OPERATIONS FOREMAN,  
AT 415-447-2560 X 6405.

V.A. TRANSACTION NUMBERS:

599-91-1-030-0069

01771  
05:01/17  
11/10

AUTHORITY FOR PURCHASE

P.O. NO.

PO DATE

TOTAL: 500.00

NR 13

599-C10146

12/24/90

ACTING OFFICER

DATE SIGNED

PHONE

MARCELINEA BELL

12/24/90 10:41

415-447-2560, 6165

*Marcelina Bell*

FUND CERTIFICATION: The supplies/services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been obligated.

APPROPRIATION: 3610160.001.01-030

OBLIGATED BY: /ES/ CORINNE C. EASTMAN DATE: 12/26/90

CENTER: 851100

SUBACCOUNT1: 2542

SUBACCOUNT1: 530

FE CODE: SUPPLY-2 FISCAL-3

SUBACCOUNT2:

SUBACCOUNT2:



**Veterans  
Administration**

599/90C

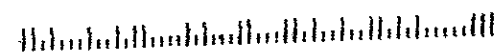
**Medical Center**  
Livermore, California 94550

Official Business  
Penalty for private use  
\$300

Department of Environmental Health  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, CA 94621



POSTAGE AND FEES PAID  
VETERANS ADMINISTRATION  
VA-601



ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

December 20, 1990

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Mr. Marvin O'Rear  
Medical Center Director  
USVA Medical Center  
4951 Arroyo Rd.  
Livermore, CA 94550

**Re: Necessity for carrying out specific work tasks at the USVA  
Medical Center, Livermore**

Dear Mr. O'Rear:

During and following the removal of two underground tanks at the above facility, analytical results of soil samples indicated hydrocarbon levels well above regulatory thresholds of 100 ppm. These thresholds establish contaminant levels above which the San Francisco Bay Regional Water Quality Control Board (RWQCB) requires further site work. Therefore, the VA Hospital must now initiate further investigation and cleanup actions as outlined below.

This office will be the lead agency overseeing environmental investigation and cleanup activities at the site. The RWQCB is currently unable to manage the large number of leak cases within Alameda County, and has therefore delegated this authority to our office. However, the VA Hospital must keep the Water Board apprised of all actions taken to characterize and remediate contamination at this site, because the Board retains the ultimate responsibility for ensuring protection of waters of the state.

As mentioned above, additional work must be conducted to determine the extent of soil and groundwater contamination that has resulted from the leaking tank systems. The information gathered by this characterization will be used to assess the need for additional actions at the site. The conceptual work plan submitted by Augeas Corp. for soil removal and treatment (more detail on soil treatment should be provided to this office) satisfies the need for additional characterization/remediation. In addition, groundwater beneath the site needs to be characterized and monitored on an ongoing basis, to see what effects, if any, the contaminated soil has had on it.

Until cleanup is complete, please submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports must include information pertaining to further investigative results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material.

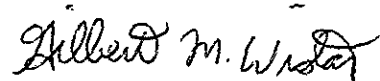
Mr. Marvin O'Rear  
December 20, 1990  
Page 2 of 2

Please note that the deposit of \$558 submitted to this office with the underground tank closure application has nearly been exhausted, and that an additional deposit of \$375 is necessary for the county to continue oversight of remediation. Please remit a draft in this amount to our office as soon as possible. Hazardous materials specialists charge at a rate of \$60/hour for work on all projects such as yours.

Because we are overseeing this site under the designated authority of the Water Board, this letter constitutes a formal request for technical reports, per Sec. 13267(b) of the California Water Code. Failure to respond in a timely manner could result in civil liabilities under the Water Code of up to \$1,000 per day. Other violations of California law may also be cited.

If you have any questions about this letter or about remediation requirements established by the RWQCB, please contact the undersigned at 271-4320.

Sincerely,



Gil Wistar  
Hazardous Materials Specialist

cc: Kent Murray, Augeas Corp. (2252 Fort Point Dr., Gold River, CA 95670)

Howard Hatayama, DOHS

Lester Feldman, San Francisco Bay RWQCB

Gil Jensen, District Attorney, Alameda County Consumer and Environmental Protection Division

Rafat Shahid, Asst. Agency Director, Environmental Health files





# 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 AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE. <i>[Signature]</i> SIGNED: _____ DATE: 11-15-90
REPORT DATE 1 <u>M</u> 1 <u>M</u> 1 <u>D</u> 3 <u>D</u> 9 <u>Y</u> 0 <u>Y</u>	CASE # _____	

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <b>James L. Pitzer</b>		PHONE <b>(415) 447-2560 6405</b>	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 <b>DVA MEDICAL CENTER</b>	
	ADDRESS <b>4951 Arroyo Road Livermore CA 94550</b>			

RESPONSIBLE PARTY	NAME <b>James L. Pitzer</b> <input type="checkbox"/> UNKNOWN		CONTACT PERSON <b>Same</b>	PHONE <b>Ext. 6405 (415) 447-2560</b>
	ADDRESS <b>4951 Arroyo Road Livermore CA 94550</b>			

SITE LOCATION	FACILITY NAME (IF APPLICABLE) <b>DVA MEDICAL CENTER</b>		OPERATOR <b>DVA</b>	PHONE <b>(415) 447-2560</b>
	ADDRESS <b>4951 Arroyo Road Livermore CA 94550</b>			
	CROSS STREET			

IMPLEMENTING AGENCIES	LOCAL AGENCY <b>Alameda Co. D.E.H.</b>	AGENCY NAME	CONTACT PERSON <b>Gill Wistar</b>	PHONE <b>(415) 271-4320</b>
	REGIONAL BOARD			PHONE <b>( )</b>

SUBSTANCES INVOLVED	(1) NAME <b>#5 fuel oil</b>	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)	<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 1 <u>M</u> 1 <u>M</u> 0 <u>D</u> 9 <u>D</u> 9 <u>Y</u> 0 <u>Y</u>	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER _____
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <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 checked="" type="checkbox"/> TANK LEAK <input 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 checked="" type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____
---------------	---	---

CASE TYPE	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

REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)	<input 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) <b>None. Assessing extent of contamination.</b>		

