

**Golder Associates Inc.**

1451 Harbor Bay Pkwy., Suite 1000  
Alameda, CA USA 94502  
Telephone (510) 521-0400  
Fax (510) 865-9618

ALCO  
HAZMAT

94 SEP 28 PM 3: 13



REPORT ON

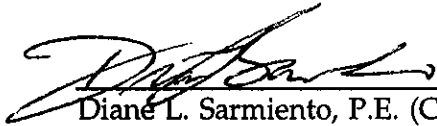
**REMOVAL OF UNDERGROUND  
STORAGE TANKS  
J&M INC.  
HAYWARD, CALIFORNIA**

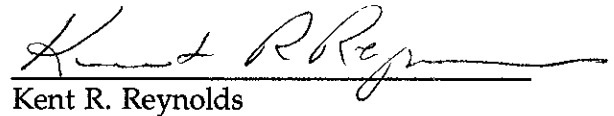
Prepared for:

J&M Inc.  
3826 Depot Road  
Hayward, California 94543

Prepared by:

Golder Associates Inc.  
Alameda, California

  
\_\_\_\_\_  
Diane L. Sarmiento, P.E. (CA #47804)  
Senior Engineer

  
\_\_\_\_\_  
Kent R. Reynolds  
Senior Hydrogeologist

**DISTRIBUTION**

2 Copies - Alameda County Health Agency  
1 Copy - Manuel Marques, Jr. - J&M Inc.  
3 Copies - Golder Associates Inc.

September 1994

943-7017

## Table of Contents

Table of Contents .....	i
-------------------------	---

<u>SUBJECT</u>	<u>PAGE</u>
INTRODUCTION .....	1
TANK REMOVAL ACTIVITIES .....	1
OBSERVATIONS DURING TANK REMOVAL .....	2
Backfill Soil and Groundwater Conditions .....	2
Tank Conditions .....	2
SAMPLING AND CHEMICAL ANALYSIS .....	2
ADDITIONAL EXCAVATION .....	3
Soil Sample Analytical Results .....	3
SUMMARY AND CONCLUSIONS .....	4

LIST OF TABLES

Table 1	Summary of Soil Chemical Analysis Results
---------	---

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Plot Plan
Figure 3	Excavation and Soil Sampling Locations

LIST OF APPENDICES

Appendix A	Tank Removal Permits
Appendix B	Manifests for Disposal of Tanks and Tank Liquids
Appendix C	Laboratory Report - Soil Sampling Results

## INTRODUCTION

This report documents activities related to the removal of two, underground, gasoline storage tanks (UST Nos. 3 and 4) from the J&M Inc. facility located at 3826 Depot Road in Hayward, California (Figure 1). Golder Associates Inc. (Golder) performed tank removal observation and sampling in accordance with the Closure Plan dated October 3, 1993 and submitted to the Alameda County Department of Environmental Health (ACDEH). The tanks were operated by J&M, Inc. the current owner and operator of the facility. The scope of Golder's services consisted of:

- Observing and documenting the activities of the tank removal contractor responsible for excavation, tank removal, additional soil excavation and coordinating tank disposal.
- Observing soil and tank conditions during removal.
- Sampling and analysis of soil following tank removal.
- Documenting the tank removal and preparing this report.

UST Nos. 3 and 4 were located beneath an asphalt paved area in the northeast portion of the J&M facility as shown on Figure 2. The tanks were removed on July 25, 1994. A copy of the permit to remove the tanks is included in Appendix A.

## TANK REMOVAL ACTIVITIES

A.M.G. Pipeline Inc. performed the tank removal construction activities that consisted of:

- Excavation and stockpiling of the sand backfill around the tank.
- Placement of dry ice in the tank to remove flammable vapors from the tank prior to removal from the excavation.
- Removal and loading of the tank for transport and disposal.
- Excavation of additional soil from the bottom of the tank to a depth of approximately 9 feet below ground surface (bgs).

Prior to removal, a total of approximately 80 gallons of gasoline and water were removed from UST Nos. 3 and 4. Manifests for the liquid generated from the tank and disposal of the tanks are included in Appendix B.

## OBSERVATIONS DURING TANK REMOVAL

### Backfill Soil and Groundwater Conditions

The top of the tank was approximately 2 feet below ground surface (bgs). Approximately 1.5 feet of gravel fill was observed below the asphalt covering the UST area. The backfill around the tank consisted of a moist, brown sand. The native soil exposed in the sidewalls of the tank excavation consisted of stiff to very stiff, dark gray to black clay to the maximum depth excavated, 10 feet bgs. The soil had a moderate petroleum odor from a depth of approximately 5 feet bgs to 10 feet bgs.

A few hours after removal of the tanks, groundwater was observed in the bottom of the excavation at a depth of approximately 7 feet. No floating, free-phase product or petroleum sheen was observed on the groundwater. Groundwater samples were not collected from the excavation due to possible cross-contamination as a result of soil mixing with groundwater during excavation.

### Tank Conditions

UST Nos. 3 and 4 were constructed of unwrapped steel with a capacity of approximately 1,000 and 550 gallons, respectively. After removal, the tanks were inspected for the presence of holes. No holes were observed in either UST. Both tanks had minor pitting and rust.

During the UST removal, a two-inch-diameter steel pipeline was observed along the northwest portion of the excavation. According to the site owner (Mr. Manuel Marques) the pipeline is believed to have previously conveyed diesel fuel from two former USTs, identified as UST Nos. 1 and 2 (Figure 2) to a former pump island located above UST Nos. 3 and 4.

