

93 NOV -8 PM 2:41

November 1, 1993

Mr. Robert Deluca
Alameda Unified School District
2200 Central Avenue
Alameda, CA 94501

RE: Quarterly Groundwater Sampling
Encinal High School, Alameda, California

Dear Mr. Deluca:

The attached report describes the materials and procedures used during groundwater sampling of the monitoring wells located at Encinal High School, 210 Central Avenue, Alameda, California.

This work was performed to evaluate the presence or absence of residual hydrocarbon concentrations in groundwater by obtaining samples from existing monitoring wells.

Groundwater samples obtained from each monitoring well were submitted to ChromaLab, Inc. for petroleum hydrocarbon analysis, in accordance with the "Tri-Regional Guidelines for Underground Storage Tank Sites".

The results of the chemical analysis indicated non-detectable concentrations in monitoring wells MW-2 and MW-3. Sample analysis results from monitoring well MW-1 indicated detectable levels of Total Petroleum Hydrocarbons (TPH) as diesel.

If you have any comments regarding this report, please call me.

Sincerely,


Misty C. Kaltreider
Geologist

cc: ✓ Mr. Richard Hiett - Regional Water Quality Control Board
Ms. Juliet Shin - Alameda County Health Care Services - Division of Hazardous Materials

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



EBH

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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

December 17, 1992

Encinal High School
210 Central Avenue
Alameda, CA 94501

STID 4393

RE: Addendum to December 16, 1992 letter for 210 Central
Avenue, Alameda, California

To Whom It May Concern,

In addition to the requirement of the December 16, 1992 letter from this office, please submit any information on the closure of the product piping at the site. This office does not have any information indicating whether all the product piping was removed or flushed before closing in place.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,

Juliet Shin
Hazardous Materials Specialist

cc: Richard Hiett, RWQCB

SEMCO
1741 Leslie Street
San Mateo, CA 94402

Edgar Howell-File (JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES
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ERBA

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State Water Resources Control Board
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80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

December 16, 1992

Encinal High School
210 Central Avenue
Alameda, CA 94501

STID 4393

RE: Required investigations at Encinal High School, 210 Central Avenue, Alameda, California

To Whom It May Concern,

On April 21, 1992, a 1,500-gallon heating oil underground storage tank (UST) was removed from the above site. Two soil samples were collected from beneath the tank and one ground water sample was collected from the tank pit. Although analysis of the soil samples did not identify any contamination, analysis of the ground water sample did identify 640 parts per billion (ppb) diesel.

Guidelines established by the California Regional Water Quality Control Board (RWQCB) require that a ground water investigation be conducted whenever an unauthorized release of product to the ground water is suspected from the operation of an UST. The ground water contamination would indicate that such an event may have occurred.

You are required to submit a work plan addressing investigations to determine the severity and extent of ground water contamination at the site. This work plan is due **within 45 days** of the receipt of this letter. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site.

In order to proceed with a site investigation, you should obtain professional services of a reputable environmental consultant. All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer. Please include a statement of qualifications for each lead professional involved with this project.

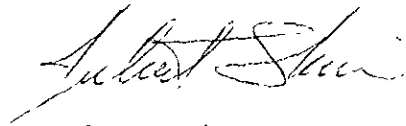
This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The RWQCB may choose to take over as lead agency if it is determined, following the completion of the initial assessment, that there has been a substantial impact to ground water.

Encinal High School
RE: 210 Central Ave.
December 16, 1992
Page 2 of 2

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 RWQCB.

If you have any questions or comments, please contact Juliet Shin at (510) 271-4320.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

Attachment

cc: Richard Hiett, RWQCB

Robert La Grone, Alameda Fire Dept.

Edgar Howell-File (JS)

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 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.	
REPORT DATE 04/24/92		CASE #		SIGNED: _____ DATE: 4-24-92	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT SCOTT SEERY			PHONE (510) 271-4320	
	REPRESENTING <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER			COMPANY OR AGENCY NAME Alameda Co. Env. Health Dept.	
	ADDRESS 80 Swan Way, Rm. 200 Oakland CA 94621				
RESPONSIBLE PARTY	NAME Alameda Unified School Dist. <input type="checkbox"/> UNKNOWN			CONTACT PERSON Don Diel	
	ADDRESS 2200 Central Ave. Alameda CA 94501			PHONE (510) 748-4090	
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Encinal High School			OPERATOR	
	ADDRESS 210 Central Ave. Alameda Alameda 94501			PHONE (510) 748-4090	
	CROSS STREET 3rd Street				
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Env. Health Dept.			CONTACT PERSON Scott SEERY	
	REGIONAL BOARD San Francisco Bay			PHONE (510) 464-1255	
SUBSTANCES INVOLVED	(1) heating oil			QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2) _____ <input type="checkbox"/> UNKNOWN				
DISCOVERY/ABATEMENT	DATE DISCOVERED 04/20/92		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input checked="" 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 04/20/92				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) UNKNOWN				
COMMENTS	Soil contamination noted in excavated soil/backfill (≤ 360 ppm TPH-D)				
	Shallow GW discovered ~ 8 feet below grade. GW shown to exhibit 640 ug/L TPH-D, and TEX of 0.5, 0.3, and 2-3 ug/L, respectively.				