COMMENTS	
	<b>Tanks have been out of service over 25 years.</b>

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

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH  
**Hazardous Materials Inspection Form**

white -env.health  
yellow -facility  
pink -files

II, III

Site ID # \_\_\_\_\_ Site Name USVA Med. Center Today's Date 11/9/90

**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) 25524(c)
- 14. OffSite Conseq. Assess. 25534(d)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(j)
- 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 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. Precs 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

Site Address 4951 Arroyo Rd.  
City Fremont Zip 94550 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

*gasoline tanks undergoing bi-weekly gauging*

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

**Comments:**

*Removal of 2 12,000-gallon tanks that contained #5 fuel oil. Removal process has been going on for several days, because of difficulty getting tanks out of the ground. There is a gas main running across the top of the tanks, and a concrete vault on the other end of the tanks that have forced the contractor to cut the tanks into thirds prior to their removal. Both tanks are very old, of riveted steel construction, and have holes.*

*Remaining pieces of the tanks to be removed this afternoon, after which the contractor will collect three soil samples from beneath each tank.*

*Because of holes (plugs) in tanks, I gave an Unauthorized Release Report to the Operations Foreman. This needs to be completed and returned to the above address within 5 days.*

*Also, soil boring results around gasoline tanks are a source of concern, and indicate subsurface releases that require further investigation.*

Contact: \_\_\_\_\_  
Title: \_\_\_\_\_  
Signature: JAMES L. FITZER  
*Operations Foreman*

Inspector: \_\_\_\_\_  
Signature: Gilbert M. Wister

## GENERATOR'S PROGRAM

BillID	Year/ Status	Owner's Name Mailing Address	Company Name Premise Address
H31109	90 C	Bob Young #Emp: 25 4749 Las Positas Rd. # L BCode: 23 Livermore, CA 94550	Motivational Systems, Inc. 4749 -L Las Positas Rd Livermore, CA 94550
H31110	90 C	Ernie Gonzalez #Emp: 6 542 Mcgraw Rd. BCode: 21 Livermore, CA 94550	Mission City Rebar, Inc. 542 Mcgraw Rd Livermore, CA 94550
H31111	0 C	Greg Coyne #Emp: 1 2210 Southshore Ctr. #1 BCode: 20 Alameda, CA 94501	Vasu's One Hour Martinizing 2210 Southshore Ctr #1 Alameda, CA 94501
H31113	0 C	Hexcell Corporation #Emp: 51 11711 Dublin Blvd. BCode: 24 Dublin, CA 94568	Hexcel Central R&D 11711 Dublin Blvd Dublin, CA 94568
H31114	91 C	Connie Ho #Emp: 2 35754 Fremont Blvd. BCode: 20 Fremont, CA 94536	Dry Clean U.S.A. 35754 Fremont Blvd Fremont, CA 94536
H31115	90 C	Tim Johnson #Emp: 8 1200 Portola Ave. BCode: 21 Livermore, CA 94550	Chevron 1200 Portola Ave Livermore, CA 94550
H31116	90 C	Oil Changers Corp. #Emp: 6 4511 Willow Rd. Suite 1 BCode: 21 Pleasanton, CA 94588	Oil Changers #304 1247 Portola Ave Livermore, CA 94550
H31117	0 C	-0- #Emp: 20 5151 Port Chicago Hwy. BCode: 23 Concord, CA 94520	Conco Cement Co. 51 El Charo Rd Pleasanton, CA 94566
H31118	91 C	James Rhoades #Emp: 4 140 J St. BCode: 20 Fremont, CA 94536	J & K Painting Co. 140 J St Fremont, CA 94536
H31119	0 C	Juan M Andrade #Emp: 1 6878 Village Pkwy. BCode: 20 Dublin, CA 94568	Dublin Transmission Specialist 6878 Village Pkwy Dublin, CA 94568
H31120	91 C	Bill Solano #Emp: 6 6920 Village Pkwy. BCode: 21 Dublin, CA 94568	Dublin Auto Body & Diagnostic 6920 Village Pkwy Dublin, CA 94568
H31121	0 C	Patrick Costello #Emp: 28 7544 Dublin Blvd. BCode: 23 Dublin, CA 94568	Crown Chevrolet 7544 Dublin Blvd Dublin, CA 94568

SEMCO  
James C. Bateman Petroleum Services, Inc.  
General & Engineering Contractors  
License No. 449864 A,B & C-61

1741 Leslie St.  
San Mateo, CA 94402  
(415) 572-8033

431 W. Hatch Road  
Modesto, CA 95351  
(209) 524-9653

\*\*\*\*\*  
\*\*\*\*\*

DATE: 10/23/90 TIME: 12:15

To: Alameda County FAX # 568-3706

Annis Byrne  
Gil Wistar

SEMCO  
1741 LESLIE ST.  
SAN MATEO, CA 94402

FAX# (415) 572-9734

SENDER: Rhonda Kuper

TOTAL NUMBER OF PAGES INCLUDING COVER: 3

COMMENTS: Per your request  
Insurance Certificate  
Responsible party

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL ME AT (415) 572-8033.

10/23/90

Dennis,

Per our conversation  
Person & facility responsible:

VA Medical Center  
4951 Arroyo Road  
Livermore, CA 94550

attn: Jim Pitzer

Thanks  
Rhonda

# ACORD CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

9/25/90

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.

Agent Ins. Agency

1915

San Jose, Ca. 95361

## COMPANIES AFFORDING COVERAGE

COMPANY A American Star Ins. Co.

COMPANY B Fairmont Ins. Co.

