REMOVAL OF INACTIVE UNDERGROUND STORAGE TANKS

460 Grand Avenue
Oakland, California

29 January 1991
Project 1132A

TREADWELL & ASSOCIATES, INC.
Consulting Engineers and Scientists
San Francisco, California

JOSEPH A. ADAMS
ATTORNEY AT LAW
100 PINE STREET, 21ST FLOOR
SAN FRANCISCO, CALIFORNIA 94111
TELEPHONE (415) 421-9696

91 JAN 30 AM 10:49

January 29, 1991

Mr. Gilbert Wistar
Hazardous Material Specialist
Alameda County Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Suite 200
Oakland, CA 94621

Re: Removal of Inactive Underground Storage Tanks
460 Grand Avenue
Oakland, California

Dear Mr. Wistar:

The enclosed report is submitted on behalf of Falaschi Brothers. The inactive underground storage tanks at the subject site were removed pursuant to your letter dated 31 January 1990 and in accordance with procedures established by your office. If you have any questions, please call me at your convenience.

Very truly yours,

Joseph A. Adams

JAA:jrs
Enclosure

TREADWELL & ASSOCIATES, INC.
Consulting Engineers and Scientists
353 Sacramento Street, Suite 560
San Francisco, California 94111
(415) 955-9040

29 January 1991
Project 1132A

Falaschi Brothers
c/o Joseph A. Adams, Receiver
Adams, Sadler & Hovis
100 Pine Street, 21st Floor
San Francisco, California 94111

Subject: Removal of Inactive Underground Storage Tanks
460 Grand Avenue
Oakland, California

Dear Mr. Adams:

The removal of four inactive underground storage tanks from the property at 460 Grand Avenue in Oakland is described in the enclosed report. The work was performed in accordance with our proposal dated 11 May 1990.

We appreciate the opportunity to provide consulting services to Falaschi Brothers. If you have any questions or require further service, please call.

Sincerely yours,
TREADWELL & ASSOCIATES, INC.

Jon A. Rosso, P.E.
Senior Engineer

Donald D. Treadwell, Ph.D., P.E.
Principal Engineer

JAR:DDT:sre
Enclosure

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460 Grand Avenue
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REMOVAL OF INACTIVE UNDERGROUND STORAGE TANKS

460 Grand Avenue
Oakland, California

1.0 INTRODUCTION

The removal of four inactive underground storage tanks from the property at 460 Grand Avenue in Oakland is described in this report. Although the four tanks have been inactive since 1978, three of the tanks were previously used to store gasoline and the fourth was previously used to store waste oil. On behalf of the property owner, the removal of the tanks and associated piping was coordinated and observed by Treadwell & Associates in accordance with the guidelines of the Regional Water Quality Control Board and the Alameda County Department of Environmental Health (ACDEH).

In a letter dated 31 January 1990, the ACDEH notified the property owners (Falaschi Brothers) that the four underground tanks were to be removed. Subsequently, the owners engaged a licensed and experienced contractor (Bay Area Tank and Marine) to remove and dispose of the tanks and associated piping. They also retained Treadwell & Associates to provide consulting services, including coordination and observation of the removal operations, collection and analytical testing of samples of soil and water, and preparation of this report.

1.1 Background

As shown on Figure 1, the property is located at the northeast corner of the intersection of Grand Avenue and Bellevue Avenue in Oakland, California. The property was reportedly first developed

and operated as a service station in the late 1940s by a family partnership and Signal Oil & Gas Company (the successor-in-interest of which is apparently Allied Signal Corporation). From 1949 until 1961, the station was operated by a series of companies until it was purchased by Gulf Oil Corporation. After acquiring the property in 1961, Gulf Oil reportedly installed three new underground gasoline storage tanks to replace the underground tanks originally installed during Signal Oil & Gas Company's partial ownership of the property.

The property was purchased by Falaschi Brothers in August 1978 for commercial development purposes. At the time of purchase, the fuel dispenser units were removed and the underground storage tanks were emptied by the previous owner. Since 1978, the property has reportedly been used as a parking facility and fuel products and oils have not been delivered to, stored at, nor dispensed from the property. The current configuration of the property is shown on Figure 2.

docu-mentation?

Available historical construction drawings and aerial photographs indicate that a service station was constructed on the site in the late 1940s and subsequently remodelled and/or rebuilt in the 1960s. Construction drawings from the 1940s show three 6,000-gallon underground fuel storage tanks located in the northwestern quadrant of the site.

Building plans for the remodelling of the station in the 1960s show that the previous underground fuel storage tanks were removed and apparently replaced with three larger tanks, each of about 10,000 gallons in volume. The layout and position of the underground fuel storage tanks and pump islands in the 1960s plans are essentially the same as shown in the 1940s building plans.

The underground waste oil tank located north (at the rear) of the existing building is not shown in that position in building plans from the 1940s or the 1960s. The plans for the remodelling in the 1960s specified that a 280-gallon underground waste oil tank with a concrete apron was to have been installed south (at the front) of the existing building. Apparently, the waste oil tank planned in front of the facility was never installed.

2.0 FIELD ACTIVITIES

Field activities associated with the tank removals described in this report were performed between 27 November and 4 December 1990. The tank removal and associated activities, performed by Bay Area Tank and Marine and Treadwell & Associates, included the following:

- demolition of concrete slabs
- removal and disposal of liquids from the tanks
- high pressure washing of tank interiors
- rendering the tanks inert
- tank removal, inspection, and disposal
- piping removal, inspection, and disposal
- collection of soil and groundwater samples

Prior to beginning the tank removal operations, the required Oakland Fire Department permit was obtained and a closure plan, including a site safety plan, was submitted to and approved by the ACDEH. In addition, a permit/notification form was filed with the Bay Area Air Quality Management District. Copies of the permit and the closure plan are presented in Appendix A and Appendix B, respectively.

Gilbert Wistar of the ACDEH and Gary Collins of the Oakland Fire Department were present during the tank removal activities.

Copies of their field records for 29 November and 30 November 1990 are presented in Appendix C.

2.1 Site Preparation

Site preparation activities at the property began on 27 November 1990. Initially, the concrete slabs overlying the storage tanks, vent lines, and product lines were demolished and removed. The concrete slabs overlying the storage tanks were found to be as thick as 12 inches.

Following demolition and removal of the concrete, the liquid contents of the fuel storage tanks were found to be primarily water about 1 to 2 percent hydrocarbons. A total of about 10,000 gallons of the liquid was removed from the three tanks by vacuum trucks. After liquid removal, the product lines were flushed with water and the interiors of the tanks were triple-rinsed with a high pressure spray unit. Following rinsing, about 235 gallons of rinse water were pumped to completely empty the tanks.

All of the liquids removed from the tanks were transported by licensed haulers under hazardous waste manifests to Refineries Services in Patterson, California. Copies of the uniform hazardous waste manifests for transportation of waste liquids are presented in Appendix D.

Prior to tank removal, dry ice was inserted into each tank to eliminate explosive vapors. Approximately three pounds of dry ice per 100 gallons of tank capacity was used to render each tank inert. An explosivity meter was used to measure the vapor content, expressed as a percent of the lower explosive limit and the oxygen percentage.

Gilbert Wistar of the ACDEH and Gary Collins of the Oakland Fire Department were present during the tank removal activities. Mr. Collins approved the fire protection measures and witnessed the tank stabilization process. Copies of the signed tank removal permits issued by the Oakland Fire Department verifying the satisfactory tank stabilization are presented in Appendix B.

2.2 Removal of Inactive Gasoline Tanks

The three underground gasoline storage tanks were of single-wall steel construction and each measured about eight feet in diameter and 27 feet in length. The gasoline tank excavation extended to about 13 feet below adjacent grade with plan dimensions of approximately 30 feet by 30 feet. The limits of excavation and the tank identification numbers are shown on Figure 2.

The gasoline tanks were overlain by 4 to 5 feet of backfill material, which also extended downward at the sides and ends of the tanks. The backfill soil consisted of a brown clayey sand similar to the surrounding native soil, as opposed to inert gravel backfill. At the time of excavation, groundwater was encountered at a depth of about 11 feet (about two feet above the bottom of the tanks) as shown on Figure 3. The gasoline storage tanks were not strapped down or otherwise anchored to offset potential buoyancy effects due to groundwater.

A large excavator unit was used to uncover, excavate, and remove the three gasoline storage tanks. Once removed, the tanks were inspected prior to being loaded on the trucks. In general, the tops of the tanks were found to be in good condition. However, severe and deep pitting of the steel was evident on the bottoms and sides of all three tanks. In addition, many small holes were observed in the tanks, especially in the sides of Tank 2 (the identification numbers of the tanks are shown on Figure 2).

During the excavation process, some apparent petroleum staining was observed near the fill stem of Tank 1. Staining was also observed along the south wall and at the southwest corner of the excavation. The north and east walls of the excavation showed no apparent signs of staining or leaks.

2.3 Removal of Inactive Waste Oil Tank

The inactive waste oil storage tank was of single-wall steel construction and measured about 3.5 feet in diameter and 4 feet in length. The waste oil tank excavation extended to a depth of about 6 feet below adjacent grade with plan dimensions of approximately 12 feet by 5 feet. During the excavation of the waste oil tank, obvious staining and signs of oil leaks were apparent in the sidewalls and in the excavated backfill material. The backfill material consisted of brown clayey sand and gravel and was similar to the surrounding native soil. No free water was observed in the waste oil tank excavation.

The removed waste oil tank was inspected at the surface prior to loading on the truck. Upon inspection, relatively large holes (about 2 to 3 inches in length) were noted in the walls of the tank. These holes were not caused by the excavation and removal activities and appear to be associated with corrosion or previous damage.