Guadalupe Rubbish Disposal Co., Inc.
 P.O. Box 20957, San Jose, California 95160
 Street Address: 15999 Guadalupe Mines Road

WEIGH TICKET

92022

Guadalupe Landfill

Payshack # 2

Account SEMCO 1291
 Fleet # Tag #
 Loop Tag
 Transaction # 369128 Site PS
 Transtn Type = 3rd Party Transaction
 Payment Type = Charge
 Vehicle Type = Not Specified
 Origin Type = Other
 Materl. Type = Special Soil CY
 Destin. Type = Not Specified

	In	Out	B2
Date	04-24-92	04-24-92	IN
Time	10:47	10:47	0
Scale Op	SJR	SJR	
	lbs	tons	
Gross Wt	0	0.000	--
Tare Wt	0	0.000	--
Net Wt	0	0.000	CY
Cubic Yards =	15		
Rate \$	30.00/CY		
Tip Fee \$	450.00		
Spec Fee \$	0.00		
Sales Tax \$	0.00		
Total Fee \$	450.00		

Message: HOUSEHOLD HAZ. WASTE DISP. 299-7300

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed or counted by a weighmaster whose signature is on this certificate, who is

Guadalupe Rubbish Disposal Co., Inc.
 P.O. Box 20957, San Jose, California 95160
 Street Address: 15999 Guadalupe Mines Road

WEIGH TICKET

92022
 AUSD
 Encl

Guadalupe Landfill

Payshack # 2

Account SEMCO 1291
 Fleet # Tag #
 Loop Tag
 Transaction # 369122 Site PS
 Transtn Type = 3rd Party Transaction
 Payment Type = Charge
 Vehicle Type = Not Specified
 Origin Type = San Jose
 Materl. Type = Special Soil CY
 Destin. Type = Not Specified

	In	Out	B2
Date	04-24-92	04-24-92	IN
Time	10:42	10:42	0
Scale Op	SJR	SJR	
	lbs	tons	
Gross Wt	0	0.000	--
Tare Wt	0	0.000	--
Net Wt	0	0.000	CY
Cubic Yards =	20		
Rate \$	30.00/CY		
Tip Fee \$	600.00		
Spec Fee \$	0.00		
Sales Tax \$	0.00		
Total Fee \$	600.00		

Message: HOUSEHOLD HAZ. WASTE DISP. 299-7300

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed or counted by a weighmaster whose signature is on this certificate, who recognized authority of accuracy, as prescribed by Chapter 7 (commencing Section 12700) of Division 5 of the California Business and Professions Code administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

DRIVERS SIGNATURE AMC

DEPUTY WEIGHMASTER _____

CUSTOMER COPY

REORDER: JOE FORNEY (408) 275-6650

113078

REORDER: JOE FORNEY (408) 275-6650

113078

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

II, III

white - env. health
yellow - facility
pink - files

Site ID # _____ Site Name Encinal H.S. Today's Date 2/21/92

Site Address 210 Central

City Alameda Zip 94501 Phone _____

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

Inspection Categories:

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

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

Comments: 12:30 - 2:00

On-site to witness closure of UST. Upon removal the tank was inspected for holes and corrosion. Neither were observed as the tank was tar coated and in good shape. Piping is to be stubbed at building foundations and capped.

Native material appears to be a clean fine-grained sand w/ occasional shell fragments. This sand is saturated. Some is stained blue. Native material from the south end of the tank was both the fine sand and ~~dry~~ blue (Bay?) clay. Because of continual caving of the sidewalls and undermining of the asphalt, no sidewall samples could be collected. Water samples for TPH-D and BTEX analyses to be collected.

Excavated material must be sampled as follows:
- one (1) discrete sample per ea. 20Yds³ if soil is to be placed back into excavation

* Note: much of the excavated soil has product odor, whether from spillage occurring yesterday is unknown.

II, III

II.A BUSINESS PLANS (Title 19)

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

II.B ACUTELY HAZ. MATLS

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

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak 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 gndwater One time sols
 - 3) Daily Vadose One time sols Annual tank test
 - 4) Monthly Gndwater One time sols
 - 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

Contact: Chuck Kiper
 Title: SEMCO
 Signature: Michael S. TAMBROW
 MICHAEL S. TAMBROW

Inspector: S. Seely
 Signature: [Signature]

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name Encinal H.S. Today's Date 4/20/92

Site Address 210 Central Ave.