COMPANY C

COMPANY D

COMPANY E

### INSURED

SEARCO  
431 W. Hatch Rd.  
Redondo, Ca. 95351

### COVERAGES

WE CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD AND 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 EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

CO LYR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY CLAIMS MADE OR OCCUR. OWNER'S & CONTRACTOR'S PROT.	AMG1-509826	10/1/90	10/1/91	GENERAL AGGREGATE \$2,500,000 PRODUCTS-COMP/OP AGG \$1,000,000 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
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS GARAGE LIABILITY				COMBINED SINGLE LIMIT \$500,000 BODILY INJURY (Per person) \$50,000 BODILY INJURY (Per accident) \$50,000 PROPERTY DAMAGE \$50,000
	EXCESS EXCEEDS OR THAN UMBRELLA FORM				EACH OCCURRENCE \$500,000 AGGREGATE \$500,000
	EMPLOYERS' COMPENSATION AND EMPLOYERS' LIABILITY	80189741	9/5/90	9/5/91	STATUTORY LIMITS EACH ACCIDENT \$1,000,000 DISEASE-POLICY LIMIT \$1,000,000 DISEASE-EACH EMPLOYEE \$2,000,000

OTHER

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

All California Operations

### CERTIFICATE HOLDER

COUNTY OF ALAMEDA  
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 \_\_\_\_\_ 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

*[Signature]*

**ROUTING AND TRANSMITTAL SLIP**

Date

<b>TO:</b> (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1.		
2. Ms. Chen		
3. Alameda County Haz. Mat.		
4. Specialist - <del>80</del> Swan Way <sup>Rm</sup> 200		
5. Oakland, CA 94612		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	<input checked="" type="checkbox"/> For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

**REMARKS**

Enclosed, please find the underground Tank Closure Plan. If you require any additional information to call the Engr. Service @ 570 447-2560, X6401.  
 Jim Lopez X6405

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

<b>FROM:</b> (Name, org. symbol, Agency/Post)	Room No.—Bldg.
Engr. Service	Phone No.

5041-102

ACCEPTED 10/23/90

DEPARTMENT OF ENVIRONMENTAL HEALTH

470 - 27th Street, Third Floor

Oakland, CA 94612

Telephone: (415) 874-7737

*gmas*

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 in accordance with Department are to ensure compliance with State and local laws. The project proposed here is subject to the issuance of any required building permits for any part of the removal. One copy of these accepted plans must be on file and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

\_\_\_\_ Removal of Tank and Piping

\_\_\_\_ Sampling

\_\_\_\_ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable building regulations.

THERE IS A FINANCIAL PENALTY TO NOT OBTAINING THESE PERMITS

*All piping to be removed with tanks*

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 # 577076  
Fee Paid \$538.00  
Date 10/9/90

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

- Business Name VA MEDICAL CENTER  
Business Owner U.S. GOVERNMENT
- Site Address 4951 ARROYO ROAD  
city LIVERMORE zip 94550 Phone 447-2560
- Mailing Address 4951 ARROYO ROAD  
city LIVERMORE zip 94550 Phone 447-2560
- Land Owner U.S. GOVERNMENT  
Address 4951 Arroyo Rd. city, State Livermore CA zip 94550
- EPA I.D. No. 336-000-7295
- Contractor Semco  
Address 1741 Leslie Street  
city SAN MATEO, CA 94402 Phone 972-8033  
License Type AB, C-61 ID# 449864
- Consultant N/A  
Address \_\_\_\_\_  
City \_\_\_\_\_ Phone \_\_\_\_\_



8. Contact Person for Investigation

Name Chuck Kiper Title Vice-President  
Phone 572-8033

9. Total No. of Tanks at facility 2

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

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Transporter

Name Allied Petroleum EPA I.D. No. CAD 98065675128  
Address P.O. Box 193  
city HILLMAR State CA zip 95327

b) Rinsate Transporter

Name Allied Petroleum EPA I.D. No. CAD 98065675128  
Address P.O. Box 193  
city HILLMAR State CA zip 95327

c) Tank Transporter

Name ERICKSON EPA I.D. No. CAD 009466392  
Address 255 Paer Blvd.  
city Richmond State CA zip 94801

d) Tank Disposal Site

Name ERICKSON EPA I.D. No. CAD 009466392  
Address 255 Paer Blvd.  
city Richmond State CA zip 94801

e) Contaminated Soil Transporter

Name RHT TRUCKING EPA I.D. No. CAD 982471591  
Address 1336 Pauline Ave.  
city MODESTO State CA zip 95351

12. Sample Collector

Name Chuck Kiper - Vice President  
 Company Semco  
 Address 1741 Leslie St.  
 city SAN MATEO state CA zip 94402 Phone 572-8033

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
12,000 12,000	HEATING OIL ↓	SOIL/WATER	2 Feet below EACH END OF TANK

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

If yes, describe. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

If yes, describe. HIGH PRESSURE HOT WATER DETERGENT  
WASH ; 20 lbs per 1000 GALLONS DRY ICE ;  
FINAL Purge with Air

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

16. Laboratories

Name SUPERIOR ANALYTICAL  
 Address 1555 PARR Blvd. Unit 1  
 city SAN FRANCISCO state CA zip 94124  
 State Certification No. 220 & 319

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
<p>TPH-D BTXE</p>	<p>GCFID (<sup>3550</sup><del>5030</del>) 8020 or 8240</p>	

18. Submit Site Safety Plan

19. Workman's Compensation: Yes [] No [ ]

Copy of Certificate enclosed? Yes [] No [ ]

Name of Insurer FAIRMONT

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) Chuck Kiper  
Signature Chuck Kiper  
Date 10/3/90

Signature of Site Owner or Operator

Name (please type) MARCELINA BELL, Contracting Officer  
Signature Marcelina Bell  
Date 10/4/90

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).
5. A copy of your approved plan must be sent to the landowner.
6. Triple rinse means that:
  - a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.
  - b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.
  - c) Tank should be labelled as "tripled rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A

SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

## INSTRUCTIONS

### 2. SITE ADDRESS

Address at which closure or modification is taking place.

### 5. EPA I.D. NO.

This number may be obtained from the State Department of Health Services, 916/324-1781.

### 6. CONTRACTOR

Prime contractor for the project.

### 7. OTHER

List professional consultants here.

### 12. SAMPLE COLLECTOR

Persons who are collecting samples.

### 13. SAMPLING INFORMATION

Historic contents - the principal product(s) used in the last 5 years.

Material sampled - i.e., water, oil, sludge, soil, etc.

### 16. LABORATORIES

Laboratories used for chemical and geotechnical analyses.

### 17. CHEMICAL METHODS:

All sample collection methods and analyses should conform to EPA or DHS methods.

Contaminant - Specify the chemical to be analyzed.

Sample Preparation Method Number - The means used to prepare the sample prior to analyses - i.e., digestion techniques, solvent extraction, etc. Specify number of method and reference if not an EPA or DHS method.