Based on the apparent leakage observed in the waste oil tank area, Gilbert Wistar of the ACDEH requested that the property owners file a underground storage tank unauthorized release (leak) and/or contamination site report. The unauthorized release form was submitted to the ACHED on 4 December 1990 and a copy is presented in Appendix E.

2.4 Tank Disposal

All four tanks were transported under uniform hazardous waste manifests by licensed haulers to a certified tank destruction facility (Erickson, Inc. of Richmond, California). The empty tanks were cleaned at the Erickson facility and then destroyed as documented by the Certificates of Destruction. Copies of the uniform hazardous waste manifests and certificates of destruction are presented in the Appendix F and Appendix G, respectively.

2.5 Stockpiles of Excavated Soil

The soil excavated during the tank removal operations was stockpiled on the property and covered by plastic sheeting to prevent direct contact with pavements and rainwater and to minimize volatilization of hydrocarbon constituents into the atmosphere. Approximately 250 to 300 cubic yards of soil were removed from the gasoline tank excavations and approximately 15 cubic yards of soil were removed from the waste oil tank excavation. The locations of the soil stockpiles are shown on Figure 2.

2.6 Removal of Associated Piping

The concrete slabs covering the product and vent lines were cut using concrete saws and removed. The product pipelines were covered with approximately one foot of brown clayey sand fill and the fiberglass vent was covered with about one foot of pea gravel. A backhoe was used to remove the piping and to stockpile the pipe in the northeast corner of the site. Observations during product line removal appear to indicate that leakage occurred at the pipeline joints located between the pump islands.

3.0 COLLECTION OF SOIL AND WATER SAMPLES

Under the direction of Gilbert Wistar of the ACHED, Treadwell & Associates collected eleven soil samples and one water sample. The samples were collected on 30 November 1990 and 4 December 1990. The sample locations and identification numbers are shown on Figure 2.

Six of the soil samples (samples T1-1, T1-2, T2-1, T2-2, T3-1, and T3-2) were collected from the sidewalls of the gasoline tank excavation, approximately one foot above the existing water level. One soil sample (sample T4-1) was collected from the bottom of the waste oil tank excavation, approximately 18 inches into native soil.

was water in pit?

In addition, four soil samples (samples P-1 through P-4) were collected from the product line trench, approximately 6 inches into the underlying native soil. The soil samples from the product line trench were collected about every 20 lineal feet.

For soil samples collected from the gasoline and waste oil tank excavations, a backhoe bucket was used to retrieve undisturbed soil from the desired sampling locations in the excavation. In the pipeline trench excavation, samples were collected after removal of about 6 inches of native soil from the bottom of the trench. The sampling procedures consisted of removing loose slough to expose an undisturbed soil surface and then pushing or driving a clean brass tube into the soil mass until full. The samples were retrieved and the ends of the full tube were covered with aluminum foil, plastic end caps, and sealed with polyvinyl chloride tape.

One sample (sample W-1) of the standing water in the main tank excavation was collected during tank removal at the location

shown in Figure 2 using a clean disposable plastic bailer. The bailer was lowered and allowed to fill at a point below the water surface. The water sample was retrieved and poured directly from the bailer into the appropriate containers and sealed. The integrity and quality of sealed water samples were observed by Treadwell & Associates and by Gilbert Wistar of the ACDEH. All water sample containers were provided by the laboratory and had been prepared in accordance with standard procedures for each analysis.

All samples were placed in ice-cooled chests from the time of collection until their delivery by Treadwell & Associates to the analytical laboratory. A chain-of-custody record was completed and accompanied each sample shipment (Appendix H).

4.0 ANALYTICAL METHODS

Soil and water samples obtained during tank and pipeline removal activities were analyzed by a state-certified laboratory (Curtis & Tompkins, Ltd. of Berkeley, California, Certification No. 159). The analytical testing program for soil samples from the fuel tank and product pipelines excavations (samples T1-1, T1-2, T2-1, T2-2, T3-1, T3-2, P-1, P-2, P-3, and P-4) included the following:

- total volatile petroleum hydrocarbons (TVPH)
- benzene, toluene, xylenes, and ethylbenzene (BTXE)
- total lead concentrations

The soil sample collected from the waste oil tank excavation (sample T4-1) was analyzed using Regional Water Quality Control Board recommendations, as requested by the ACDEH, and included the following:

- o total volatile petroleum hydrocarbons (TVPH)
- o total extractable petroleum hydrocarbons (TEPH)
- o benzene, toluene, xylenes, and ethylbenzene (BTXE)
- o oil & grease (O&G)
- o volatile organic compounds (VOCs)
- o total metal concentrations of cadmium, chromium, lead, nickel, and zinc

The water sample (sample W-1) obtained from the fuel tank excavation was analyzed for TVPH, TEPH, and BTXE. Detection limits and method numbers for each analysis are included on the laboratory reports presented in Appendix I.

5.0 ANALYTICAL RESULTS

The analytical test results are summarized on Tables 1 through 4. Copies of the Curtis & Tompkins certified laboratory reports (dated 14 December and 17 December 1990) for the analyses described above are presented in Appendix I.

5.1 Underground Gasoline Storage Tanks

Analytical test results for soil samples (samples T1-1, T1-2, T2-1, T2-2, T3-1, and T3-2) collected from the sidewalls of the gasoline tank excavation are summarized in Table 1. The analytical results for the sidewall soil samples indicate no detectable concentrations of ethylbenzene, total xylenes, or petroleum hydrocarbons as gasoline. Toluene was detected in all the sidewall samples at concentrations ranging from 0.063 milligrams per kilogram (mg/kg) to 0.220 mg/kg. Benzene was detected in one sample (sample T2-2) at a concentration of 0.019 mg/kg.

Laboratory results for sample W-1, the standing water in the gasoline tank excavation area, are summarized in Table 2. Petroleum hydrocarbons as gasoline and associated products of benzene, toluene, total xylenes, and ethylbenzene were detected in the water sample at concentrations of 2.3 milligrams per liter (mg/l), 0.053 mg/l, 0.160 mg/l, 0.160 mg/l, and 0.036 mg/l, respectively. Petroleum hydrocarbons as diesel or kerosene were not detected at or above the laboratory reporting limit. The detected concentrations of total lead ranged from <2.5 mg/kg to 3.8 mg/kg in the samples tested.

5.2 Associated Piping

The results of analytical tests on the four samples (samples P-1, P-2, P-3, and P-4) from the product pipeline area are summarized in Table 3. Concentrations of petroleum hydrocarbons as gasoline ranged from <1.0 mg/kg to 1,700 mg/kg and concentrations BTXE ranged from <0.005 mg/kg to 260 mg/kg. The higher concentrations of TVPH as gasoline and BTXE were found beneath the product pipelines between the pump islands at sample location P-1 and to a lesser extent at sample location P-2. Substantially lower concentrations were detected in samples obtained at points closer to the storage tanks.

5.3 Underground Waste Oil Tank

Analytical data for the soil sample (sample T4-1) obtained from the waste oil tank excavation is summarized in Table 4. The laboratory test results indicate O&G, TEPH as diesel, and TVPH as gasoline at concentrations of 24,000 mg/kg, 7,100 mg/kg, and 400 mg/kg, respectively. The concentrations of BTXE ranged from 1.2 mg/kg to 35 mg/kg.

In addition, two volatile organic compounds, tetrachloroethylene and 1,1,1-trichloroethane, were detected at concentrations of 1.0 mg/kg and 0.25 mg/kg, respectively. Total metal concentrations for cadmium, chromium, lead, nickel and zinc were detected at 0.8 mg/kg, 12 mg/kg, 40 mg/kg, 22 mg/kg, and 41 mg/kg, respectively.

6.0 LIMITATIONS

Descriptions of specific field activities and historical events are based on our observations, discussions with others, and information provided by the property owners. The opinions and information presented in this report apply to site conditions and the information available at the time the work was performed and do not apply to changes of which we are not aware or have not had the opportunity to evaluate.

TABLE 1

SIDEWALL SOIL SAMPLE ANALYTICAL DATA

FUEL TANK EXCAVATION

460 Grand Avenue
Oakland, California

Sample No.	TVPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	Ethyl Benzene (mg/kg)	Lead (mg/kg)
T1-1	ND	ND	0.10	ND	ND	NT
T1-2	ND	ND	0.097	ND	ND	3.8
T2-1	ND	ND	0.14	ND	ND	NT
T2-2	ND	0.019	0.065	ND	ND	ND
T3-1	ND	ND	0.220	ND	ND	NT
T3-2	ND	ND	0.063	ND	ND	3.4
Detection Limit	1.0	0.005	0.005	0.005	0.005	2.5

STLC = 5

Notes:

TVPH = total volatile petroleum hydrocarbons
mg/kg = milligram per kilogram
ND = not detected at or above reporting limit
NT = not tested

but fuel tanks had holes

TABLE 2

ANALYTICAL DATA FOR WATER SAMPLE W-1

FUEL TANK EXCAVATION

460 Grand Avenue
Oakland, California

Sample No.	TVPH as Gasoline (mg/l)	TEPH as Diesel (mg/l)	Benzene (mg/l)	Toluene (mg/l)	Total Xylenes (mg/l)	Ethyl Benzene (mg/l)
W-1	2.3 = 2,300ppb	ND	0.053 = 53ppb	0.160	0.160	0.036

Notes:

TVPH = total volatile petroleum hydrocarbons
TEPH = total extractable petroleum hydrocarbons
mg/l = milligrams per liter
ND = not detected at or above reporting limit

TABLE 3

PIPELINE TRENCH SOIL SAMPLE ANALYTICAL DATA

460 Grand Avenue
Oakland, California

These were collected from 6" into the native soil from the product line trench.