City Alameda Zip 94501 Phone _____

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

Inspection Categories:

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

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

Comments:

2:00 -

On-site to witness closure of one ~ 2500 gallon heating oil tank. Upon arrival the tank had not yet been pumped out, nor had it been vented. A City of Alameda F.D. rep, as well as the school district hazardous materials manager, Donald Diel. By all apparent indications, the actual removal of the tank will not likely occur today.*

* However, it was decided to forge ahead with closure and stay late if necessary. A natural gas line was encountered at the north end of tank, passing across the tank's top. Apparent GW was noted welling into the excavation at a depth of ~6.5' below grade. Product lines, and there appear to be two (2), posed an additional problem: one was still holding product and, when disconnected, began draining product into the pit. The line was suctioned as well as possible.

perpendicular

∴ At 5:10, the projected was postponed until tomorrow.

II, III

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
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- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MAT'L

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

III. UNDERGROUND TANKS (Title 23)

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

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose Semi-annual groundwater One time soils
 - 3) Daily Vadose One time soils Annual tank test
 - 4) Monthly Groundwater One time soils
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/groundwater 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. Precls Tank Test 2643
 - Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water 2647

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

Rev 8/88

Contact: _____

Title: _____

Signature: _____

Inspector: S. Seery

Signature: _____

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

ACCEPTED
 4/20/92
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 470 - 4th Street, 7th Floor
 Oakland, CA 94612
 Telephone (415) 557-2237

Project Specialist (print) Scott Seery

These plans have been reviewed and found to be acceptable and consistent with 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. If a condition provided by you is now released for issuance of any permit building permits for construction. One copy of these approved plans must be on the job and available to all contractors and craftsmen involved with the removal.

Violations or alterations of these plans and specifications must be reported to the Department and to the file and permit. The Department may require to determine if such violations are a health hazard to the public or State and local laws. A violation of these laws is cause for a stop work order. 8 hours prior to the violation required by law.

4-20-92 Permit of Tank and Piping
 4-20-92 Sampling
 State Inspection
 Issuance of a permit to operate is dependent on compliance with applicable laws and all applicable laws and regulations. **HAZARDOUS MATERIALS DIVISION.**

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name ENCINAL HIGH SCHOOL
 Business Owner ALAMEDA UNIFIED SCHOOL DISTRICT
 2. Site Address 210 CENTRAL AVENUE
 City ALAMEDA Zip 94501 Phone 748-4090
 3. Mailing Address 2200 CENTRAL AVENUE
 City ALAMEDA Zip 94501 Phone 748-4090
 4. Land Owner ALAMEDA UNIFIED SCHOOL DISTRICT
 Address 2200 CENTRAL AVE. City, State ALAMEDA, CA Zip 94501
 5. Generator name under which tank will be manifested ALAMEDA UNIFIED SCHOOL DISTRICT
- EPA I.D. No. under which tank will be manifested CAD981683774

6. Contractor SEMCO
Address 1741 LESLIE STREET
City SAN MATEO CALIFORNIA 94402 Phone 572-8033
License Type A,B,C-61/D40 ID# 449864

7. Consultant N/A
Address _____
City _____ Phone _____

8. Contact Person for Investigation
Name CHUCK KIPER Title VICE-PRESIDENT
Phone 572-8033

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

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name ALLIED PETROLEUM EPA I.D. No. CAD98065675128
Hauler License No. 1168 License Exp. Date 4/30/92
Address PO BOX 193
City HILMAR State CA Zip 95327

b) Product/Residual Sludge/Rinsate Disposal Site

Name REFINERIES SERVICES EPA I.D. No. CAD83166728
Address 13331 W. HIGHWAY 33
City PATTERSON State CA Zip 95363

c) Tank and Piping Transporter

Name RHT TRUCKING EPA I.D. No. CAD982471591
Hauler License No. 2753 License Exp. Date 4/30/92
Address 1336 PAULINE
City MODESTO State CA Zip 95351

d) Tank and Piping Disposal Site

Name ERICKSON, INC. EPA I.D. No. CAD009466392
Address 255 PARR BLVD
City RICHMOND State CA Zip 94801

11. Experienced Sample Collector

Name CHUCK KIPER
Company SEMCO
Address 1741 LESLIE STREET
City SAN MATEO State CA Zip 94402 Phone 572-8033

12. Laboratory

Name SUPERIOR PRECISION ANALYTICAL
Address 1555 BURKE, UNIT 1
City SAN FRANCISCO State CA Zip 94124
State Certification No. 1332 & 319

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

HIGH PRESSURE HOT WATER DETERGENT WASH

20 LBS PER 1000 GALLONS DRY ICE

FINAL PURGE WITH AIR. OR PER LOCAL FIRE DEPT. REQUIREMENTS

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)		
2500 GAL	HEATING OIL	SOIL/WATER	2 FEET BELOW EACH END OF TANK EVERY 20 FT OF PIPING 2 FEET BELOW 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.

Excavated/Stockpiled Soil*

**Stockpiled Soil
Volume
(Estimated)**

Sampling Plan

SAMPLES TAKEN FROM THE EXCAVATION WILL BE COLLECTED, PLACED IN BRASS TUBES, SEALED WITH FOIL, TEFLON CAPS SEALED WITH APPROVED TAPE, PLACED ON DRY ICE AND TRANSPORTED TO A STATE CERTIFIED LAB UNDER CHAIN OF CUSTODY AND ANALYZED FOR THE CONSTITUENTS OF THE TANK.