Analysis Method Number - The means used to analyze the sample - i.e., GC, GC-MS, AA, etc. Specify number of method and reference if not a DHS or EPA method.

#### NOTE:

Method Numbers are available from certified laboratories.

### 18. SITE SAFETY PLAN

A plan outlining protective equipment and additional specialized personnel in the event that significant amount of hazardous materials are found. The plan should consider the availability of respirators, respirator cartridges, self-contained breathing apparatus (SCBA) and industrial hygienists.

19. ATTACH COPY OF WORKMAN'S COMPENSATION

20. PLOT PLAN

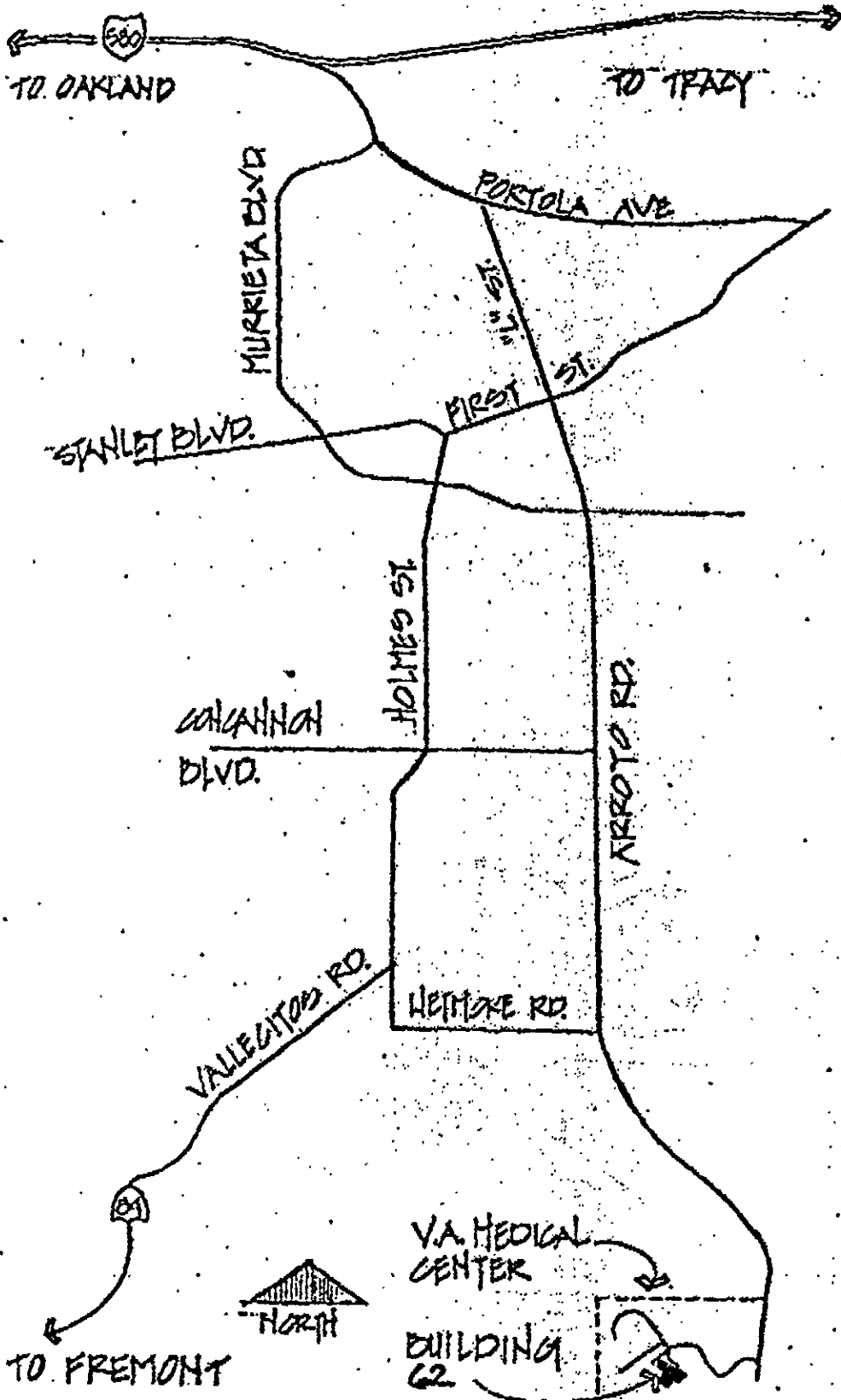
The plan should consists of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale
- b) North Arrow
- c) Property Line
- d) Location of all Structures
- e) Location of all relevant existing equipment including tanks and piping to be removed
- f) Streets
- g) Underground conduits, sewers, water lines, utilities
- h) Existing wells (drinking, monitoring, etc.)
- i) Depth to ground water
- j) All existing tanks in addition to the ones being pulled