Sample No.	TVPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	Ethyl Benzene (mg/kg)
P-1	1,700	ND	8.7	260	47
P-2	90	ND	1.7	4.7	0.89
P-3	ND	0.0066	0.18	0.033	0.0053
P-4	ND	ND	0.036	0.0055	ND

Notes:

TVPH = total volatile petroleum hydrocarbons
mg/kg = milligram per kilogram
ND = not detected at or above reporting limit

TABLE 4

ANALYTICAL DATA FOR SOIL SAMPLE T4-1

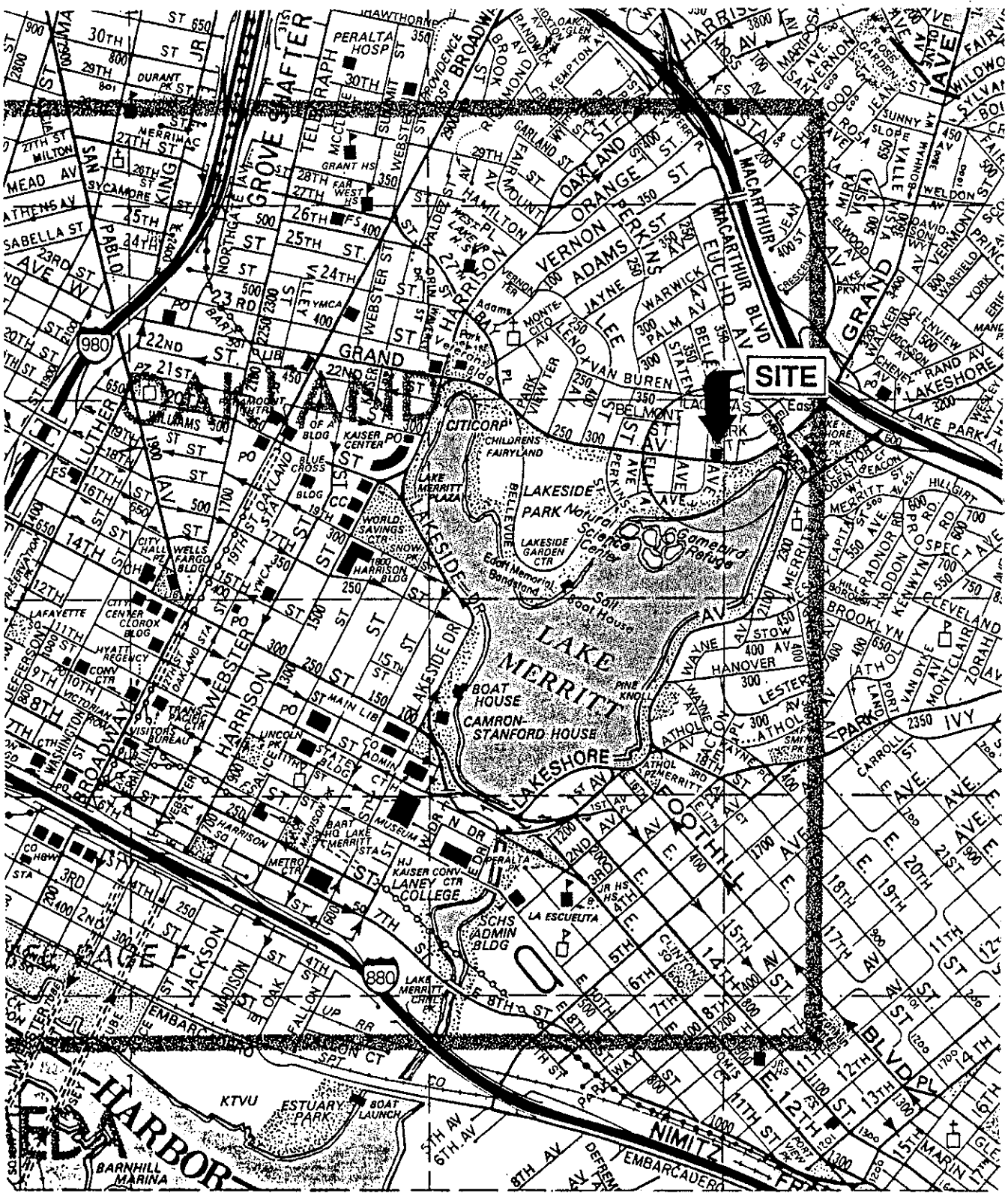
WASTE OIL TANK EXCAVATION

460 Grand Avenue
Oakland, California

Constituent	Sample T4-1 Concentration (mg/kg)
TVPH as Gasoline	400
TEPH as Diesel	7,100
Oil & Grease	24,000
Tetrachloroethylene	1.0
1,1,1-Trichloroethane	0.25
Benzene	1.2
Toluene	10
Total Xylenes	35
Ethyl Benzene	5.2
Cadmium	0.8
Chromium	12
Lead	40
Nickel	22
Zinc	41

Notes:

mg/kg = milligram per kilogram
TVPH = total volatile petroleum hydrocarbons
TEPH = total extractable petroleum hydrocarbons



Reference: Thomas Brothers Map, 1988

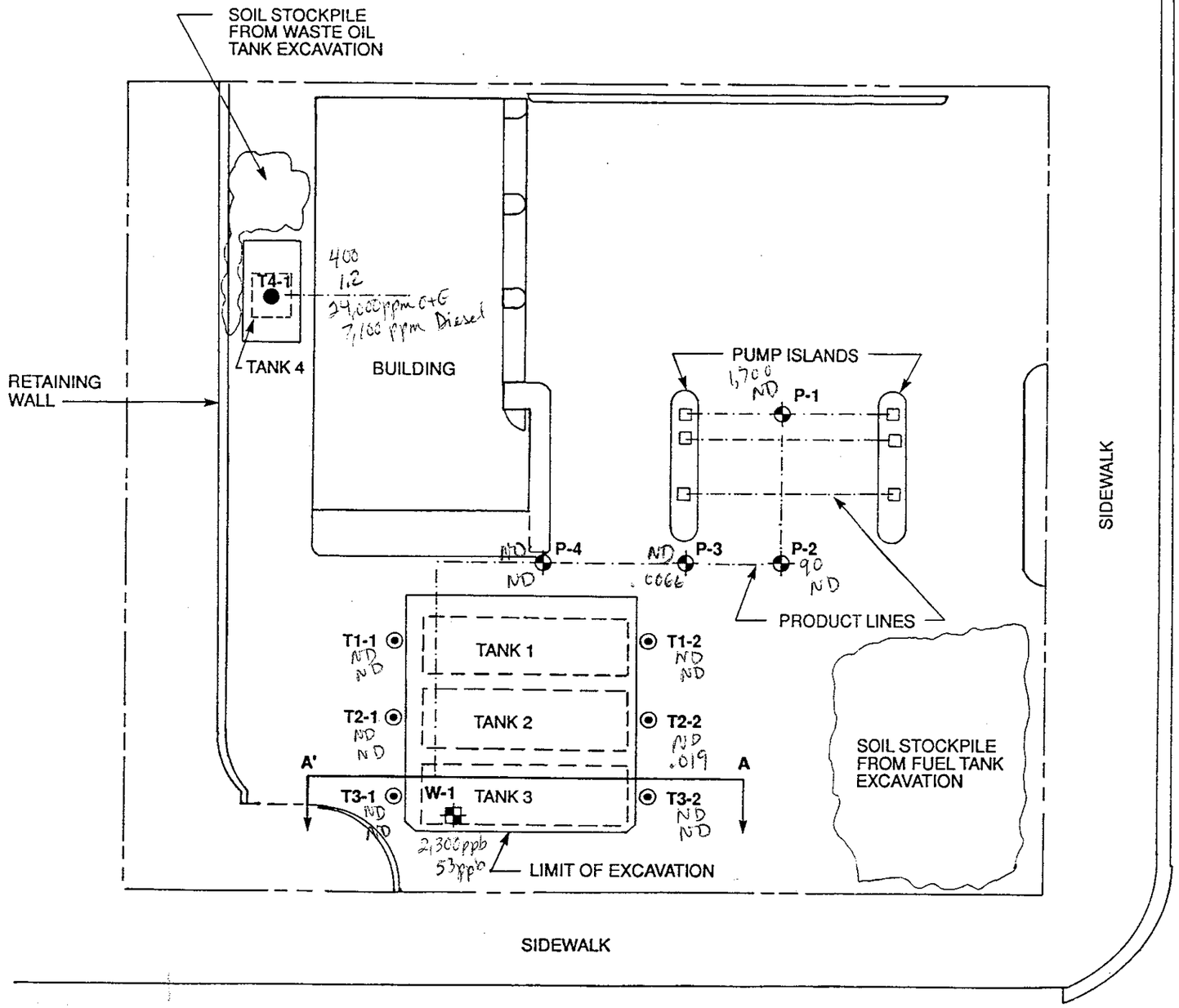
460 GRAND AVENUE (at BELLEVUE)
OAKLAND, CALIFORNIA

VICINITY MAP

TREADWELL & ASSOCIATES, INC.
Consulting Engineers and Scientists

Project No. 1132A

Figure 1



TANK NO.	CAPACITY	CONTENTS
1	10,000 gal.	GASOLINE
2	10,000 gal.	GASOLINE
3	10,000 gal.	GASOLINE
4	250 gal.	WASTE OIL

EXPLANATION

- Sidewall Soil Sample
- Pipeline Trench Soil Sample
- Soil Sample Beneath Waste Oil Tank
- Groundwater Sample From Tank Excavation