## SAMPLING AND CHEMICAL ANALYSIS

Soil sampling and testing was conducted by Golder following the removal of the tanks. Mr. Jim Ferdinand of the Alameda County Fire Department and Ms. Eva Chu of the ACDEH were onsite during removal of the tanks. The soil sampling was observed by Ms. Chu. A total of three soil samples were collected. One sample was collected from the native soil underlying the south end of UST No. 4 (S-T2S-7); beneath the north end of UST No. 4 (S-T1S-7) and beneath the north end of UST No. 3 (S-TIN-7). Soil samples from the excavation were obtained from the backhoe bucket by scraping away the upper few inches and pushing a clean, 6-inch-long, brass tube into the soil. The ends of the tube were covered with teflon sheets and plastic caps. Each sample was labeled, sealed in a ziploc bag and placed in a cooler with ice. All three soil samples had a moderate petroleum odor.

All soil samples were submitted to Superior Analytical Laboratories in San Francisco, California for analysis of total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Test Methods 8015 (modified) and 8020, respectively and total lead (EPA Method 7421). The laboratory reports are included in Appendix C.

### ADDITIONAL EXCAVATION

Following the removal of the USTs, additional soil was excavated to remove TPH-affected soil. Approximately 70 cubic yards (yd<sup>3</sup>) of potentially TPH-affected soil was excavated and stockpiled adjacent to the excavation. The excavation was discontinued when it became apparent the extent of potentially affected soil was greater than expected. Three test pits (ET-1, ET-2 and ET-3) were subsequently excavated to evaluate the extent of TPH-affected soil. Figure 3 shows the location of the test pits and the approximate limits of the excavation. Test pits were excavated with a backhoe excavator and extended to a depth of approximately 5 feet. Soil samples were collected from the south and west edge of the excavation and from each of the test pits. Soil samples collected from the excavation and the test pits were initially analyzed for TPHg and BTEX. However, a review of the chromatograms identified the presence of heavier end hydrocarbons. Therefore, additional analysis was performed to quantify the concentration of hydrocarbons relative to a diesel standard (TPHd). The results of the analyses suggest hydrocarbons present in the excavation and test pit samples are more comparable to diesel. Table 1 provides a summary of the analytical results and the laboratory reports are included in Appendix C.

### Soil Sample Analytical Results

The chemical analysis results for soil samples (S-T1N-7, S-T1S-7 and S-T2S-7) collected beneath the former USTs indicate the presence of TPHg ranging from 210 to 550 milligrams per kilogram (mg/kg). BTEX was also detected in the UST closure samples with concentrations ranging from less than 1 mg/kg up to 26 mg/kg (xylene). Lead was detected at concentrations ranging from 4.2 mg/kg to 6.4 mg/kg. The reported concentrations of lead are likely indicative of naturally occurring lead in the soil at the site. Additional soil samples collected from north and west portions of the excavation and exploratory trenches ET-1 and ET-2 indicate the presence of TPH primarily in the diesel range. The concentrations of TPHd in soil ranged from 340 mg/kg, approximately 26 feet west of former USTs 3 and 4, to 1,600 mg/kg, 15 feet north of the former USTs. BTEX was also detected in samples collected from the excavation and exploratory trenches ET-1 and ET-2 at concentrations less than 1 mg/kg. Low levels of TPHg were also identified in soil samples collected from the north and west portions of the excavation and in exploratory trenches ET-1 and ET-2. However, as indicated above a review of the chromatograms indicate the hydrocarbons were comparable to hydrocarbons in the diesel range. The presence of TPHd in soil located north and west of former USTs 3 and 4 may be associated with the suspected former diesel product line.

## SUMMARY AND CONCLUSIONS

Our observations and the chemical analysis results associated with the tank removal indicate one or both of the USTs released petroleum hydrocarbons in the gasoline range including BTEX to soil. Petroleum hydrocarbons detected in soil samples collected from the additional excavation and test pits suggest a predominance of diesel range hydrocarbons possibly associated with the product line that reportedly conveyed diesel from former UST Nos. 1 and 2 to the pump island.

The results of the soil sampling suggest TPH-affected soil extends to the north and west of the test pits ET-1 and ET-2 and does not extend south of former UST No. 4. Observations made during the excavation suggest TPH-affected soil is also present along the eastern edge of the excavation.

9437017.rp1

**TABLES**

**Table 1**  
**Summary of Soil Chemical Analysis Results**  
**J & M Inc. Facility - Hayward, California**

Sample I.D.	TPH-G	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead
S-T1N-7	210	NA	1.4	2.5	2.8	14	4.2
S-T1S-7	550	NA	1.5	2.1	7.1	26	5.9
S-T2S-7	370	NA	0.84	0.83	4.4	8.9	6.4
S-ET1(15)-5	37*	1600	0.013	0.12	0.083	0.57	NA
S-ET2(13)-5	65*	1700	0.041	0.17	0.11	0.84	NA
S-ET2(26)-5	38*	340	0.16	0.13	0.14	0.49	NA
S-ET3(11)-5	ND<1	NA	ND<.005	ND<.005	ND<.005	ND<.005	NA
S-ET3(17)-5	ND<1	NA	ND<.005	ND<.005	ND<.005	ND<.005	NA

Notes:

All concentrations reported in milligrams per kilogram (mg/kg).

ND<1 = not detected at detection limit of 1 mg/kg.

TPH-G; TPH-D = Total petroleum hydrocarbons (TPH) as gasoline (G) or diesel (D).

TPH-G and BTEX analyzed by EPA Method 5030/8015 modified and 8020.

TPH-D analyzed by EPA method 3550/8015 modified.

Total lead analyzed by EPA method 7421.