* FOR SOIL REUSE, ONE DISCRETE SAMPLE PER 20 YDS³; FOR DISPOSAL, PER REQUIREMENTS OF DISPOSAL SITE
Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

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

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

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH D BTXE	GCFID (3550) 8020 or 8240		1.0 PPM -SOIL 0.005 PPM -SOIL
TPH/BTXE	8260		

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer FAIRMONT INSURANCE COMPANY

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) CHUCK KIPER

Signature *Chuck Kiper*

Date 3/3/93

Signature of Site Owner or Operator

Name (please type) DONALD DIEL

Signature *Donald Diel*

Date 3/2/92

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.

Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.
5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Health Services, 916/324-1781.
6. CONTRACTOR
Prime contractor for the project.
10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
15. TANK HISTORY AND SAMPLING INFORMATION
Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

17. SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- c) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- d) Frequency and types of air and personnel monitoring to be used - along with the environmental sampling techniques and instrumentation. Include instrumentation maintenance and calibration methods and frequencies;
- e) Specific personal protective equipment and procedures to be used by workers to protect themselves from the identified hazards. Also state the contaminant concentrations in air - or other conditions - which will trigger changes in work or work habits to ensure workers are not exposed to high levels of hazardous chemicals or to other unsafe conditions;
- f) Confined space entry procedures (if applicable);
- g) Decontamination procedures;
- h) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, security guards, etc.);
- i) Spill containment and emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- j) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- k) Page **for** employees to sign indicating they have read and will comply **with** the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A **complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.**

NOTE: These requirements are excerpts from 29 CFR Part 1910.120, Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

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

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

20. DEPOSIT

A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Description of sampling methods;
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Tabulation of the volume and final destination of all non-manifested contaminated soil hauled offsite.

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
UNDERGROUND TANK LEAKS

<u>HYDROCARBON LEAK</u>	<u>SOIL ANALYSIS</u>	<u>WATER ANALYSIS</u>
Unknown Fuel	TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260
Leaded Gas	TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA -----Optional-----	TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA
	TEL DHS-LUFT EDB DHS-AB1803	TEL DHS-LUFT EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) BTX&E 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Fuel/Heating Oil	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Chlorinated Solvents	CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260	CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240 CL HC 8010 or 8240	TPH G GCFID(5030) TPH D GCFID(3510) O & G 5520 C & F BTX&E 602, 624 or 8260 CL HC 601 or 624
	ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni METHOD 8270 FOR SOIL OR WATER TO DETECT: PCB* PCP* PNA CREOSOTE	PCB PCP PNA CREOSOTE

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractable, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. **Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.**
9. **PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:**

	<u>SOIL PPM</u>	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal

Regional Board Staff Recommendations
Preliminary Site Investigation

10 August 1990

from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.



CENTRAL AVENUE

700

PORTABLES

600

100/200

ADMIN

300W

300E

SCIENCE

BUSINESS ED.

MEDIA CENTER

400E

UST LOCATION

AUTO SHOP

SWIM CENTER

BOYS LOCKER

GYMNASIUM

GIRLS LOCKER

THIRD STREET

EUCINAL HIGH SCHOOL

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
9/25/91

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
431 W. Hatch Rd.
Modesto, Ca. 95351

COMPANY LETTER **A** American Star Ins. Co.
COMPANY LETTER **B** Fairmont Ins. Co.
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
A	GENERAL LIABILITY	AMS1-519725	10/1/91	10/1/92	GENERAL AGGREGATE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG. \$ 1,000,000
	CLAIMS MADE <input checked="" type="checkbox"/> OCCUR.				PERSONAL & ADV. INJURY \$ 1,000,000
	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$ 1,000,000
					FIRE DAMAGE (Any one fire) \$ 50,000
					MED. EXPENSE (Any one person) \$ 5,000
					COMBINED SINGLE LIMIT \$
	AUTOMOBILE LIABILITY				BODILY INJURY (Per person) \$
	ANY AUTO				BODILY INJURY (Per accident) \$
	ALL OWNED AUTOS				PROPERTY DAMAGE \$
	SCHEDULED AUTOS				
	HIRED AUTOS				
	EXCESS LIABILITY				EACH OCCURRENCE \$
	UMBRELLA FORM				AGGREGATE \$
	OTHER THAN UMBRELLA FORM				
B	WORKER'S COMPENSATION	WCP80480741	9/5/91	9/5/92	STATUTORY LIMITS
	AND				EACH ACCIDENT \$ 1,000,000
	EMPLOYERS' LIABILITY				DISEASE-POLICY LIMIT \$ 1,000,000
	OTHER				DISEASE-EACH EMPLOYEE \$ 1,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS All California Operations

CERTIFICATE HOLDER

County of Alameda
80 Swan Way, Room 200
Oakland, Ca. 95621

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

Roger Sultan

SITE SAFETY PLAN
FOR
UNDERGROUND STORAGE TANK REMOVAL/CLOSURE

JOB SITE ADDRESS:

210 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

PREPARED BY:
KIMBERLY LEAVITT

AUTHORED BY:
MILTON TIFFIN

JAMES G. BATEMAN PETROLEUM SERVICES, INC.