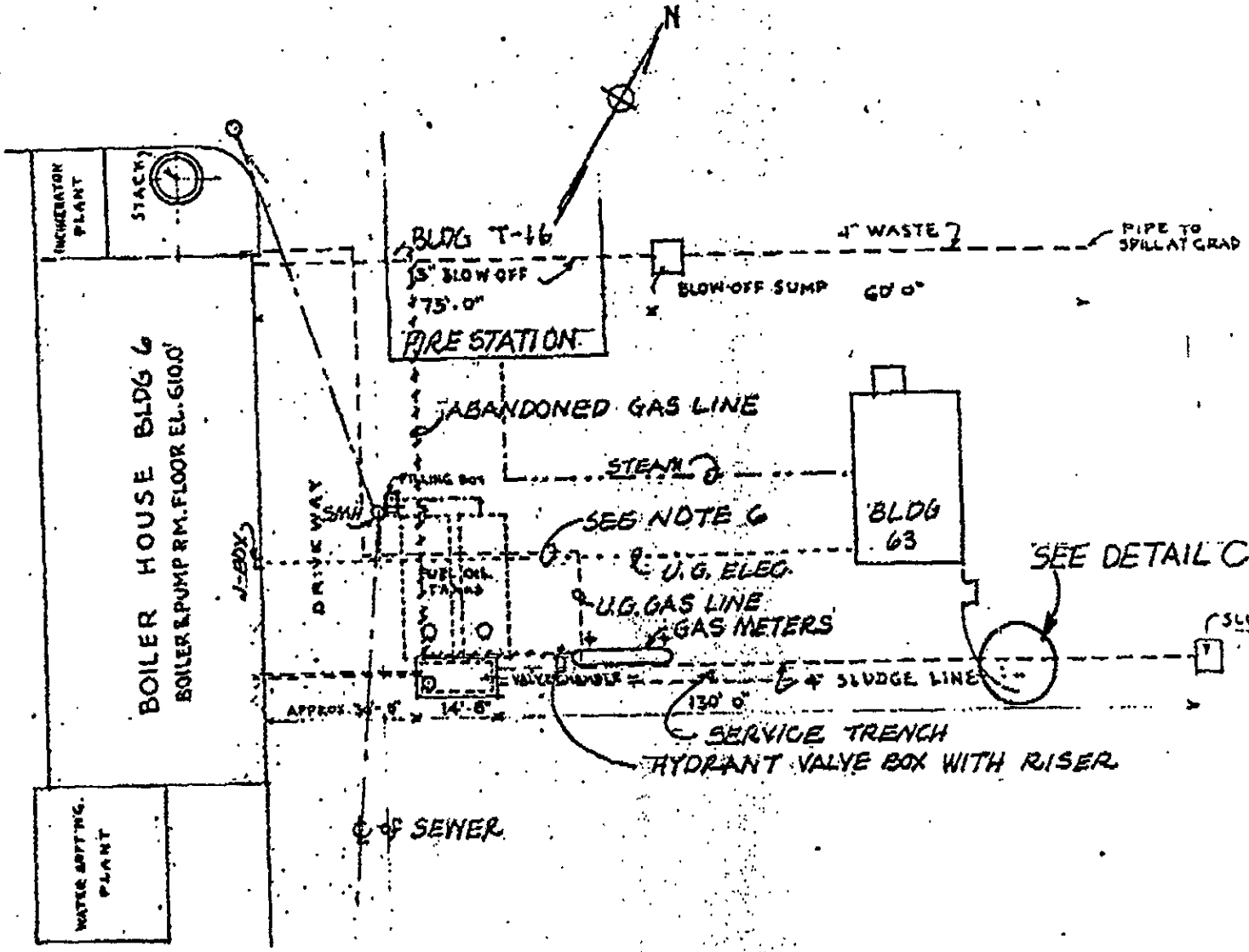
rev. 9/88  
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LOCATION MAP



**PLOT PLAN**  
SCALE 1" = 30'

- SMH SEWER MAN HOL
- + TREE
- o RISER

ASPHALT

24" MANHOLE

EXISTING ROAD SURFACE

# ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

9/6/9

**PRODUCER**

R. L. Stewart Ins. Agency  
 P.O. Box 1515  
 Oakdale, Ca. 95361

**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**

**INSURED**

Semco, Inc.  
 431 West Hatch Rd.  
 Modesto, Ca. 95351

COMPANY LETTER **A**

Fairmont Ins. Co.

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 LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	<b>GENERAL LIABILITY</b>				GENERAL AGGREGATE \$
	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG. \$
	CLAIMS MADE OCCUR.				PERSONAL & ADV. INJURY \$
	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$
					FIRE DAMAGE (Any one fire) \$
					MED. EXPENSE (Any one person) \$
	<b>AUTOMOBILE LIABILITY</b>				COMBINED SINGLE LIMIT \$
	ANY AUTO				BODILY INJURY (Per person) \$
	ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
	SCHEDULED AUTOS				PROPERTY DAMAGE \$
	HIRED AUTOS				
	NON-OWNED AUTOS				
	GARAGE LIABILITY				
	<b>EXCESS LIABILITY</b>				EACH OCCURRENCE \$
	UMBRELLA FORM				AGGREGATE \$
	OTHER THAN UMBRELLA FORM				
<b>A</b>	<b>WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY</b>	WCN80480649	9/5/90	10/19/90	STATUTORY LIMITS EACH ACCIDENT \$1,000,000 DISEASE-POLICY LIMIT \$1,000,000 DISEASE-EACH EMPLOYEE \$1,000,000
	<b>OTHER</b>				

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

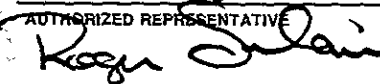
All California Operations

**CERTIFICATE HOLDER**

County of Alameda  
 7801 Oakport St.  
 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 10 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  


SEMCO

HEALTH & SAFETY

PLAN

## HEALTH MONITORING AND SAFETY PROGRAM

To assure the health and safety of employees involved in hazardous waste operations, Semco Inc. has developed and implemented a Health and Safety Program.

This plan is based on Standard Operating Safety Guides (USEPA) and The Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities (NIOSH/OSHA/USGC/EPA).

Semco inc. employees must receive health and safety training prior to commencing work at sites where hazardous materials may be present and will be provided with periodic follow-up training as appropriate. Health and Safety training will include;

- \* Health Monitoring Program
- \* Review of General Chemical & Mechanical Dangers
- \* Emergency Response
- \* Decontamination
- \* Documentation and Record Keeping
- \* Updating of Health and Safety Plan
- \* Reference Guides for Hazardous Materials

When appropriate, a site-specific safety plan will be implemented and will include the following:

- \* Site history
- \* Inventory of known chemicals ( updated as possible)
- \* Project organization
- \* Work Plan review
- \* Project documentation
- \* Review of site safety rules ( site safety rules will be updated as new information is available or after an accident of implementation of contingency plan )
- \* Review of decontamination procedures
- \* Proper use and care of personal protective equipment
- \* Proper calibration and use of monitoring equipment
- \* Emergency response procedures

## 1.0 HEALTH MONITORING PROGRAM

All drilling personnel and field staff must be enrolled in the Semco Inc. Health Monitoring Program, developed in conjunction with Industrial Medical Clinics of Anaheim, CA. This program consists of an initial medical examination to establish the employee's general health profile and provides important baseline laboratory data for comparative study. The scope of the initial comprehensive physical examination and laboratory testing routine is detailed in Table 1-0. Follow-up examinations are completed for all personnel enrolled in the health monitoring program on a semi annual basis, or more frequently if project assignments warrant testing following specific field activities. The level of potential exposure that Semco personnel are subjected to in carrying out hazardous waste work assignments are recorded by the individual and reviewed weekly by the site supervisor. The California Poison Control Center maintains a comprehensive reference library containing the current information concerning the carcinogenic, mutagenic, teratogenic and toxic characteristics of hazardous wastes.