0 15

Approximate Scale in Feet

N

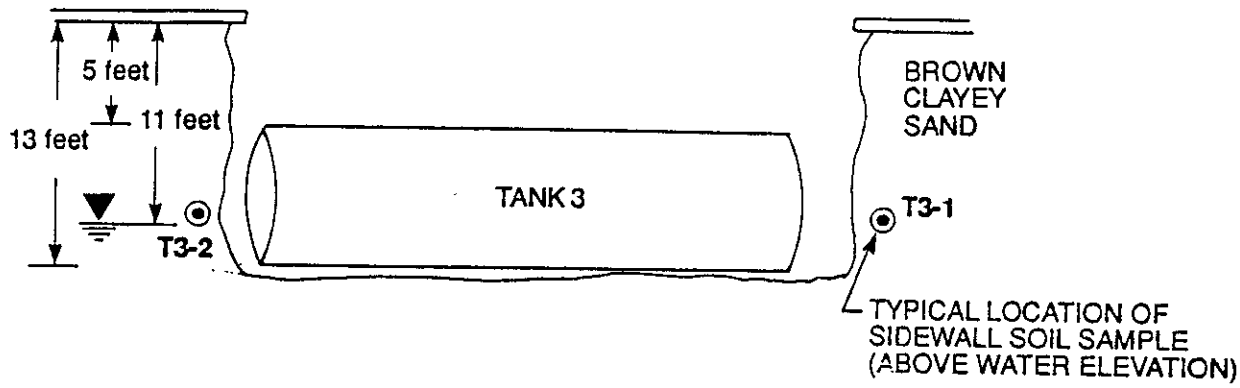
TPH-g (ppm)
benz (ppm)

460 GRAND AVENUE (at BELLEVUE)
OAKLAND, CALIFORNIA

SITE PLAN

Project No. 1132A | Figure 2

TREADWELL & ASSOCIATES, INC.
Consulting Engineers and Scientists



EXPLANATION

OBSERVED GROUNDWATER ELEVATION, 11/30/90

0 10

Scale in Feet

460 GRAND AVENUE (at BELLEVUE)
OAKLAND, CALIFORNIA

CROSS-SECTION A - A'

TREADWELL & ASSOCIATES, INC.
Consulting Engineers and Scientists

Project No. 1132A

Figure 3

APPENDIX A

CITY OF OAKLAND TANK REMOVAL PERMIT
27 November 1990

Excavation Permit Granted _____ No. _____

CITY OF OAKLAND

Tank Permit

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks.

No. 9488

Oakland, California, November 27, 1990

PERMISSION IS HEREBY GRANTED TO ~~Owner~~ remove ~~xxxx~~ Gasoline tank and excavate commencing _____ feet inside property line

on the _____ side of _____ Street Avenue _____ feet _____ of _____ Street Avenue

House No. 460 Grand Avenue Present Storage _____

Owner Falaschi Brothers Address 1940 Webster Street Phone 531-1453

Applicant Bay Area Tank & Marine, Inc. Address 4851 Sunrise Drive Unit 104 Martinez 94553 Phone 372-4270

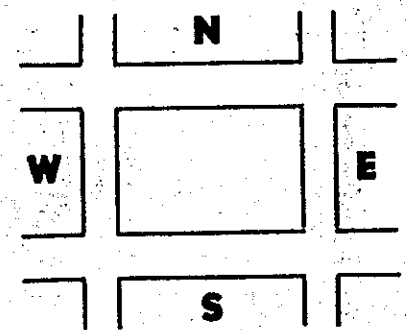
Dimensions of street (sidewalk) surface to be disturbed _____ X _____ Number of Tanks 3 Capacity 10,000 Gallons, each.
1 500

Remarks: _____

This Permit is granted in accordance with existing City Ordinances.
Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities.
When installing, removing or repairing tanks, no open flame to be on or near premises.

Approved _____ Fire Marshal

Approved _____ Drainage Division Engineering Dept.



EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 6-2.04

_____ square feet of digging or removal granted.

The receipt of $ _____ special deposit is hereby acknowledged.

GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on _____ 19____

By _____ Fire Marshal

Inspection Fee Paid . . . . . $160.00 ck#1487 rec#639053 ($40.00 due)

Received by D. Clemons
FIRE PREVENTION BUREAU

NOTICE
Before Covering Tanks, Above Certificate Must Be Signed.
When ready for inspection notify Fire Prevention Bureau, 273-3851

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.

536.68 (6-67)

City of Oakland
CASH RECEIPT

Cash Receipt № 639074

Cash Receipt Voucher # CR

Cash ☐
Check ☒ #1490

Payment Received from: Bay Area Tank + Marine, Inc.

DIRECT CASH CREDITS

Item	Remarks	Fund/SF	Organization	Account	Proj/Grant/ Cost Ctr/WO	Yr	Loc	Task	Dept Specific	Fixed Asset No	Trans ID	Revenue Source	Amount
1	U.T. test	1010	2310	4549		1							40.00
2	removal												.
3													.
4													.
5													.
												SUBTOTAL	40.00

Auxiliary Receipt Reference # Additional fee for

Explanation: ~~Lot 1~~ 460 Tank Inc.

ACCOUNTS RECEIVABLES

Item	Description	Customer Number	Invoice Number	Amount
1				.
2				.
3				.
4				.
5				.
			SUBTOTAL	.
			TOTAL	40.00

Fire Prevention
Department Collecting the Cash

G. M. Johnson 11/27/90
Received by

Received by: Entered by:

Treasury Section

RRCC or Grant Fiscal Affairs

010-010-6 (7/88)

Original to Customer, Yellow to Revenue Reporting/Cash Collection or Grant Fiscal Affairs Section, Pink to Treasury Section, Goldenrod to Originating Department

APPENDIX B

UNDERGROUND TANK CLOSURE PLANS
Alameda County Department of Environmental Health
25 October 1990

8. Contact Person for Investigation

Name _____ Title _____

Phone _____

9. Total No. of Tanks at facility 4

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

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name ReFinerics Service EPA I.D. No. CAD083166728

Address 13331 N. Highway 33

City Patterson State Ca Zip 95363

b) Rinsate Transporter

Name ReFinerics Service EPA I.D. No. CAD083166728

Address 13331 N. Highway 33

City Patterson State Ca Zip 95363

c) Tank Transporter

Name H & H Ship Service EPA I.D. No. CAD004771168

Address 220 China Basin rd

City San Francisco State Ca Zip 94107

d) Tank Disposal Site

Name H & H Ship Service EPA I.D. No. _____

Address 220 China Basin rd

City San Francisco State Ca Zip _____

e) Contaminated Soil Transporter

Name Bay Area Tanks Marin EPA I.D. No. CAL000027690

Address 4851 Sunrise Drive, Unit 104

City Martinez State Ca Zip 94553

12. Sample Collector

Name Company representative

Company Treadwell & Associates

Address 353 Sacramento St., Suite 569

City San Francisco State Ca Zip 94553 Phone (415) 955-9040

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
10,000	Gas		
10000	Gas		
10000	Gas		
500	Waste oil		

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

If yes, describe. _____

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

If yes, describe. Dry ice will be placed into tank at a rate of 3 lbs dry ice per 100 Gallon Capacity.

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

16. Laboratories

Name Superior Lab

Address 825 Arnold Drive Suite 114

City Martinez State Ca Zip 94553

State Certification No. 319,220

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
GAS TANKS < Gasoline, BTEX	5030	EPA 8015, 8020
TPH - gasoline	5030	8015
TPH - diesel	3550	8015
BTEX	5030	8020
Total oil & grease		5520 D/F
cl. hydrocarbons		8010/8240

18. Submit Site Safety Plan

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

Copy of Certificate enclosed? Yes [X] No [ ] → on File already

Name of Insurer State Comp Insur Fund

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 Saftey 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) Forrest Garrett