"dba"
SEMCO
1741 LESLIE STREET
SAN MATEO, CALIFORNIA 94402

431 WEST HATCH ROAD
MODESTO, CALIFORNIA 95351

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SEMCO has adopted the following Health & Safety Plan and procedures for the removal and/or closure of underground petroleum storage tanks and associated piping. The purpose of this plan is to provide health and safety guidelines to be adhered to while all work is in progress.

All personnel involved with the tank removal or associated activities will have an assigned responsibility. The outlined responsibilities will establish standards for personnel protective wear and safety procedures, and will provide for emergency actions which could arise during project operations.

SCOPE OF WORK

1.0 Scope of Work:

The tanks will be purged of all remaining residues, and these residues will be stored on site in a 55 gallon approved drum until they are hauled away or pumped out for disposal by a certified hazardous materials hauler.

The tanks will be inerted with a minimum of 15 lbs of dry ice per 1000 gallons of tank capacity. More ice will be added if necessary to displace the oxygen in the tank to a concentration level below the OSHA approved lower explosive limit, this will be achieved by using a Gastech 1314. When this level is obtained the tanks will be removed, and samples will be collected per the approved work plan.

1.1 Responsibilities of Other Agencies if Present:

- a. The Environmental Health Department is responsible for approval and inspection of procedures, including tank removal, sample procurement and integrity of work plan.
- b. The Fire Department is responsible for inspections relative to safe procedures and conditions of the tank prior to removal.

HAZARDS, SPECIAL PRECAUTIONS

2.0 Hazards, Special Precautions:

2.1 Special Precautions:

During the course of underground storage tank removal, workers could be exposed to petroleum hydrocarbon vapors, liquids, or other wastes. The following precautions will be observed by all individuals engaged in the tank removal activity.

2.1.1 Toxicity Considerations, Petroleum Substances:

All individuals should be aware of appropriate health precautions. When high concentrations of petroleum hydrocarbon vapors are inhaled, symptoms of intoxication may result. These symptoms, range from simple dizziness to unconsciousness. Care will be exercised to minimize exposure to these substances when they are present. Avoid skin contact with petroleum substances whenever possible. Use soap and water to remove any petroleum product that contacts skin. *ABILITY TO MONITOR AMBIENT LEVELS OF HC VAPORS REQUIRED.*

2.1.2 Flammability and Combustibility Considerations:

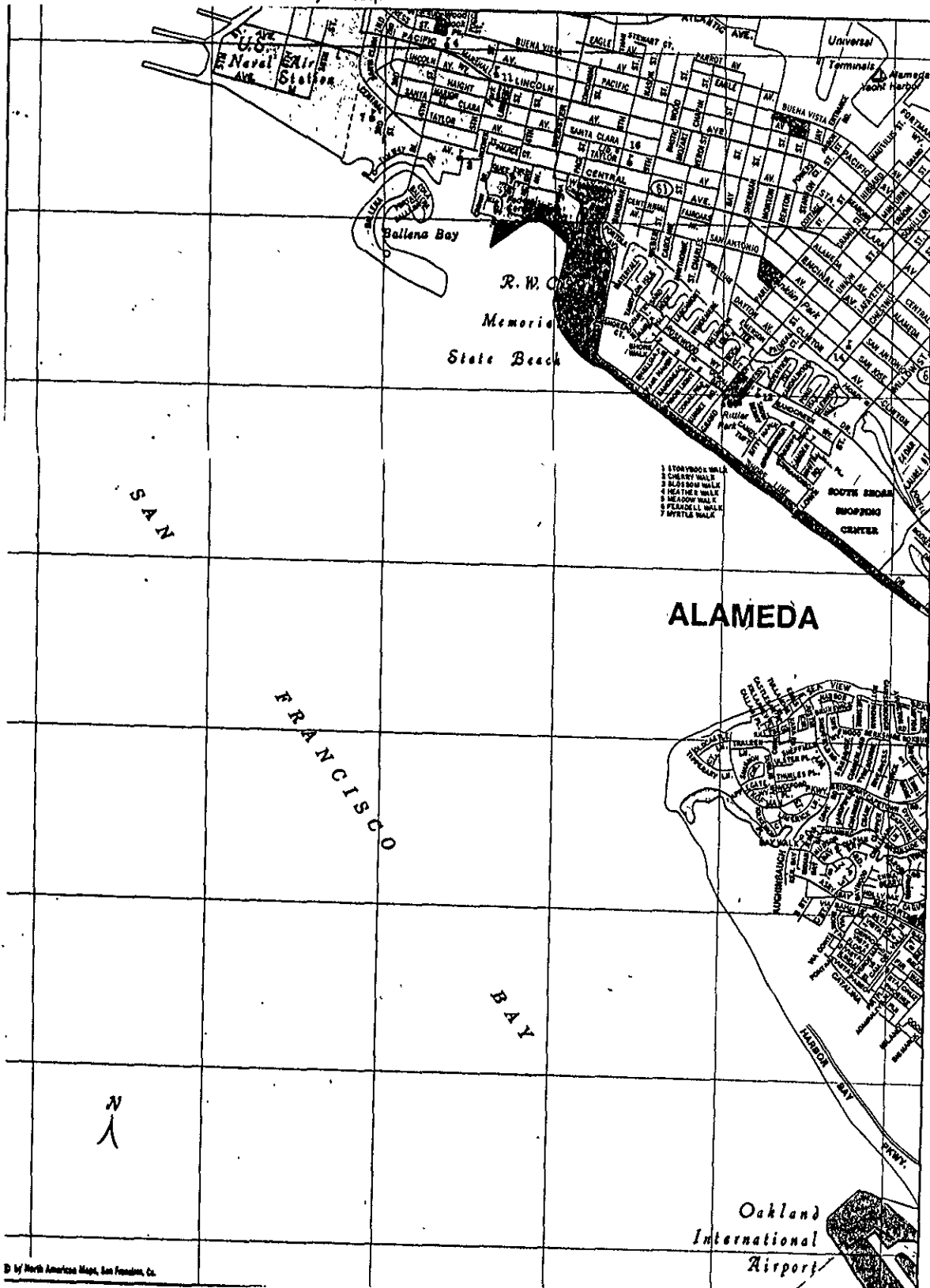
Flammable and combustible vapors are likely to be present in the work area. Precautions will be taken to eliminate all potential sources of ignition, to prevent the discharge of static electricity during venting, and to prevent the accumulation of vapors.