### 1.1 REVIEW OF EXPOSURE SYMPTOMS

Symptoms of exposure to hazardous materials for each site will be reviewed in order to indicate to personnel the recognized signs of possible exposure to those materials. This information will be supplemented with a discussion of the need for objecting in the personal health assessment to account for normal reaction to stressful situations. The Site Safety Officer ( the lead driller) will be watchful for outward evidence of changes in worker health. These outward symptoms may include skin irritations, skin discoloration, eye irritability, reduced libido, intolerance to heat or cold, or loss of appetite. Employees will routinely be asked to assess their general state of health during individual projects. At the end of each week, employees will briefly describe minor injuries and chemical experience (exposure potential at each job site). This description will be turned in with time records, reviewed by the corporate safety officer and filed in the employees medical file.

TABLE 1-0

#### HEALTH MONITORING PROGRAM INITIAL EXAMINATION

##### Physical Examination

- \* medical history survey
- \* medical examination
- \* vision; near and distance vision, color vision
- \* hearing; audiometry
- \* radiologic: PA:LAT
- \* electrocardiogram: 12 lead
- \* spirometry

##### Lab Studies

- |                      |                   |                    |
|----------------------|-------------------|--------------------|
| * hematology         | * blood chemistry |                    |
| - red blood count    | - SMA 17          | - urinalysis       |
| - white blood count  | - electrolytes    | - Papanicolaou     |
| - hemoglobin         | - creatinine      | - cholinesterase   |
| - hematocrit         | - SGPT            | level              |
| - platelet           | - carbon dioxide  | - thyroid function |
| - indices            | - cholesterol     | test T3/T4         |
| - sedimentation rate | - serum iron      |                    |

## 2.0 REVIEW OF GENERAL CHEMICAL AND MECHANICAL DANGER

A set of standard onsite safety practices will be enforced during site activities to reduce the risks associated with handling contaminated materials and dangers inherent with working near heavy machinery. These safety practices are divided into three categories: personal precautions, rig safety and general procedures and operations.

### 2.1 PERSONAL PRECAUTIONS

- 2.1.1 Any practice which increases the probability of hand-to-mouth transfer and ingestion of contaminated material will be prohibited in any area designated contaminated. Prohibited activities include eating, drinking, chewing gum or tobacco and smoking.
- 2.1.2 Hands and face will be thoroughly washed upon leaving the work area and before eating, drinking or any other activities.
- 2.1.3 Any excess facial hair which interferes with proper fit of the mask to face seal will be prohibited on personnel required to wear respirator protection. (while respirators are not typically required, work will be prepared to upgrade to Level "C" protection requiring the use of respirators.)
- 2.1.4 Unnecessary contact with contaminated or suspected contaminated surfaces will be avoided. Workers will be instructed to avoid walking through puddles, mud, or other discolored surfaces: kneeling on the ground; and leaning, sitting, or placing equipment on drums, containers, vehicles or the ground.
- 2.1.5 Medicine and alcohol can increase adverse effect from exposure to toxic chemicals. Therefore, prescribed medication will not be taken by personnel during field activities. Also, alcoholic beverage intake will not be tolerated immediately before or during field work.
- 2.1.6 The effects of heat stress in all personnel will be monitored by the Health and Safety Officer. Appropriate measures will be taken to remove any potential victim of heat stress from the work area, provide cooling to the body and provide plenty of liquids to replace body fluids.

### 2.2 RIG SAFETY

Semco, Inc. has incorporated the National Drilling Federation's (NDF/DCDMA/NDCA) "Drilling Safety Guide" as our mechanical hazards and rig safety guide. This booklet is required reading for all field personnel.



## 2.3 GENERAL PROCEDURES AND OPERATIONS

2.3.1 Entrance and exit to the site will be planned and emergency escape routes will be determined. Before drilling begins a working phone will be located and the most expeditious route to a hospital established. Site Specific Hazards will be discussed and the clients safety requirements will be adopted. Personnel will practice any unfamiliar procedures prior to performing them in the field. The number of personnel and pieces of equipment in the work area will be minimized to the extent that it compromises the effectiveness of site operations. Procedures for leaving a contaminated work area will be established prior to going onsite. Work areas and decontamination procedures will be established based on site conditions.

### 2.3.2 LEVELS OF PROTECTION

The level of personnel protective equipment required shall be determined by the type and levels of waste or spill material present at the site where project personnel may be exposed. In situations where the types of waste or spill material on-site are unknown or the hazards are not clearly established or the situation changes during onsite activities, the Site Safety Officer must make a reasonable determination of the level of protection that will assure the safety of drilling personnel until the potential hazards have been determined precisely through monitoring, sampling, informational assessment, or other reliable methods. Once the hazards have been determined, protective levels commensurate with the hazards shall be employed. Protection levels will be continuously evaluated to reflect any new information acquired.

The levels of protection utilized by SEMCO INC. are presented below:

Level A - Level A protection must be selected when the Site Safety Officer makes a reasonable determination that the highest available level of both respiratory and skin and eye contact protection is needed. It should be noted that while Level A provides maximum available protection, it does not protect against all possible hazards. Consideration of the heat stress that can arise from wearing Level A protection should also enter into the subtask leaders decision. (Comfort is not a decision factor, but heat stress will influence work rate, scheduling, and other work practices.)

Level B - The Site Safety Officer must select Level B protection when the highest level of respiratory protection is needed, but hazardous material exposure to the few unprotected areas of the body (i.e. the back of the neck) is unlikely.

Level C - The Site Safety Officer may select Level C when the required level of respiratory protection is known, or reasonably assumed to be, not greater than the level of protection afforded by full face air purifying respirators; and hazardous materials exposure to the few unprotected areas of the body. Level C requires carrying an emergency escape respirator.