Signature _____

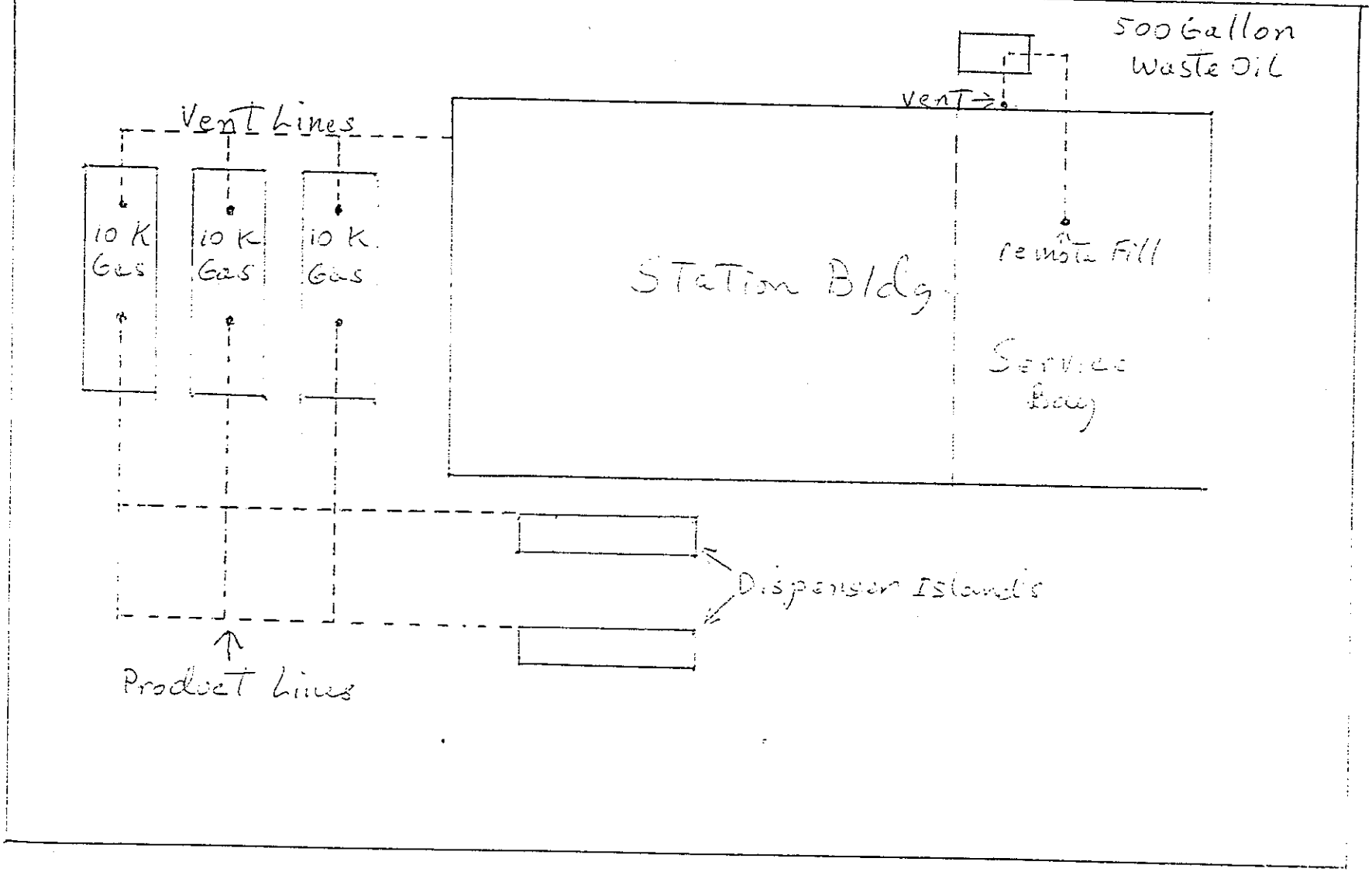
Date 10/16/90

Signature of Site Owner ~~or Operator~~

Name (please type) FALASCHI BROTHERS

Signature _____

Date 10/22/90



Bellvee

460 Grand Avenue

N.O.T. To Scale	Contractor: Bay Area Tank & Marine 4851 Sunrise Dr, Unit 104 Martinez, Ca 94553	Site Address: Former Service Station 460 Grand Avenue Oakland, Ca	Property Owner: Mr. Robert Falaschi 1940 Webster Oakland, Ca 94612

SCOPE OF WORK

the scope of work for this project is to: obtain the tank removal permits; pump and dispose of the liquids in the tank as a hazardous waste; breaking and disposal of the concrete islands and pads over the tanks; excavation; removal and disposal of the tanks, pumps and piping at a licensed TSDF; sampling and analysis of the soil beneath each tank; backfill and compaction of the excavations; resurfacing of the excavations with asphalt. (optional work: Clean the trench in the car wash; appropriately dispose of collected wastes; clean the separator sump; break and remove the sump; seal piping leading to the sewer; backfill and compact the excavation; resurface with asphalt to match extisting conditions.

WORK PLAN

Bay Area Tank & Marine will perform the tank removal services in accordance with all applicable codes and regulations. The services performed will include the following items:

1.0 Permits:

Bay Area Tank & Marine will obtain the permits necessary for removal of the underground tanks. The permits required will include Fire Department and Public Health Department.

2.0 Site Preparation:

The site will be prepared for excavation of the tanks by: pumping all liquids from the tank and transporting the liquids as a waste to a licensed TSDF; inerting the tanks; securing the work area with barricades or fencing; posting the applicable warning signs; locating utilities; shutting off the electrical current to the pumps and any other

electrically operated apparatus in the work area.

3.0 Tank Excavation:

The underground tanks will be removed by breaking the concrete cover over the gasoline tanks and the concrete dispenser islands using a back-hoe mounted concrete breaker or other device. The rubble that is generated from the breaking will be loaded onto trucks and transported to a recycler or class 3 landfill for disposal. Once the cover is removed, the back fill material around the tanks will removed using an excavator or back-hoe. The backfill will be field tested as it is excavated using combustible gas meters and olfactory senses to identify and separate any contaminated material that may be encountered.

4.0 Tank removal and disposal:

Once the back fill has been excavated from around the tanks, the tanks will be lifted from the excavation using an excavator or crane, cleaned off for inspection by the attending regulating agency(s), and loaded onto trucks for transportation and disposal (under manifest) at a licensed TSDF. Documentation of the tanks final destination will be provided at the completion of the project.

5.0 Sampling and analysis:

After the tanks have been removed from the excavation, an excavator or back hoe will be used to obtain soil from the excavation and piping trenches for sampling (from areas specified by the health department inspector). The samples will be taken, transported and analyzed at a DOHS approved laboratory. The method of analysis and material to be analyzed will be determined by the Health Department. The analytical results will be transmitted to the Health Department for evaluation within the time limits described in the tank removal permit.

6.0 Backfill and compaction:

The tank excavation will be backfilled and compacted using the following material: Drain rock will be placed in the excavation if it contains ground water, otherwise a sandy fill will be placed and compacted in twelve inch lifts to within nine inches from grade and base rock will be placed and compacted from nine inches to three inches from grade.

7.0 Resurfacing:

The area around each tank excavation will be saw cut and resurfaced with a three inch layer of asphalt.

8.0 Report:

At the completion of the project, a report will be provided that describes the field activities, and includes: sample analysis results; chain of custodies; documentation of disposal of the tanks.

9.0 Timetable:

Bay area Tank & Marine Inc. can begin work on this project within five days of notification to proceed. The estimated completion time from start of work is 30 calendar days.

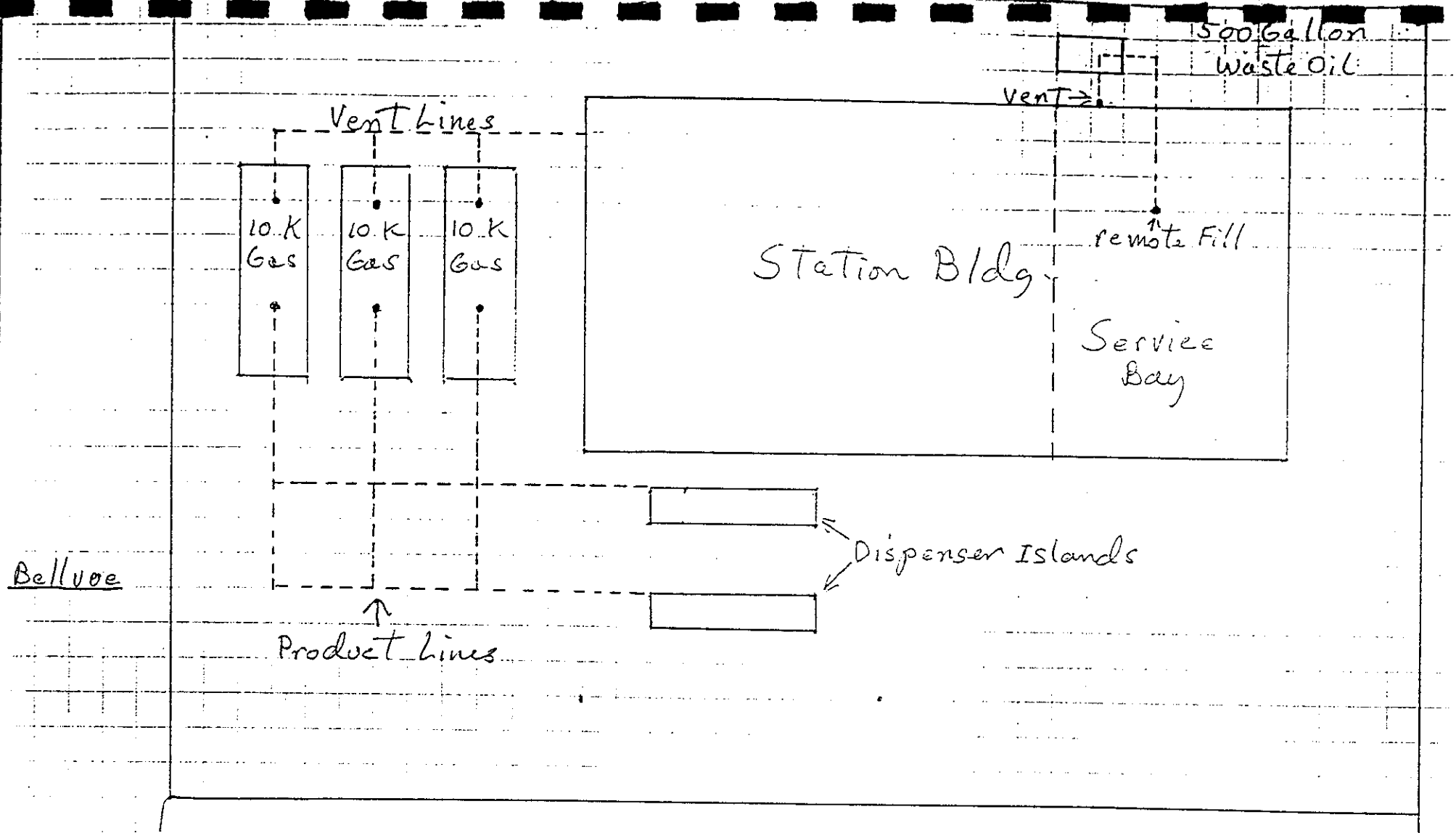
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

11/8/90

Project # 5277.77
Fee Paid $933.00
Date 10/25/90

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name Former Service Station
   Business Owner Closed
2. Site Address 460 Grand Avenue
   City Oakland Zip 94612 Phone None
3. Mailing Address 1940 Webster
   City Oakland Zip 94612 Phone (415) 531-1453
4. Land Owner Falaschi Brothers a partnership
   Address 1940 Webster City, State Oakland Ca. Zip 94612
5. EPA I.D. No. CAC 000 530 544
6. Contractor Bay Area Tanks + Marine inc.
   Address 4857 Sunrise Drive, Unit 104
   City Martinez, Ca 94553 Phone (415) 372-4220
   License Type A ID# 572244
7. Consultant Treadwell + Associates
   Address 353 Sacramento St, Suite 569
   City San Francisco Ca. 94111 Phone (415) 955-9040



	Contractor:	Site Address:	Property Owner:
not	Bay Area Tank & Marine	Former Service Station	Mr. Robert Falaschi
To	4851 Sunrise Dr, Unit 104	460 Grand Avenue	1940 Webster
Scale	Martinez, Ca 94553	Oakland, Ca	Oakland, Ca 94612

STATE COMPENSATION INSURANCE FUND

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

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

April 20, 1989

POLICY NUMBER 1098627-88
CERTIFICATE EXPIRES 10-1-90

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 ten days' advance written notice to the employer.