2.1.3 Physical Considerations:

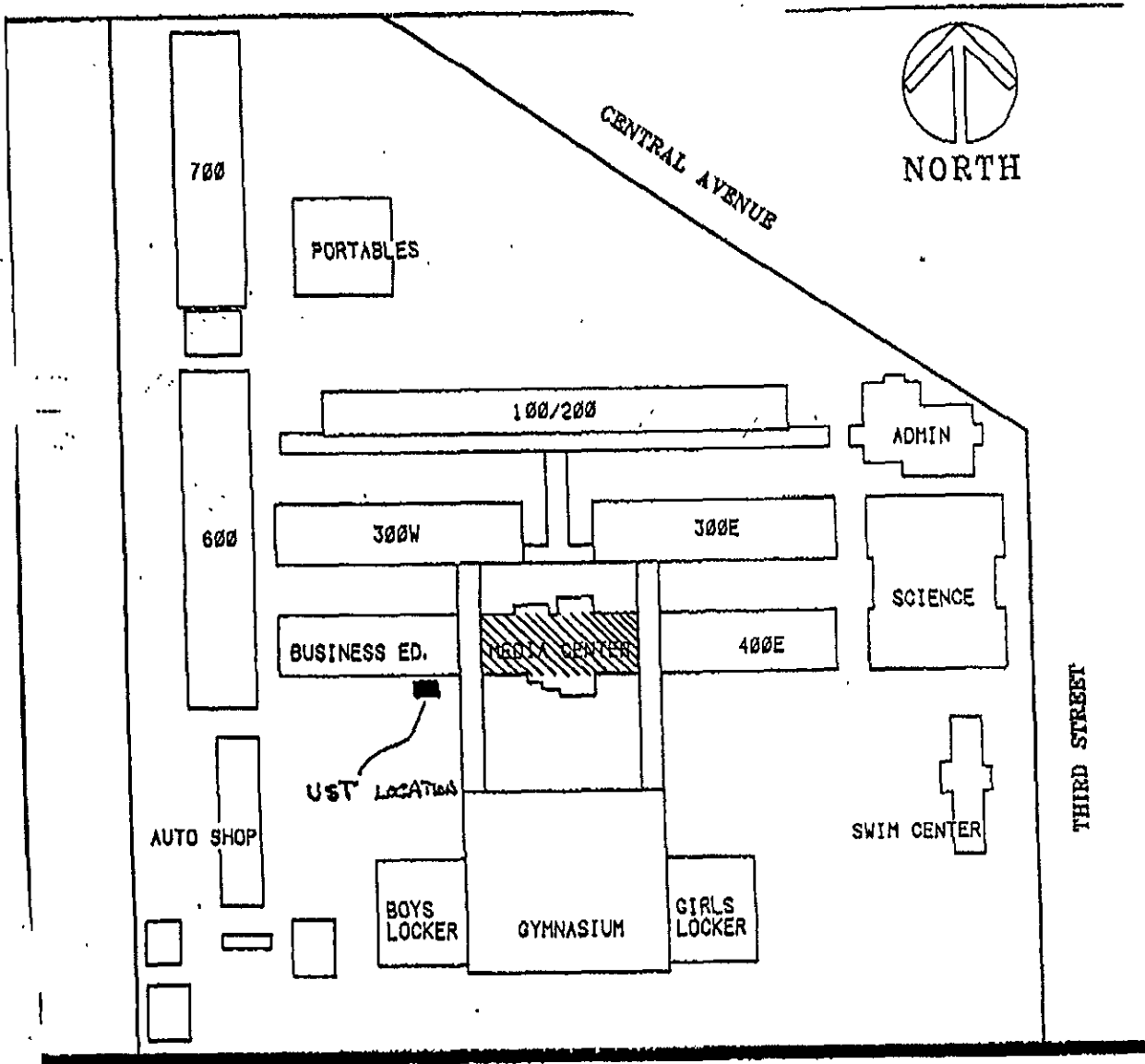
During the excavation of underground storage tanks, some physical hazards can be present, in the form of large holes, exposed piping, debris piles, and excavation equipment. All workers will be aware of these hazards and take all necessary actions to eliminate accidents, when left unattended the excavated area will be appropriately marked and barricaded at all times.