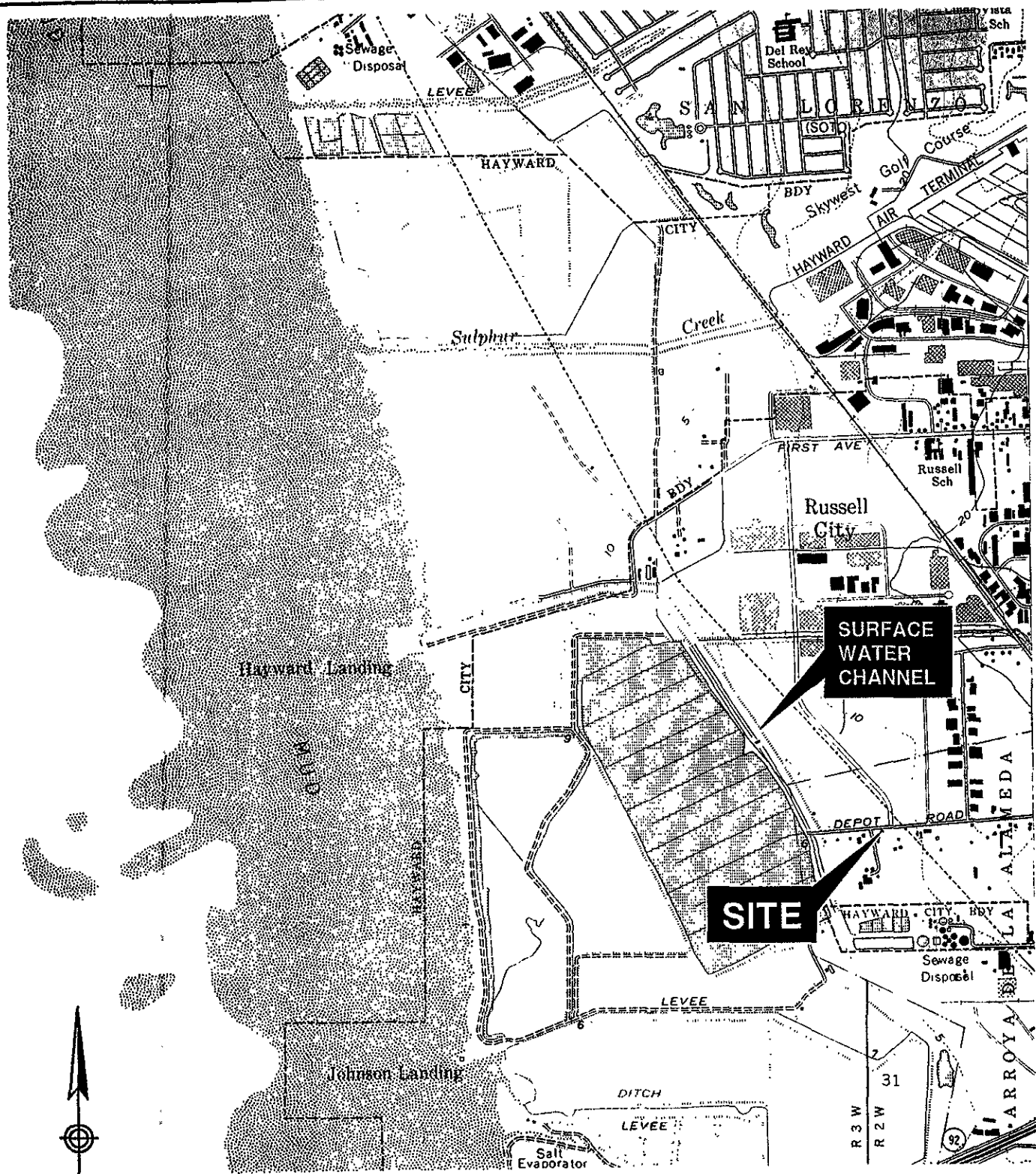
\* does not match gasoline standard - heavier hydrocarbons present.

NA = not analyzed.