We will also give you TEN 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.

John A. Doolittle

PRESIDENT

EMPLOYER

Bay Area Tank & Marine
2681 Over Look Drive
Walnut Creek, CA 94596

SCOPE OF WORK

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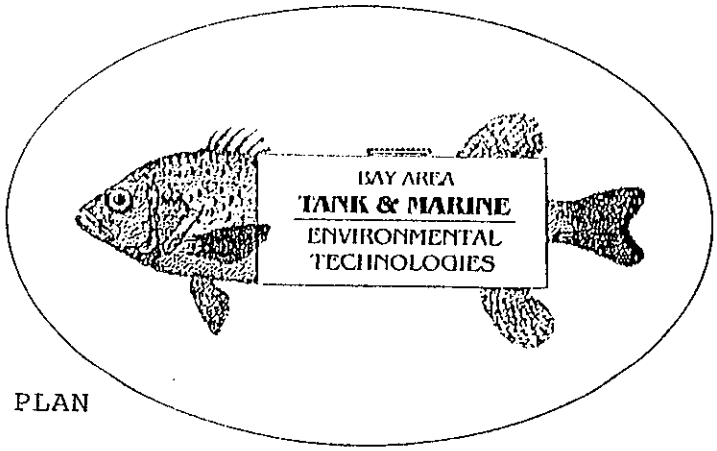
Bay area Tank & Marine Inc. can begin work on this project within five days of notification to proceed. The estimated completion time from start of work is 30 calendar days.

10/16/90



SITE SAFETY PLAN

for
Underground Tank Removals
At 460 Grand Avenue,
Oakland, Ca.

The following site safety plan has been prepared to address the health and safety requirements for the removal of underground tanks at Grand Avenue in the city of Oakland, California.

1.0 FACILITY BACKGROUND

Located at the south corner of Bellvue and Grand Avenue in the city of Oakland is a former automotive service station. The building and fueling system have not been removed from the site. The fueling system consists of three 10,000 gallon underground gasoline storage tanks (the tanks are located parallel to Bellvue and are contained in a single excavation) and one 500 gallon underground waste oil tank (located behind building along the estern border of the property).

2.0 SCOPE OF WORK:

The scope of work to: obtain permits; remove tanks according to the site specific work plan; sample and analyze the excavation; backfill and resurface the exavation as required; perform all work without threat to the environment, public, and workers.

3.0 KEY PERSONNEL AND RESPONSIBILITIES:

The key personnel and responsibilities for this project are as follows: Forrest Canutt, Project manager, Bay Area Tank & Marine inc., responsible for safety of public and workers, performance of tasks and adherence to health and safety

2681 Overlook Drive • Walnut Creek, CA 94596 • (415) 944-9219

requirements; Treadwell & Associates Inc., Property owners representative, contact for regulatory and technical information.

Telephone numbers of key responsible parties:

Bay Area Tank & Marine Inc.: (415) 944-9219

Treadwell & Associates Inc.: (415) 955-9040

4.0 JOB HAZARD ANALYSIS

The potential chemical and physical hazards at this site are as follows:

4.1 PHYSICAL HAZARDS:

4.1.1 slip, trip, fall hazards due to uneven work area

4.1.2 noise, eye and bodily hazards while operating equipment

4.1.3 hazards to hands and feet when handling heavy or sharp materials or equipment

4.1.4 exposure to heat or cold stress

4.1.5 Moving heavy equipment

4.1.6 Steps to Minumize Hazards: Wear proper protective equipment, familiarize workers with site conditions, monitor for heat and cold stress, operate equipment in a safe manner and designate restricted work zones before starting work.

4.2 CHEMICAL HAZARDS:

4.2.1 Gasoline contamination may be present at the site. The exposure limits of the petroleum contaminants are as follows:

NAME	WARNING CONCENTRATION	TLV	IDLH
Gasoline	.005-10 PPM	300 PPM	-
Benzene	4.68 PPM	10 PPM	2K PPM

Ethyl Benzene	0.25-200 PPM	100 PPM	2K PPM
Toluene	.17-40 PPM	100 PPM	2K PPM
Xylene	0.05-200	100 PPM	10K PPM

4.2.2 ROUTES OF EXPOSURE:

Inhalation: Gas, BTEX
Ingestion: Gas, BTEX
Absorption: Gas, BTEX

5.0 RISK ASSESSMENT

5.1 General Public: The site is fenced and restricted from public access.

5.2 Other Workers: All work being performed by others is being conducted outside of the work area and is unrelated to the work being performed.

5.3 Surrounding Property: There are no structures in the area that will be impaired by the treatment operation.

5.4 Workers Performing Services: The risks associated with the remediation operation can be minumized by safe work practices and proper protective equipment.

6.0 EXPOSURE MONITORING PLAN:

6.1 Hazardous Vapors: The work site will be monitored using a Draeger and or combustible gas meter. Meter and or Draeger readings will be taken and documented before and during work.

6.2 Heat and Cold Stress: These will be monitored by measuring the ambient temperature with a thermometer and will be recorded during work at regular times.

7.0 PERSONNEL PROTECTIVE EQUIPMENT:

7.1 Laborers and supervisors -- Level D protective equipment:

Hard Hat
Coveralls or poly-tyvec
Half-face cartridge respirator if needed
Organic vapor cartridges if needed
safety glasses

PVC gloves and steel toe boots
Goggles

7.2 Consultant or Project Manager -- Level D protective equipment:
Hard Hat
Coveralls
Half-face cartridge respirator if needed
Organic vapor cartridges if needed
Safety glasses
PVC gloves and steel toe boots

8.0 WORK ZONES AND SECURITY MEASURES:

Three work zones will be established before proceeding with work:

8.1 Support or Security Zone: Will be the property border, barricades and or other device will be used to to restrict public access.

8.2 Contamination Reduction Zone: An area designated at the site will be used to don and doff protective equipment.

8.3 Exclusion Zone: Will be the area where work is being conducted. Only workers or authorized persons wearing the proper protective equipment will be allowed into the exclusion zone.

9.0 DECONTAMINATION PROCEDURES:

Decontamination Procedures will be conducted as follows:

9.1 Personnel will remove protective equipment in the contamination reduction zone. Expendable items such as tyvecs, gloves and respirator cartridges will be placed in drums for disposal with other contaminated materials.

9.2 Bathrooms are located across the street and there will be waterless hand cleaner at the site to wash hands when necessary.

10.0 GENERAL SAFE WORK PRACTICES

No horse play.
No smoking.
No eating.

Operate all equipment properly.
Plan ahead.
Follow instructions and adhere to safety guidelines.

11.0 STANDARD OPERATING PROCEDURES:

11.1 All personnel will don and doff protective equipment while in the contamination reduction zone.

11.2 Remove protective clothing in the following order: Tyvec suit, boots, respirator, gloves.

11.3 Hard hat, safety glasses and steel toe boots are to be worn on site at all times.

12.0 CONTINGENCY PLAN:

12.1 All hospital, fire and emergency telephone numbers will be posted near the work area with directions to the hospital.

12.2 Personnel currently trained in first aid, CPR and CFR 1910.120:

Project Manager; First Aid, CPR, CFR 1910.120
Work crews; CFR 1910.120
Consultant; Unknown

12.3 Personnel injured in the exclusion zone will be moved to the contamination reduction zone(if possible) where personnel protective equipment will be removed in order to administer first aid.

13.0 TRAINING REQUIREMENTS:

13.1 All personnel working in areas considered potentialy hazardous will have had, as a minimum, forty hours' training in the hazards and protections associated with handling hazardous waste (per CFR 1910.120).

13.2 Tailgate safety meetings will be conducted at the beginning of each shift, and will highlight the hazards that may be encountered during the shift.