JOBSITE VICINITY MAP

3.0 Jobsite Vicinity Map



4.0 Site Map



EUCLID HIGH SCHOOL

PERSONNEL

5.0 Personnel

SEMCO Employees

5.1 Project Manager

- Manages field operations.
- Ensures the Work Plan is completed on schedule.
- Briefs the field teams on their specific assignments.
- Participates in the preparation of the Site Safety Plan.
- Serves as a liaison with public officials.

5.2 Site Safety Officer

- Implements and enforces the SSP.
- Assures that all on-site personnel have received a copy of the SSP, have read it and understand it.
- Conducts frequent inspections of site conditions, facilities, equipment, and activities to determine if the SSP is adequate and being followed.
- Conducts daily "tailgate" meetings to explain the plan of work for the day, mention potential hazards of the site.
- Ensures that protective clothing and equipment are properly stored and maintained.
- Knows emergency procedures, excavation routes, and notifies local emergency services when necessary.
- Notifies the Health and Safety Manager of all accidents and injuries that occur on site.

5.3 On-Site Personnel:

- Are required to document their full understanding of the SSP before starting work by signing that they have read the SSP and understand it.
- Complies with the SSP.
- Notifies the SSD of unsafe conditions
- On-Site employees are help responsible to perform only those tasks for which thye believe they are qualified and in their opinion are safe.

LEVEL D: Safety Glasses
 Steel Toe Shoes
 Hard Hats
 Uniform shirt/pants

LEVEL C: Safety Glasses or Goggles w/side shields
 Hard Hats
 Steel Toe Safety Shoes
 Half or Full Face Respirator with Organic Vapor Cartridge.
 Tyvek or Ploy-Coated Tyvek

EMERGENCY SERVICES

6.0 Emergency Services

6.1 Persons to contact in case of emergency:

- a. PROJECT MANAGER
Name: Chuck Kiper
Phone: (415) 572-8033
(415) 860-8221 Mobile
(415) 377-8660 Pager
- b. CLIENT CONTACT
Name: Donald Diel
Phone: (510) 748-4090
- c. SITE CONTACT
Name: Chuck Kiper
Phone: (415) 572-8033
- d. SITE SAFETY OFFICER
Name: Chuck Kiper
Phone: (415) 572-8033
- e. ALTERNATE SITE SAFETY OFFICER
Name: Terry Hamilton
Phone: (209) 524-9653
- f. HEALTH & SAFETY COORDINATOR
Name: Milton Tiffin
Phone: (209) 524-9653