8437017.x1



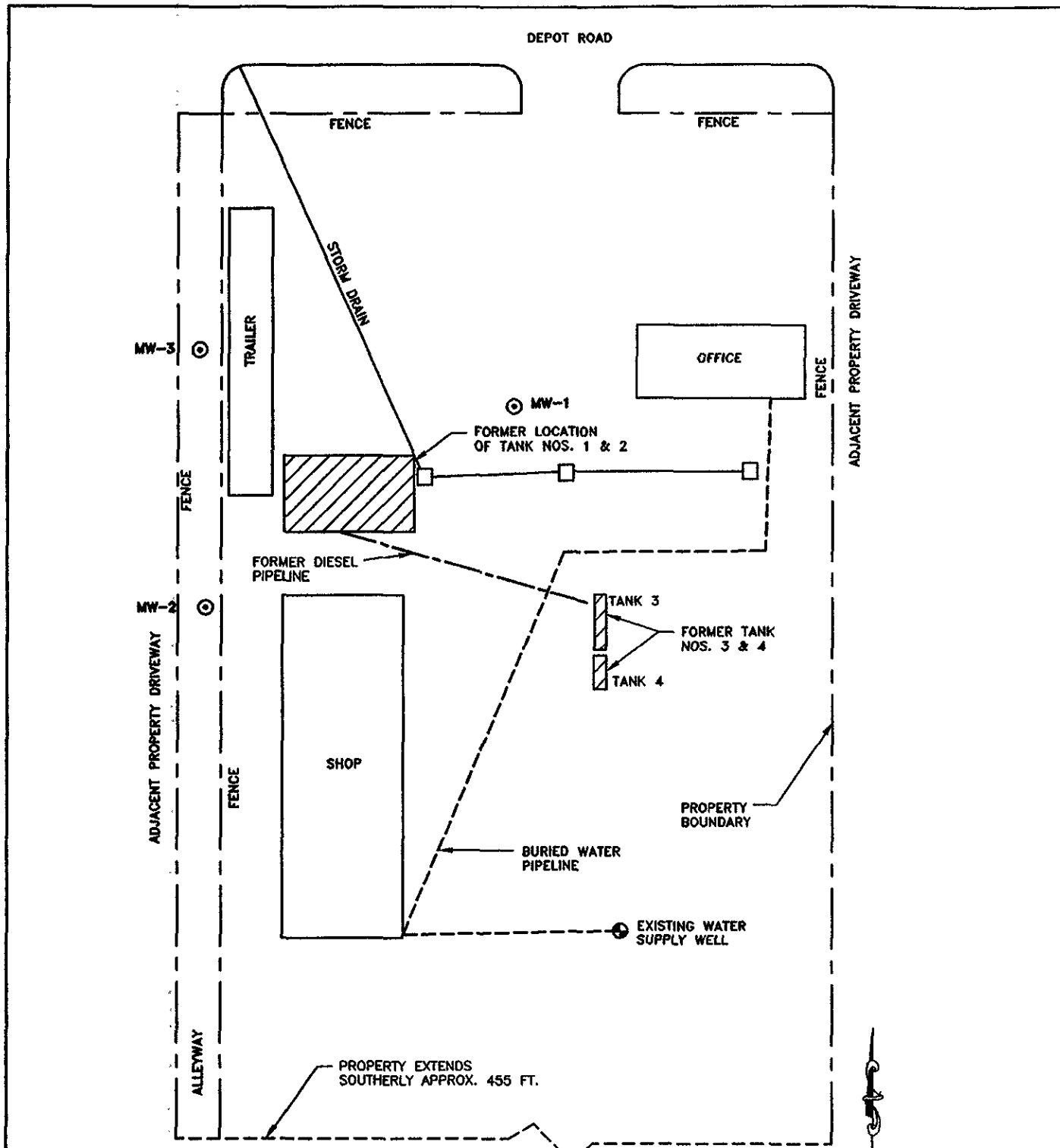
**FIGURES**



Scale 1 : 24000

Reference: Base map modified from USGS, San Leandro Quadrangle, 7.5 Minute Series (Topographic), Photorevised 1980.

Figure 1  
**SITE LOCATION MAP**  
 J & M INC./UST CLOSURE/CA



EXPLANATION:

- MW-3 EXISTING GROUNDWATER MONITORING WELL
- STORM DRAIN
- BURIED WATER PIPELINE

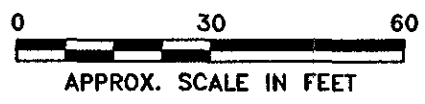
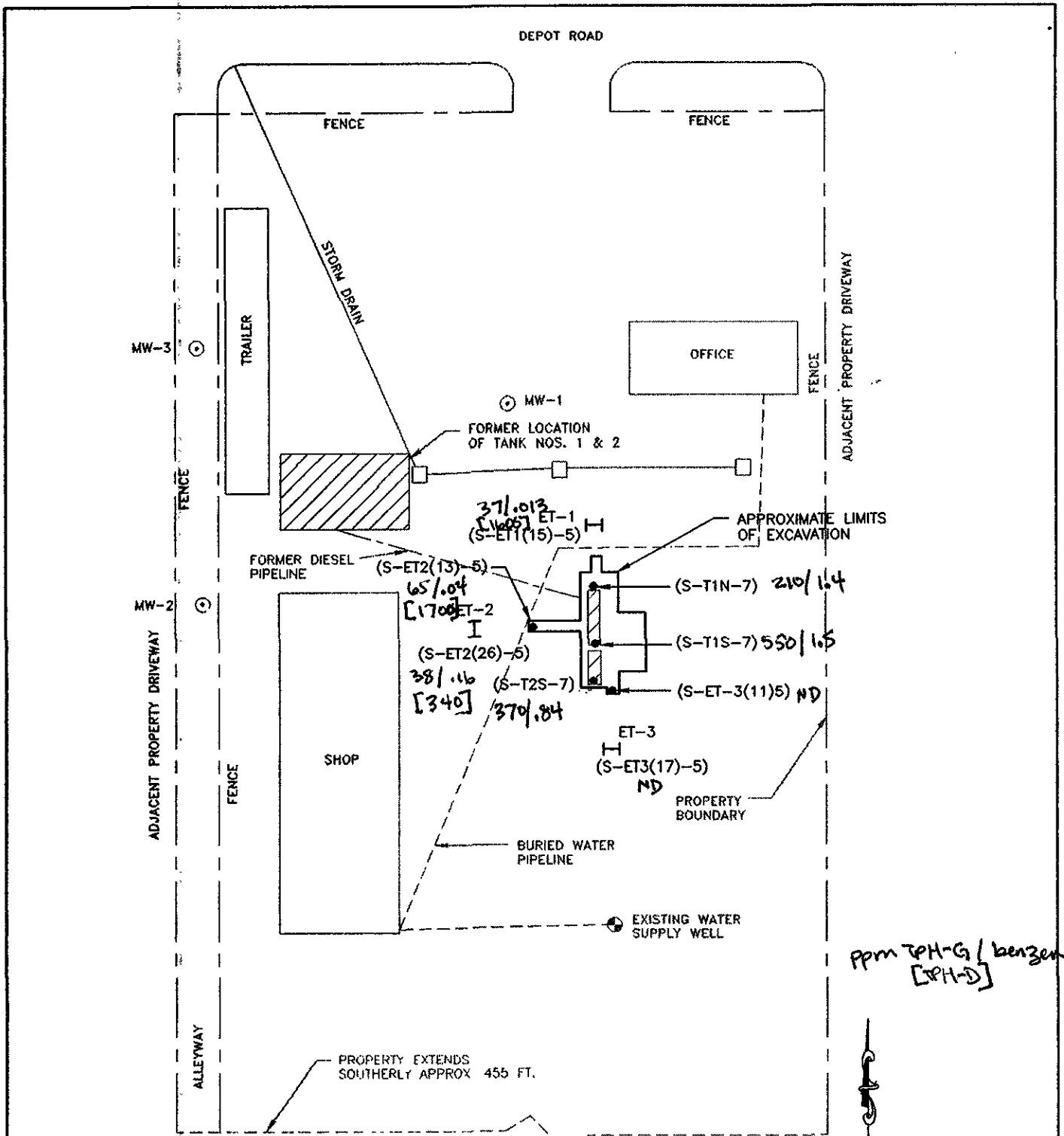