14.0 MEDICAL SURVEILLANCE:

14.1 All personnel working at the site will have had a thorough physical examination within one year of performing work.

14.2 Minimal exposure risk during the project does not merit base-line physicals before and after the project.

15.0 RECORD KEEPING:

All documentation pertaining to this project, e.g., exposure monitoring, temperature, safety meetings, etc., will be recorded and maintained at the office of the general contractor:

Bay Area Tank & Marine, Inc.
2681 Overlook Drive
Walnut Creek, Ca. 94596

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40
Aeration of Contaminated Soil and
Removal of Underground Storage Tanks

NOTIFICATION FORM

(X) Removal or Replacement of Tanks
(X) Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS 460 Grand Avenue
CITY, STATE, ZIP Oakland Ca 94612
OWNER NAME Robert Falaschi
SPECIFIC LOCATION OF PROJECT Bellevue & Grand Ave, Oakland

TANK REMOVAL	CONTAMINATED SOIL EXCAVATION
SCHEDULED STARTUP DATE [illegible] 90	SCHEDULED STARTUP DATE 11/10/90
VAPORS REMOVED BY:	STOCKPILES WILL BE COVERED? YES ✓ NO ____
[✓] WATER WASH	ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):
[ ] VAPOR FREEING (CO^2)	
[ ] VENTILATION	(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME [illegible] CONTACT Forrest Garrett
ADDRESS [illegible] PHONE (415) 322-4270
CITY, STATE, ZIP [illegible] Ca 94303

CONSULTANT INFORMATION
(IF APPLICABLE)

NAME ____ CONTACT ____
ADDRESS ____ PHONE ( ) ____
CITY, STATE, ZIP ____

FOR OFFICE USE ONLY

DATE RECEIVED ____ BY ____ (INIT.)
CC: INSPECTOR NO. ____ DATE ____ BY ____ (INIT.)
TELEPHONE UPDATE: CALLER ____ CHANGE MADE ____
BAAQMD N # ____

APPENDIX C

FIELD RECORDS
Gilbert Wistar, Alameda County
Gary Collins, City of Oakland

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

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

II,III

Site ID # ____ Site Name Abandoned gas station Today's Date 11/29/90 11/30/90

Site Address 460 Grand Ave.

City Oakland Zip 94610 Phone —

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

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

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

II.A BUSINESS PLANS (Title 19)

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

II.B ACUTELY HAZ. MATLS

___	10. Registration Form Filed	25533(a)
___	11. Form Complete	25533(b)
___	12. RMPP Contents	25534(c)
___	13. Implement Sch. Req'd? (Y/N)	___
___	14. OffSite Conseq. Assess.	25524(c)
___	15. Probable Risk Assessment	25534(d)
___	16. Persons Responsible	25534(g)
___	17. Certification	25534(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 gndwater
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 tstng
8) Annual Tank Testing
Daily Inventory
9) Other ____

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

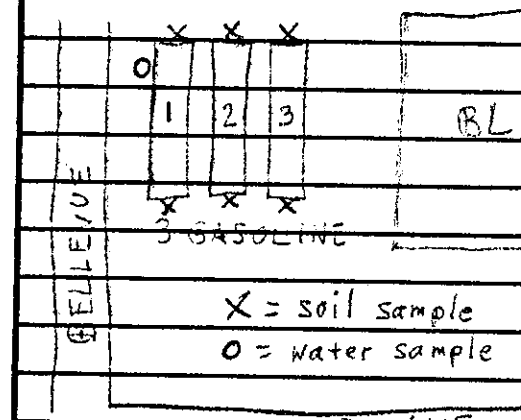
New Tanks

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

Rev 6/88

Comments:

Removal of 4 underground tanks from former service station. Tanks are all steel and consist of 3 10,000-gallon tanks and one 250-gallon waste oil tank, X [4] WASTE OIL



water standing in gas tank pit at time of excavation. (7-8')
Tank #1 - many areas of deep cutting, but no holes present
Tank #2 also has deep cutting and at least 2 small holes.
Tank #3 appears to be in better condition than the other gas tanks.
Tank #4 (waste oil) has numerous small corrosion holes.
Waste oil tank pit looks + smells contaminated. (no water)
Some discolored odorous soil from main pit (AGED GASOLINE)
Soil samples to be collected later beneath product pipeline (1 sample per 20 lineal feet).

II, III

Contact: Dean H. Iwasa

Title: Civil Engineer

Inspector:

Signature: Dean H. Iwasa

Signature: Gilbert M. Wistar

CITY OF OAKLAND
REPORT OF FIRE INSPECTION

ENGINE CO. (

ADDRESS 760 GRAND AVE

NAME Bay Area Tank & Marine

GENERAL INSPECTION ☐ PERMIT ☐ OTHER ☐ HAZARD NOTED ☐ HAZARD ABATED ☐

NOTICE LEFT ☐ LETTER ☐ | 1st NOTICE | 2nd NOTICE | FINAL

DATE	VIOLATION	O.F.C.	CONTACTED
11/30/90	WITNESSED REMOVAL OF WASTE OIL TANK		
	LEL 1%, O2 6%, GASOLINE TANK		
	O2 1% LEL 12%		

A REINSPECTION WILL BE MADE WITHIN _____ DAYS.

FIRE PREVENTION BUREAU — PHONE 273-3851

INSPECTOR Gary Collins

338-6 (Rev. 5-77)

CITY OF OAKLAND
REPORT OF FIRE INSPECTION

ADDRESS [illegible] GRAND AV [illegible]

ENGINE CO.

NAME [illegible]

GENERAL INSPECTION [ ]

PERMIT [ ]
OTHER [ ]

HAZARD NOTED [ ]

HAZARD ABATED [ ]

NOTICE LEFT [ ]
LETTER [ ]

1st NOTICE

2nd NOTICE

FINAL

DATE	VIOLATION	O.F.C.	CONTACTED
[illegible]	[illegible]		
	[illegible]		

REINSPECTION WILL BE MADE WITHIN ________ DAYS.

15 (Rev. 5-77)

FIRE PREVENTION BUREAU — PHONE 273-3851

INSPECTOR [illegible]

APPENDIX D

UNIFORM HAZARDOUS WASTE MANIFESTS

Transportation of Waste Liquids

State of California—Health and Wellare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
PALASCRI BROS.
1940 Webaster St. Oakland, CA. 94612
4. Generator's Phone ( ) [illegible]

A. State Manifest Document Number: 89804855
B. State Generator's ID:

5. Transporter 1 Company Name: Refineries Service
6. US EPA ID Number: [illegible]
C. State Transporter's ID: 102270
D. Transporter's Phone: 209 892-6742

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Refineries Service
13331 N. HWY. 33
Patterson, CA. 95363
10. US EPA ID Number: [illegible]
G. State Facility's ID:
H. Facility's Phone: 209 892-6742

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 No.
a. NON RCRA HAZARDOUS WASTE LIQUID	001	CT	00111	G	State 134 EPA/Other EXEMPT
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
PETROLEUM HYDROCARBON APPROX% 22
WATER APPROX% 252
SLUDGE APPROX%

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information
WEAR GLOVES, GOGGLES & PROTECTIVE CLOTHING
IN CASE OF SPILL CALL EMERGENCY RESPONSE
800-874-4444 OR (209) 892-6742

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: [illegible] Davis | Signature: [illegible] | Month Day Year: 11 21 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frank R Vera | Signature: [illegible] | Month Day Year: 11 21 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month Day Year:

FACILITY

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:

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

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

89804855

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible]	Manifest Document No. [illegible]	2. Page 1 of	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALASCHI BR[illegible]
1940 WEBSTER [illegible]

4. Generator's Phone ([illegible])

A. State Manifest Document Number 89802491

B. State Generator's ID

5. Transporter 1 Company Name [illegible] — 6. US EPA ID Number

C. State Transporter's ID [illegible]

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Refineries [illegible]
12331 H. [illegible]
[illegible]

10. US EPA ID Number

G. State Facility's ID [illegible]

H. Facility's Phone [illegible]

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 No.
a. NON RCRA [illegible] LIQUID	001	TT	[illegible]	G	State 134 / EPA/Other [illegible]
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
PETROLEUM HYDROCARBON APPX [illegible] 20
WATER APPX [illegible] 80

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information
[illegible]
[illegible]

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	Signature	Month Day Year
[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
[illegible]	[illegible]	[illegible]

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

GENERATOR / TRANSPORTER / FACILITY

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

89802491

DHS 8022 A (1/88)
EPA 8700—22
[redacted] 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALASCHI BROS.
1940 Webster St. Oakland, CA. 9612

4. Generator's Phone ( )

A. State Manifest Document Number: 89804851

B. State Generator's ID

5. Transporter 1 Company Name: Refineries Services

6. US EPA ID Number

C. State Transporter's ID: 102070

D. Transporter's Phone: 209 892-6782

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Refineries Services
13331 N. HWY. 33
Patterson, CA. 9531

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone: 209 892-6782

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 No.
a. NON RCRA HAZARDOUS WASTE LIQUID	001	717	5000	G	State 134
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above
PETROLEUM HYDROCARBON APPROX% 1%
WATER APPROX% 99%
SLUDGE APPROX%

K. Handling Codes for Wastes Listed Above
a. | b.
c. | d.

15. Special Handling Instructions and Additional Information
WEAR GLOVES, GOGGLES & PROTECTIVE CLOTHING
IN CASE OF SPILL CALL EMERGENCY RESPONSE
800-424-8802 OR (209) 892-6782

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 | Signature | Month Day Year

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Trevor P. | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

19. Discrepancy Indication Space

FACILITY

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

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

89804851

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

APPENDIX E

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE REPORT

4 December 1990

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

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: 12/04/90 CASE #:

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 SAFTY CODE.
SIGNED: _____ DATE: _____

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Joseph A. Adams
PHONE: (415) 421-9696
SIGNATURE: Joseph A. Adams Receiver (A)
REPRESENTING: ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: Falaschi Brothers by Joseph A. Adams, Receiver
ADDRESS: 100 Pine Street, 21st Floor (STREET) San Francisco (CITY) CA (STATE) 94111 (ZIP)

RESPONSIBLE PARTY
NAME: To be determined ☐ UNKNOWN (B)
CONTACT PERSON: Joseph A. Adams
PHONE: (415) 421-9696
ADDRESS: 100 Pine Street, 21st Floor (STREET) San Francisco (CITY) CA (STATE) 94111 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): N/A
OPERATOR: N/A
PHONE: ( )
ADDRESS: 460 Grand Avenue (STREET) Oakland (CITY) Alameda (COUNTY) 94612 (ZIP)
CROSS STREET: Bellevue Avenue

IMPLEMENTING AGENCIES
LOCAL AGENCY AGENCY NAME: Alameda County Department of Environmental Health
CONTACT PERSON: Gilbert M. Wistar
PHONE: (415) 430-4530
REGIONAL BOARD:
PHONE: ( )

SUBSTANCES INVOLVED
(1) NAME: Waste Oil from 500-gallon tank
QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
(2)
_____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 11/30/90
HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER _____
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 11/30/90
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☒ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK
☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE
☒ OTHER Removed tank (C)

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☒ CORROSION ☒ UNKNOWN ☐ OTHER _____

CASE TYPE
CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
☐ NO ACTION TAKEN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION
☒ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS
☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ CLEANUP UNDERWAY

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ VACUUM EXTRACT (VE) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS)
☐ OTHER (OT) _____

COMMENTS
A Signature is for reporting purposes only
B Legal actions have been initiated to determine the "responsible party"
C Station has not been used since 1978. Contents of tank consisted of waste oil and water.