Level D - Level D is the basic work uniform. Investigators and response personnel must not be permitted to work in civilian clothes. An emergency escape respirator may be required

Respiratory protection criteria and suitable protection gear are summarized in Table 2-1. Fit testing of safety equipment will be an important part of establishing adequate respiratory and dermal protection. Fit testing will be accomplished prior to site explorations and each individual will be assigned a fitted respirator for the duration of the project. These will be tagged for identification.

It should be recognized that most situations require a different combination of respiratory and dermal protective gear, e.g., where no splash protection is required but a high respiratory hazard is present. The site Safety Officer may elect a modification of the above.

TABLE 2-1  
 PROTECTIVE GEAR  
 (AIR QUALITY LEVELS IN PPM)

	Level D	Level C	Level B	Level A
Air Quality Above Background	0	0-5	5-500	500-1000
Respirator Type*	Escape	Full Face + Escape	SCBA	SCBA
Clothing				
o Boots	*	*	*	*
o Safety glasses or equivalent	*	*	*	
o Hard hat	*	*	*	
o Gloves, inner and outer	*	*	*	*
o Booties		*	*	*
o Coveralls	*	*	*	
o Chemical protective coveralls		*	*	
o Totally encapsulated suit				*

\* Use of a respirator is allowed only where identification or organic vapor constituents has occurred and appropriate respirator cartridges have been obtained.

### 3.0 EMERGENCY RESPONSE

#### 3.1 ON-SITE FIRST AID

All of Semco, Inc.'s Drill Rigs will be equipped with the following items at all times:

- an industrial first aid kit
- 2 ELSA 10 minute supplied Air Escape Mask
- 3 Half Mask respirators
- 3 Full Face respirators
- 10 pair Cartridges TC-21C-287 (organic vapors)
- 10 pair Cartridges TC-23C-450 (organic vapors, acid gases)
- 3 hard hats
- 5 safety glasses
- 30 pair disposable gloves
- 10 pair butyl rubber gloves
- 10 chem resist coveralls (coated Tyvek)
- 3 pair rubber boots with steel toes
- 2 fire extinguishers (co 2)
- 1 eye wash station (portable)

3.1.1 At least one person qualified to perform first aid will be present onsite at all times during work activity. This person will have earned a certificate in first aid training from the American Red Cross or will have received equivalent training.

#### 3.1.2 Transportation to Emergency Treatment

A vehicle will be available at all times for use in transporting personnel to the hospital. Hospital routes shall be discussed prior to onsite activity.

#### 3.1.3 Contingency Planning

Prior to commencement of onsite activities, field personnel will review safety considerations with the Site Safety Officer. The Site safety Officer is responsible for adherence to the designated safety precautions and for adherence to the designated safety precautions and assumes the role of SEMCO, INC'S on site coordinator with the client in an emergency response situation.

## 3.2 POTENTIAL HAZARDS

The potential hazards associated with hazardous waste site investigation included 1) accidents; 2) contact, inhalation or ingestion of hazardous materials; 3) explosion; and 4) fire.

### 3.2.1 Accidents

Accidents must be handled on a case by case basis. Minor cuts, bruises, muscle pulls, etc., will still allow the injured person to undergo reasonable normal decontamination procedures prior to receiving direct first aid. More serious injuries may not permit complete decontamination procedures to be undertaken, particularly if the nature of the injury is such that the victim should not be moved. The nature and degree of surface contamination at a site is generally low enough that emergency vehicles could reach the victim on site without undue hazard.

### 3.2.2 Contact and/or Ingestion of Hazardous Materials

Properly prescribed and maintained protective clothing and adherence to established safety procedures are designed to minimize these hazards. However, it is still a possibility that contact or ingestion of materials may occur. One possibility for contamination is the puncture of a buried drum of liquid during drilling operations which might cause the random distribution of the drum contents. Standard first aid procedures should be followed. The drilling rig will have a tank of water which may be useful in some circumstances, particularly to flush off any exposed skin areas. Eye wash bottles will also be maintained at the site in case of emergencies. In cases of ingestion or other than minor contact with known substances, the Poison Control Center and local hospital should be contacted and the victim brought there immediately for further treatment and observation.

### 3.2.3 Explosion

The drilling crew should be keenly aware of combustible gas meter readings and withdraw at an indication of imminently hazardous conditions. The detection of such conditions shall be reported to local agencies for potential execution of the evacuation plan should the situation be assessed as warranting such response.

### 3.2.4 Fire

The combustible gas meter will also warn of imminent fire hazards at borings. The greatest fire hazard at the site should be recognized as handling the methanol used for decontamination. No smoking or open flames are allowed in this area. Carbon Dioxide fire extinguishers will be kept at the drilling rig, and the decontamination area/field office. The Fire Department, previously informed of site activities, will be called as needed.

### 3.3 EVACUATION RESPONSE LEVELS

Evacuation responses will occur at three levels: (1) withdraw from immediate work area ( 100+ feet upwind); (2) site evacuation; (3) evacuation of surrounding area. Anticipated conditions which might require these responses are described below:

Withdrawal up-Wind (100 or more feet)

- o Sensing ambient air conditions as containing greater contaminant concentrations than guidelines allow for the type of respiratory protection being worn. The work party may return upon donning greater respiratory protection and/or assessing the situation as transient or past.
- o Breach in protective clothing or minor accident. The party may return when tear or other malfunction is repaired and first aid or decontamination has been administered.

#### 3.5.1 Site Evacuation:

Upon determination of conditions warranting site evacuation, the work party will proceed upwind of the borehole and notify the security force, Site Safety Officer and the field office of site conditions. If the decontamination area is upwind and greater than 500 feet from the borehole, the crew will pass quickly through decontamination to remove contaminated outer suits. If the hazard is toxic gas, respirators will be retained. The crew will proceed to the field office to assess the situation. There the respirators may be removed ( if the PI meter indicates an acceptable condition). As more facts are determined from the field crew, these will be relayed to the appropriate agencies.

#### 3.5.2 Evacuation of Surrounding Area

When the Site Manager determines that conditions warrant evacuation of downwind residences and commercial operations, the local agencies will be notified and assistance requested. Designated onsite personnel will initiate evacuation of the immediate off site area without delay.