FIGURE 2  
SITE PLOT PLAN  
J & M INC./UST CLOSURE/CA

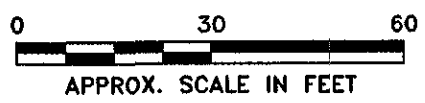
NOTE: Base map modified from Geoenvironmental and Geologic Services.



ppm TPH-G / benzene  
[TPH-D]

**EXPLANATION:**

- MW-3  EXISTING GROUNDWATER MONITORING WELL
-  STORM DRAIN
-  BURIED WATER PIPELINE
-  ET-1 (S-ET1(15)-5) EXPLORATORY TRENCH AND (SAMPLE I.D.)
-  (S-T1N-7) EXCAVATION SOIL SAMPLE AND (SAMPLE I.D.)



**FIGURE 3**

**EXCAVATION AND SOIL SAMPLING LOCATIONS**

J & M INC./UST CLOSURE/CA

NOTE: Base map modified from Geoenvironmental and Geologic Services.

**APPENDIX A**  
**Tank Removal Permits**

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

11/1/92

UNDERGROUND TANK CLOSURE PLAN  
\* \* \* Complete according to attached instructions \* \* \*

1. Business Name J & M, INC.  
Business Owner Manuel Marques, President
2. Site Address 3826 Depot Road  
City Hayward Zip 94543 Phone 782- 3434
3. Mailing Address Post Office Box 128  
City Hayward Zip 94543 Phone 782-3434
4. Land Owner Manuel Marques, Jr.  
Address P.O. Box 128 City, State Hayward, CA Zip 94543
5. Generator name under which tank will be manifested J & M, INC.  
EPA I.D. No. under which tank will be manifested CAL 9124 72836

6. Contractor A.M.G. Pipeline Inc  
Address 42536 Osgood Rd  
City Fremont, Ca 94539 Phone (510) 490-4432  
License Type\* A ID# A3739

\*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 GOLDER ASSOCIATES INC.  
Address 1451 Harbor Bay Parkway, Suite 1000  
City Alameda Phone (510)521-0400

8. Contact Person for Investigation  
Name Kent R. Reynolds Title Senior Hydrogeologist  
Phone (510) 521-0400

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

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name Evergreen Oil, Inc. EPA I.D. No. CAD980887418  
Hauler License No. 0242 License Exp. Date 7/92  
Address 6880 Smith Avenue  
City Newark State CA Zip 94560

b) Product/Residual Sludge/Rinsate Disposal Site

Name Evergreen Oil, Inc. EPA I.D. No. CAD980887418  
Address 6880 Smith Avenue  
City Newark State CA Zip 94560

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD009466392  
Hauler License No. 0019 License Exp. Date May 31, 1994  
Address 255 Parr Blvd.  
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

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

11. Experienced Sample Collector

Name Kent R. Reynolds  
Company Golder Associates Inc.  
Address 1451 Harbor Bay Parkway, Suite 1000  
City Alameda State CA Zip 94502 Phone (510) 521-0400

12. Laboratory

Name APPL, Inc.  
Address 4203 West Swift Avenue  
City Fresno State CA Zip 93722  
State Certification No. 1312

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, LEL levels <15 O<sub>2</sub> levels <10

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)		
1,000 gal.	leaded gasoline	soil, groundwater	1 soil sample at each end of each tank at soil/water interface, or; 1 sample beneath each end of each tank a maximum of 2 feet below backfill contact w/ native soil  no piping requiring sampling
550 gal.	leaded gasoline	soil, groundwater  If groundwater present in either or both pits- 1 sample of g.w. from each pit or if 2 tanks in same pit, 1 sample of g.w.	

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	
<b>Stockpiled Soil Volume (Estimated)</b>  250 yd <sup>3</sup>	<b>Sampling Plan</b> plastic sheeting under and over until excavation sample analysis completed; if contaminated 1 sample per 50yds <sup>3</sup> or as required for offsite disposal; or 1 sample per 20yds <sup>3</sup> for onsite reuse. Sample analysis to include TPH-G and BTEX.

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	
			Soil (ppm)	Water (ppb)
TPH-G	5030	5030	.1	50
BTEX	5030	5030/8020	0.02	0.5
Total lead	7421	7421	5	3

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Unicare 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) Tony Goncalves (A.M.G. Pipeline Inc)

Signature [Handwritten Signature]

Date September 30, 1993

Signature of Site Owner or Operator

Name (please type) Manuel Marques

Signature [Handwritten Signature]

Date [Handwritten Date]

# ALAMEDA COUNTY FIRE DEPARTMENT

APPLICATION # 94-190

## FIRE DEPARTMENT/PLANS APPLICATION

FIRE MARSHAL'S OFFICE  
1426 164th Avenue  
San Leandro, CA 94578  
510-670-5853 • FAX 510-276-5915

APPLICATION TYPE: \_\_\_\_\_ DATE REC'D: 6/23/94 BY: [Signature]  
CATEGORY: \_\_\_\_\_

### ► PROJECT INFORMATION

PROJECT ADDRESS: 3826 Depot Road CROSS STREET: Calcut Blvd.  
CITY: Hayward ZIP: 94543 JOB PHONE: 510-782-3434  
APN #: \_\_\_\_\_ SDR #: \_\_\_\_\_ PM/TRACT MAP #: \_\_\_\_\_

DESCRIPTION OF WORK/ACTIVITY:  
Removal of 1-1,000 + 1-500 gallon on-line UST BUILDING PERMIT #: \_\_\_\_\_