6.2 Hospitals In Area:
Alameda Hospital (510) 522-3700

6.3 Emergency Routes
See Hospital Route Map, Page 10

6.4 Ambulance Service:
Regional Ambulance (510) 481-5111

6.5 Fire Prevention:

6.6 Fire Department:
DIAL 911

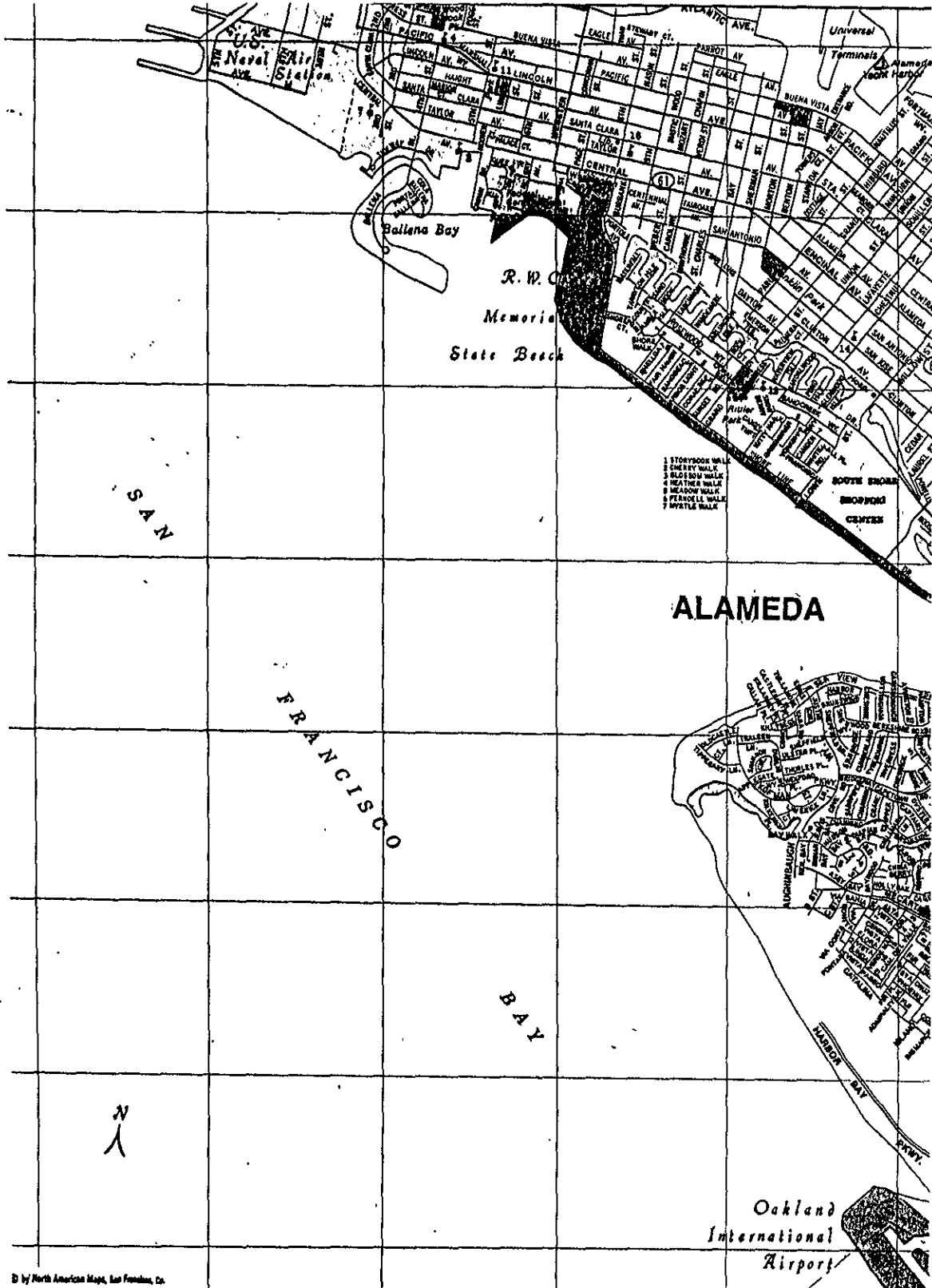
6.7 A First Aid Kit will be on site:

6.8 Barricades:
Job site will be barricaded off and construction tape will be used around working area, when work area is left unattended.

6.9 Fire Extinguishers will be present on site:

HOSPITAL ROUTE MAP

7.0 Hospital Route Map



8.0 Contingency Plan:

If an injury occurs, the following action will be taken:

- Medical attention for the injured person immediately.
- Notify the Site Safety Officer.
- Depending on the type and severity of the injury, SEMCO'S occupational physician will be notified.
- The injured person's personnel office will be notified.
- An incident report will be prepared. The Site Safety Officer will be responsible for its preparation and submittal to the Health and Safety Direction and corporate personnel office within 24 hours.
- The Site Safety Officer will assume charge during a medical emergency.
- EMERGENCY ROUTES--see Hospital Route Map, Page 10

SAFETY EQUIPMENT

9.0 Safety Equipment:

9.1 As a minimum, the following equipment will be on site:

- LEL Meter - Gastech 1314
- OSHA - Approved First Aid Kit
- 40BC Face Extinguisher
- Half Face Respirator with Organic Vapor Cartridges

10.0 Safety Training

SEMCO'S field employees have received this certificates of training as required by OSHA-SARA agencies, with refresher courses as needed. PER 29 CFR 1910.120 REQUIREMENTS *

11.0 SEMCO requires all Class I truck drivers to have a mandatory physical once a year. SEMCO supplies health insurance to all employees and administers random and mandatory drug and alcohol testing.

* 29CFR 1910.120 FURTHER REQUIRES MEDICAL MONITORING PROGRAM

10.0 Signatures & Acknowledgments:

I acknowledge having read and understood the preceding Health & Safety Plan:

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

Signature Date

532 4967 hr



Alameda Unified School District

DONALD A. DIEL

Asbestos / Hazardous Materials / Energy Manager

pager: 613-7894

2200 Central Avenue
Alameda, CA 94501

570

(415) 748-4090
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