### 3.6 TRAINING

The attached matrix (Figure 3-1) indicated training received by on site personnel. All personnel should become familiar with this matrix to minimize response times.

## 4.0 DECONTAMINATION

### 4.1 PERSONNEL DECONTAMINATION PROCEDURE

A decontamination procedure will be carried out by all personnel leaving hazardous waste sites. Under no circumstances (except emergency evacuation) will personnel be allowed to leave the site prior to decontamination. Procedures for removal of protective clothing are as follows:

- o Drop tools, monitors, samples and trash at designated drop stations. These will be plastic containers or drop sheets.
- o Step into designated shuffle pit area and scuff feet to remove gross amounts of dirt from outer boots. If necessary, wash boots down with clear water in designated wash pit area.
- o Remove tape from boots and remove boots. Discard in drum container.
- o Remove outer gloves and place in container.
- o Remove hard hat and respirator and hang in the designated area.
- o Remove coveralls and discard in container.
- o Remove inner gloves and discard in container.
- o If the site required utilization of a decontamination trailer, all personnel would also shower before leaving the site at the end of the work day.

Note: Disposable items (coverall, inner gloves, and overboots) will be changed on a daily basis unless there is reason for changing sooner. Dual respirator canisters will be changed weekly unless more frequent changes are deemed appropriate by site surveillance data or personnel assessment.

A water hose and/or designated wash area will be available for wash down and cleaning purposes.

A schematic of a typical decontamination area is shown in Figure 4-1.

### 4.2 EQUIPMENT DECONTAMINATION

Equipment to be decontaminated during the project may include: (1) drilling rig and tools; (2) sample containers; (3) monitoring equipment; and (4) respirators.

All decontamination will be done by personnel in protective gear appropriate for the level of decontamination, determined by the Site Safety Officer. The decontamination work tasks will be split or rotated among support and work crews. Decontamination procedures within the trailer (if used) should take place only after other personnel have cleared the "hot area", moved to the clean area and the door between the two areas closed.

Miscellaneous tools and samplers will be dropped into a plastic pail, tub or other container. They will be brushed off and rinsed (outside, if possible) and transferred into a second pail to be carried to further decontamination stations. They will be washed with a trisodium phosphate or detergent solution, rinsed with acetone or methanol, rinsed with a trisodium phosphate or detergent solution and finally rinsed with clean water.

#### 4.2.1 Drilling Rig and Tools

It is possible that the drill rigs will be contaminated during test pit/borehole activities. They will be cleaned with high pressure water or portable high pressure steam followed by soap and water wash and rinse. Loose material will be removed by brush.

#### 4.2.2 Sample Containers

Exterior surfaces of sample bottles will be decontaminated prior to packing for transportation to the analytical laboratory. Sample containers will be wiped clean and placed in individual Zip-Loc bags at the sample site. It will be difficult to keep the sample containers completely clean. The samples will be further cleaned if necessary and transferred to a clean carrier and the sample identifies noted and checked off against the chain-of-custody record. The samples, now in a clean carrier, will be stored in a secure area prior to shipment.

#### 4.2.3 Monitoring Equipment

Monitoring equipment will be protected as much as possible from contamination by draping, masking or otherwise covering as much of the instruments as possible with plastic without hindering the operation of the unit. The HNU meter, for example, can be placed in a clear plastic bag which allows reading of the scale and operation of the knobs. The HNU sensor can be partially wrapped, keeping the sensor tip and discharge port clear.

The contaminated equipment will be taken from the drop area and the protective coverings removed and disposed of in the appropriate containers. Any dirt or obvious contamination will be brushed or wiped with a disposable paper wipe and the used wipers discarded. The units will then be taken inside in a clean plastic tub, wiped off with damp disposable wipes and dried. The units will be checked, standardized and recharged as necessary for the next day's operation. They will then be covered with new protective coverings.

#### 4.2.4 Respirators

Respirators will be decontaminated daily. Taken from the drop area, the masks will be disassembled, the cartridges set aside and the rest placed in a cleansing solution. (Parts will be precoded, e.g., #1 on all parts of mask #1). After an appropriate time within the solution, the parts will be removed and rinsed off with tap water. The old cartridges will be marked to indicate length of usage and will be discarded into the contaminated trash container for disposal when considered spent. In the morning the masks will be re-assembled and new cartridges installed if appropriate. Personnel will inspect their own masks to be sure of proper readjustment of straps for proper fit.



## 5.0 DOCUMENTATION AND RECORD KEEPING

Samples of field activity documentation forms are attached. Minimum documentation consists of:

- o daily field record kept by individuals
- o hazardous site surveillance record kept by Site Safety Officer
- o chain-of-custody records and lab results of samples collected
- o personal hazardous material exposure record

The Site Safety Officer is also responsible for immediate notification of SEMCO Inc's Health and Safety Coordinator in the event of personal injury.

## 6.0 UPDATING OF HEALTH AND SAFETY PLAN

Each individual involved in field operations is responsible for maintaining weekly safety sheets. If any deficiency is encountered in the Health and Safety Plan, a report will be prepared and forwarded to the Health and Safety Coordinator. The Site Safety Officer will immediately initiate necessary changes to improve protection of field staff.



JAN 9 1990

In Reply Refer To:

Mr. Gil Wistar  
Hazardous Material Specialist  
Department of Environmental Health  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, CA 94621

Dear Mr. Wistar:

This is in response to your letter dated November 21, 1990 in which you requested a work plan for an initial subsurface investigation of hydrocarbons discovered in the soil around the underground tanks.

We are in the process of hiring an independent consulting firm to assist us in preparing the requested work plan and oversee the corrective actions. Due to our funding and procurement procedures, we are requesting a time extension to the January 25, 1991 response date. We recommend March 29, 1991 be set as the new response date.

If you have any questions, please contact Mr. Clifford Schem, Chief, Engineer at 415/447-2560, extension 6401.

Sincerely yours,

A handwritten signature in cursive script, appearing to read 'Marvin E. O'Rear'. Below the signature, the name and title are printed in a standard font.

Marvin E. O'Rear  
Medical Center Director

cc: Regional Industrial Hygienist  
(90)  
(001SM)