### ► APPLICANT

NAME: Kent Reynolds (owner) PHONE # (H): 510-672-6058 (W): 510-521-0400  
ADDRESS: 1451 Harbor Bay Pkwy Alameda, CA ZIP: 94507

### ► OWNER

NAME: Manuel Marquez PHONE # (H): \_\_\_\_\_ (W): 510-782-3434  
ADDRESS: 3826 Depot Road Hayward, CA ZIP: 94543

### ► CONTRACTOR

NAME: A.T. Pipeline Inc. PHONE # (H): \_\_\_\_\_ (W): 510-490-4432  
ADDRESS: 42536 Sigel Road Fremont, CA ZIP: 94539  
CONTRACTOR'S LICENSE TYPE & NUMBER: A A3739

► = APPLICANT TO FILL IN THESE SECTIONS

APPLICANT'S SIGNATURE: [Signature] DATE: 6/23/94

### FOR OFFICE ONLY

### FEES

Fees are due and payable by check or money order, made out to Alameda County Fire Department, upon submittal of plans and application. If additional fees are required, such shall be paid prior to issuance of a Certificate of Occupancy, project final, or a Fire Permit.

BASE FEE REQUIRED: \$ 120.00 REC'D BY: [Signature] DATE: 6/23/94  
CONSULTANT'S FEE: \$ \_\_\_\_\_ REC'D BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ADDITIONAL FEES: \$ \_\_\_\_\_ REC'D BY: \_\_\_\_\_ DATE: \_\_\_\_\_

### APPROVALS

FIRE PERMIT #: \_\_\_\_\_ ISSUED DATE: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_  
PERMIT ISSUED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ FEE: \_\_\_\_\_  
APPLICATION/PLANS APPROVAL: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**APPENDIX B**

**Manifests for Disposal of Tanks  
and  
Tank Liquids**

3253514  
 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. <b>CA119124728BK63816714</b>	Manifest Document No. <b>3816714</b>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>PAVIL INC Post Office Box 128 Hayward, CA 94543</b>							
4. Generator's Phone <b>(510) 782-3434</b>							
5. Transporter 1 Company Name <b>Frickson, Inc.</b>						6. US EPA ID Number <b>CA119124728BK63816714</b>	
7. Transporter 2 Company Name						8. US EPA ID Number	
9. Designated Facility Name and Site Address <b>TRITCO, INC. 255 Fall Blvd. Bldg 10-1, CA 94501</b>						10. US EPA ID Number <b>CA119124728BK63816714</b>	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)  a. <b>NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.</b>		12. Containers		13. Total	14. Unit		
		No.		Quantity	Wt/Vol		
		Type					
		<b>002 TIF</b>		<b>1550 P</b>			
		b.					
c.							
d.							
15. Special Handling Instructions and Additional Information  <b>Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name: Manuel Marques Phone (510) 782-3434</b>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the 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 federal, state and international laws.  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 <b>MANUEL MARQUES</b>		Signature <i>Manuel Marques</i>		Month Day Year <b>07 25 91</b>			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Maurine Bunce</b>		Signature <i>Maurine Bunce</i>		Month Day Year <b>07 25 91</b>			
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 <b>DAVID SATO</b>		Signature <i>DAVE SATO</i>		Month Day Year <b>07 25 91</b>			

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDf SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.  
 (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

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

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>CA16911247283636872</b>		Manifest Document No. <b>1 of 1</b>		2. Page 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address <b>J&amp;M Inc. PO Box 128 3826 Depot Rd. Hayward CA. 94543</b>						834 8872 431278 108-4000-220 102160 102160 CA010431216107102 415-368-5576											
4. Generator's Phone <b>510 782-3489</b>																	
5. Transporter 1 Company Name <b>Allied Oil &amp; Pumping</b>			6. US EPA ID Number <b>CA11010101141177</b>														
7. Transporter 2 Company Name <b>Interstate Environmental</b>			8. US EPA ID Number <b>CA101010217837</b>														
9. Designated Facility Name and Site Address <b>Gibson Environmental 475 Seaport Blvd. Redwood City CA. 94063</b>										10. US EPA ID Number <b>CA1010431216107102</b>							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) <b>a. RD HAZARDOUS WASTE Liquid, 9, NA3082, III</b>										12. Containers		13. Total		14. Unit			
										No.		Type		Quantity		Wt/Vol	
										01011		T/T		990180		G	
										b.							
										c.							
15. Special Handling Instructions and Additional Information <b>Rubber Gloves Emergency Phone 408-431-0333 P. Shipman</b>																	
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 <b>Genny Marques</b>				Signature <i>Genny Marques</i>		Month <b>07</b>		Day <b>29</b>		Yr <b>99</b>							
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Tim Liggett</b>				Signature <i>Tim Liggett</i>		Month <b>07</b>		Day <b>29</b>		Yr <b>99</b>							
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Tim Liggett</b>				Signature <i>Tim Liggett</i>		Month <b>08</b>		Day <b>01</b>		Yr <b>99</b>							
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 <b>JONATHON H. MCBRIDE</b>																	
				Signature <i>Jon McBride</i>		Month <b>08</b>		Day <b>02</b>		Yr <b>99</b>							

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.  
 (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days

**APPENDIX C**

**Laboratory Report  
Soil Sampling Results**





# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 26-July-1994

ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES  
by EPA SW-846 Methods 5030/8015M/8020.

Chronology				Laboratory Number 58481		
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
S-TIN-7	07/25/94	07/25/94	07/26/94	07/26/94		1
S-TIS-7	07/25/94	07/25/94	07/26/94	07/26/94		2
S-T2S-7	07/25/94	07/25/94	07/26/94	07/26/94		3



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 26-July-1994

## ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Laboratory Number	Sample Identification	Matrix
58481- 1	S-TIN-7	Soil
58481- 2	S-TIS-7	Soil
58481- 3	S-T2S-7	Soil

### RESULTS OF ANALYSIS

Laboratory Number: 58481- 1 58481- 2 58481- 3

Gasoline_Range:	210	550	370
Benzene:	1.4	1.5	0.84
Toluene:	2.5	2.1	0.83
Ethyl Benzene:	2.8	7.1	4.4
Total Xylenes:	14	26	8.9

Concentration: mg/kg mg/kg mg/kg

-- Surrogate % Recoveries --

Trifluorotoluene (SS): 101 126 129



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES Quality Assurance and Control Data - Soil

Laboratory Number 58481

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline Range:	ND<1	1	111/94	55-139	17%
Benzene:	ND<.005	.005	88/100	67-141	13%
Toluene:	ND<.005	.005	89/85	67-141	5%
Ethyl Benzene:	ND<.005	.005	86/81	67-141	6%
Total Xylenes:	ND<.005	.005	94/90	67-141	4%

### Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- mg/kg = Parts per million (ppm)
- QC File No. 58481

*Cecilia G. Joagued* 7/26/99  
 Senior Chemist  
 Account Manager



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 02-August-1994

---

ANALYSIS FOR TOTAL LEAD  
by EPA Method SW-846 7421

Chronology

Laboratory Number 58481

---

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
S-TIN-7	07/25/94	07/27/94	08/01/94	08/01/94		1
S-TIS-7	07/25/94	07/27/94	08/01/94	08/01/94		2
S-T2S-7	07/25/94	07/27/94	08/01/94	08/01/94		3

---



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 02-August-1994

---

## ANALYSIS FOR TOTAL LEAD

Laboratory Number	Sample Identification	Matrix
58481- 1	S-TIN-7	Soil
58481- 2	S-TIS-7	Soil
58481- 3	S-T2S-7	Soil

## RESULTS OF ANALYSIS

Laboratory Number: 58481- 1 58481- 2 58481- 3

---

Total Lead	(Pb):	4.2	5.9	6.4
Concentration:		mg/Kg	mg/Kg	mg/Kg



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

ANALYSIS FOR TOTAL LEAD  
Quality Assurance and Control Data - Soil

Laboratory Number 58481

Compound	Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Total Lead (Pb):	ND<0.5	0.5	104/97	75-125	7%

**Definitions:**

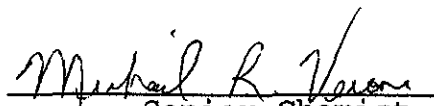
ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/Kg = Parts per million (ppm)

QC File No. 58481

  
 Senior Chemist  
 Account Manager

LAB JOB# 58481

# Chain of Custody and Analysis Request

Page 1 of 1

Superior Precision Analytical  
 1.555 Burke Street, Unit I  
 San Francisco, CA 94124  
 Phone: (415) 647-2081 Fax: (415) 821-7123  
 Contact: Rich / Cecilia

**TURN AROUND TIME**  
 Same Day 72 Hrs.  
 24 Hrs. 48 Hrs.  
5 Day 10 Day

**Bill To:**  
 Superior Precision Analytical Inc.  
 P.O. Box 1545  
 Martinez, California 94553

Project No.: 943-7017 P.O. No. 58481

**Analysis Request**

Work Subcontracted to: Superior MTB

Laboratory Sample ID	Client Sample ID	S Soil A - Air W - Water	Reactivity	CAM 17	Metals (7421) Pb	COD	Ammonia	TOC	RO10	Date Sampled	# of Containers	Preservatives	COMMENTS
58481-1	S-TIS-7 <del>TANK 1</del>	S			X					7/25	1	N	= Please fax invoice or quote ASAP
-2	S-TIS-7 <del>TANK 2</del>	↓			↓					↓	↓	↓	= Please fax results to Superior, San Francisco
-3	S-TIS-7 <del>TANK 3</del>	↓			↓					↓	↓	↓	X Please fax results to our client (see attached COC)

Relinquished By: K. Carlson  
 Organization: SPA SF

Relinquished By: [Signature]  
 Organization: \_\_\_\_\_

Relinquished By: [Signature]  
 Organization: \_\_\_\_\_

Date 7-26-94 Time 2:00  
 : am/pm

Date    Time     
 :   /  

Date    Time     
 :   /  

Received By: \_\_\_\_\_  
 Organization: \_\_\_\_\_

Received By: [Signature]  
 Organization: \_\_\_\_\_

Received By: [Signature]  
 Laboratory: SPD MTB

Date    Time     
 :   /  

Date    Time     
 :   /  

Date 7-26-94 Time 2:00  
 : am/pm

Lab - Please initial the following:

Samples Stored in Ice: Yes

Appropriate Containers: Yes

Samples Preserved: No

VOAs without headspace: No

Comments: 3 cont.

CHAIN OF CUSTODY RECORD

PROJ. NO. 943-7017 SITE/LOCATION JEM Inc / Hayward Ca

SAMPLERS: (Signature) *Kent Reynolds*

STA. NO.	DATE	TIME	SAMPLE TYPE	MEDIA	SAMPLE IDENTIFICATION	NO. OF CONTAINERS	AMOUNT / PRESERVATIVE				SEAL NO.	SEAL INTACT? (Y/N)	REMARKS (with initials)
							TPH	G	BTEX	Total Lead			
Tank 1	7/25/94		Grab	Soil	<sup>ker</sup> S-TIN-7	1	✓	✓					#24 hour turn around
Tank 1	"		"	"	S-TIS-7	1	✓	✓					for TPH-G+BTEX
Tank 2	"		"	"	S-T2S-7	1	✓	✓					** regular 5 day turnaround for lead

Please initial: OK  
 Samples stored in ice yes 50C  
 Appropriate containers yes  
 Samples preserved NA  
 VOA's without hoodspace NA  
 Comments: 3 cores

Relinquished by: (Signature/Firm) <i>Kent Reynolds</i>	Date/Time 7/25/94	Received by: (Signature/Firm)	Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)
Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)	Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)
Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm) <i>H. Carlson SM-SF</i>	Date/Time 7/25/94 6 PM	Remarks (attachments if necessary) <i>Almeda Golden Assoit Kent. Reynolds</i>	

SUPERIOR LAB FILE 04158217 123 10:28 01/28/94





# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 03-August-1994

ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES  
by EPA SW-846 Methods 5030/8015M/8020.

## Chronology

Laboratory Number 58491

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
S-ET1 (15) -5	07/26/94	07/27/94	07/29/94	07/29/94		1
S-ET2 (13) -5	07/26/94	07/27/94	07/29/94	07/29/94		2
S-ET2 (26) -5	07/26/94	07/27/94	07/30/94	07/30/94		3
S-ET3 (11) -5	07/26/94	07/27/94	08/03/94	08/03/94		4
S-ET3 (17) -5	07/26/94	07/27/94	08/02/94	08/02/94		5



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 03-August-1994

## ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Laboratory Number	Sample Identification	Matrix
58491- 1	S-ET1(15)-5	Soil
58491- 2	S-ET2(13)-5	Soil
58491- 3	S-ET2(26)-5	Soil
58491- 4	S-ET3(11)-5	Soil
58491- 5	S-ET3(17)-5	Soil

### RESULTS OF ANALYSIS

Laboratory Number:	58491- 1	58491- 2	58491- 3	58491- 4	58491- 5
Gasoline_Range:	37*	65*	38*	ND<1	ND<1
Benzene:	0.013	0.041	0.16	ND<.005	ND<.005
Toluene:	0.12	0.17	0.13	ND<.005	ND<.005
Ethyl Benzene:	0.083	0.11	0.14	ND<.005	ND<.005
Total Xylenes:	0.57	0.84	0.49	ND<.005	ND<.005
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
-- Surrogate % Recoveries --					
Trifluorotoluene (SS):	92	89	104	116	135

\* Does not match typical gasoline pattern - heavier hydrocarbons present.



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES Quality Assurance and Control Data - Soil

Laboratory Number 58491

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline_Range:	ND<1	1	124/122	55-139	2%
Benzene:	ND<.005	.005	90/90	67-141	0%
Toluene:	ND<.005	.005	93/93	67-141	0%
Ethyl Benzene:	ND<.005	.005	85/85	67-141	0%
Total Xylenes:	ND<.005	.005	94/94	67-141	0%

### Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/kg = Parts per million (ppm)

QC File No. 58491

*Cecilia Joaquin* 8/4/94  
 Senior Chemist  
 Account Manager

CHAIN OF CUSTODY RECORD

53497

PROJ. NO.		SITE/LOCATION				NO. OF CONTAINERS	AMOUNT/PRESERVATIVE TPH-G, BTEX	SEAL NO.	SEAL INTACT? (YorN)	REMARKS (with initials)	
943-7017		J+M / Hayward, Ca									
SAMPLERS: (Signature)											
Kent Reynolds											
STA. NO.	DATE	TIME	SAMPLE TYPE	MEDIA	SAMPLE IDENTIFICATION						
ET-1	7/21/94		Soil	Grabs	S-ET1(15)-5	1	✓			Standard 5-day	
ET-2	"		"	"	S-ET2(13)-5	1	✓			turnaround	
ET-2	"		"	"	S-ET2(26)-5	1	✓				
ET-3	"		"	"	S-ET3(11)-5	1	✓				
ET-3	"		"	"	S-ET3(17)-5	1	✓				
						<del>                     40C                      N/A                      N/A                 </del>					
Relinquished by: (Signature/Firm)		Date/Time		Received by: (Signature/Firm)		Relinquished by: (Signature/Firm)		Date/Time		Received by: (Signature/Firm)	
Kent Reynolds Golden		7/21/94 1630		Craig C. Hall							
Relinquished by: (Signature/Firm)		Date/Time		Received by: (Signature/Firm)		Relinquished by: (Signature/Firm)		Date/Time		Received by: (Signature/Firm)	
Craig C. Hall		7/27/94 1200		M. Wright							
Relinquished by: (Signature/Firm)		Date/Time		Received by: (Signature/Firm)		Date/Time		Remarks (attachments if necessary) Please submit to: Golden Associates Attn: Kent Reynolds			
M. Wright		7-27-94 1225		K. Carlson		7/27/94 1125					



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 10-August-1994

---

TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
BY EPA METHOD 8015M

Chronology

Laboratory Number 58541

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
S-ET1(15)-5	07/26/94	08/05/94	08/08/94	08/09/94		1
S-ET2(13)-5	07/26/94	08/05/94	08/08/94	08/09/94		2
S-ET2(26)-5	07/26/94	08/05/94	08/08/94	08/09/94		3

RECEIVED  
AUG 15 1994

Golder Associates



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GOLDER ASSOC.  
Attn: KENT REYNOLDS

Project 943-7017  
Reported 10-August-1994

---

## TOTAL PETROLEUM HYDROCARBONS AS DIESEL

Laboratory Number	Sample Identification	Matrix
58541- 1	S-ET1(15)-5	Soil
58541- 2	S-ET2(13)-5	Soil
58541- 3	S-ET2(26)-5	Soil

### RESULTS OF ANALYSIS

Laboratory Number: 58541- 1 58541- 2 58541- 3

---

Diesel Range:	1600	1700	340
Concentration:	mg/kg	mg/kg	mg/kg



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## TOTAL PETROLEUM HYDROCARBONS AS DIESEL Quality Assurance and Control Data - Soil

Laboratory Number 58541

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Diesel Range:	ND<10	10	79/86	50-150	8%

### Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- mg/kg = Parts per million (ppm)
- QC File No. 58541

*Cecilia G. Jouquin 8/11/94*  
 Senior Chemist  
 Account Manager