HSC 05 (11/89)

APPENDIX F

UNIFORM HAZARDOUS WASTE MANIFESTS

Transportation of Stabilized Storage Tanks

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000630544 — Manifest Document No. T5904
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALASCHI BROS
1940 WEBSTER
OAKLAND, CA.
4. Generator's Phone 415) 531-1453

A. State Manifest Document Number 89891087
B. State Generator's ID

5. Transporter 1 Company Name: JACK PARKER TRUCKING
6. US EPA ID Number: CAD000227709
C. State Transporter's ID 106472 / 1-06-92
D. Transporter's Phone 415/237-2212

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, Ca. 94801
10. US EPA ID Number: CAD009466392
G. State Facility's ID
H. Facility's Phone (415) 235-1393

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 No.
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid	002	TP	1,000	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. 2 Empty Storage Tank (s) #5129, 5130, ___, ___. Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. 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.S.T.'s

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.

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Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	1	16	90

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
David Phillips	[signature]	1	16	90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

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

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CE[illegible] 1-80[illegible]802; IN CA[illegible]NIA 1-80[illegible]550

89891087

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Falasch, Brothers
1940 Webster [illegible], Ca. 94612

A. State Manifest Document Number: 89891108

B. State Generator's ID

4. Generator's Phone (415) 531-1153

5. Transporter 1 Company Name: Jack Parker

6. US EPA ID Number

C. State Transporter's ID: 106492

D. Transporter's Phone: (415) 232-2212

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, Ca. 94801

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone: (415) 235-1393

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 No.
a. Waste Empty Storage Tank NOS-RCRA Hazardous [illegible]	001	[illegible]	[illegible]	[illegible]	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. 2 Empty Storage Tank (s) #5127, 5128
_____, _____. Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. 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.S.T.'s

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.

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Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
David Hall	[signature]	1	13	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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

GENERATOR

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

89891108

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

APPENDIX G

CERTIFICATES OF TANK DESTRUCTION

№ 5127 – 73484

Bay Area Tank & Marine

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 5127

Location: Richmond Date: 12-04-90 Time: 10:00 a.m.

Test Method: Visual Gastech/1314 SMPN

Last Product: Leaded Gas

This is to certify that I have personally determined that the tank(s) in the following list are in accordance with the American Petroleum Institute and have found the condition of each to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Tank(s)	Condition
1- 10,000 Gal. Tank	Safe For Fire
	Oxy 20.9%
	~~LEL less than 0.1%~~

Remarks:

In the event of any physical or atmospheric changes affecting the gas-free condition of the above tanks, or if in any doubt immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

Standard Safety Designation:

Safe for Men: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

Safe for Fire: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Representative [redacted] Title

Inspector Jim Cox

№ 5128→73484

Bay Area Tank Marine

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 5128 Location: Richmond Date: 12-03-90 Time: 8:00 a.m.

Test Method: Visual Gastech/1314 SMPN Last Product: Unleaded Gas

This is to certify that I have personally determined that the tank(s) in the following list are in accordance with the American Petroleum Institute and have found the condition of each to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Tank(s)	Condition
1- 10,000 Gal. Tank	Safe For Fire
	Oxy 20.9%
	LEL-Less than 0.1%

Remarks:

In the event of any physical or atmospheric changes affecting the gas-free condition of the above tanks, or if in any doubt immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

Standard Safety Designation:

Safe for Men: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

Safe for Fire: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

K. Hughes
Representative

Title

Inspector

№ 5129 – 73484
Bay Area Tank & Marine

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 5129 Location: Richmond Date: 12-04-90 Time: 8:00 a.m.

Test Method: Visual Gastech/1314 SMDN Last Product: Unleaded Gas

This is to certify that I have personally determined that the tank(s) in the following list are in accordance with the American Petroleum Institute and have found the condition of each to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Tank(s)	Condition
1- 10,000 Gal. Tank	Safe For Fire Oxy 20.9% ~~LEL less than 0.1%~~

Remarks:

In the event of any physical or atmospheric changes affecting the gas-free condition of the above tanks, or if in any doubt immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

Standard Safety Designation:

Safe for Men: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

Safe for Fire: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

K. Hufto
Representative

Title

Inspector

No. 5130-73484
Bay Area Tank Cleaning

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 5130 Location: Richmond Date: 12-04-90 Time: 8:00 a.m.

Test Method: Visual Gastech/1314 SMPN Last Product: Waste Oil

This is to certify that I have personally determined that the tank(s) in the following list are in accordance with the American Petroleum Institute and have found the condition of each to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Tank(s)	Condition
1- 500 Gal. Tank	Safe For Fire
	Oxy 20.9%
	LEL-Less than 0.1%

Remarks:

In the event of any physical or atmospheric changes affecting the gas-free condition of the above tanks, or if in any doubt immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

Standard Safety Designation:

Safe for Men: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

Safe for Fire: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

K. Erickson
Representative

Title

Wm. Cox
Inspector

APPENDIX H

CHAIN-OF CUSTODY RECORDS

NEW · UPDATED REQUEST

TREADWELL & ASSOCIATES, INC.
353 Sacramento Street, Suite 560
San Francisco, California 94111
(415) 955-9040

CHAIN OF CUSTODY RECORD

Project #: 1132A Project Name: Grand Ave & Bellevue Date: 11-30-90 Page: 1 of 1

Date	Sample Number	Total lead	Metals AA (Cd, Cr, Pb, Zn, Ni)	TPH (modified) as gasoline	TPH including as diesel and motor oil	Oil & Grease	TEH including gasoline	BTX&E 8020	Chlorinated Hydrocarbons 8010	Number of Containers	Sample Information	
11/30/90	T1-1			(✓)	~~✓~~	~~✓~~	~~✓~~	(✓)	~~✓~~	1	1	Remark #5
	T1-2	✓		(✓)	~~✓~~		~~✓~~	(✓)		1	2	
	T1-3						~~✓~~	~~✓~~		1	Hold 3	
	T2-1			(✓)	~~✓~~		~~✓~~	(✓)		1	4	
	T2-2	✓		(✓)	~~✓~~		~~✓~~	(✓)		1	5	
	T3-1			(✓)	~~✓~~		~~✓~~	(✓)		1	6	
	T3-2	✓		(✓)	~~✓~~		~~✓~~	(✓)		1	7	
	T4-1		(✓)	(✓)	(✓)	(✓)		(✓)	(✓)	1	8	
	W1			(✓)	~~✓~~		✓	(✓)		3	9	

Call & Find out info

Total Number of Containers: 11

Relinquished By (Sampler):
Signature: Dean H. Iwasa
Printed Name: Dean H. Iwasa
Company:
Date: Time:

Received By:
Signature:
Printed Name:
Company:
Date: Time:

Relinquished By:
Signature:
Printed Name:
Company:
Date: Time:
Method of Shipment:

Received By (Lab):
Signature: Nancy J. Wilson
Printed Name: Nancy J. Wilson
Lab: C.T. Lab
Date: 11/30/90 Time: 5:35

Lab Comments:
Reg. TAT

REMARKS:

FAX 486-0532

1) Lab analysis request was modified to obtain lower detection limit for "aged gasoline" in soil samples.
2) Water Sample W1 should be analyzed for petroleum hydrocarbons using ~~[illegible]~~ TPH and TEH test methods
3) Please retain all soil samples after testing

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CHAIN OF CUSTODY RECORD

Project #: 1132A Project Name: Grand & Bellevue Date: 12/4/90 Page: 1 of 1

Date	Sample Number	Analysis: BTXE	Analysis: TPH including Gasoline	Number of Containers	Sample Information
12/4/90	P-1	✓	✓	1	Remark #1
	P-2	✓	✓	1	
	P-3	✓	✓	1	
	P4	✓	✓	1	
				4	
	Total Number of Containers				

Relinquished By (Sampler):
Signature: Dean H. Iwasa
Printed Name: Dean H. Iwasa
Company:
Date: 12-4-90 Time: 16:30

Received By:
Signature:
Printed Name:
Company:
Date: Time:

Relinquished By:
Signature:
Printed Name:
Company:
Date: Time:

Method of Shipment:

Received By (Lab):
Signature: JOHN GOYETTE
Printed Name: CURTIS & TOMPKINS
Lab:
Date: 12-4-90 Time: 16:30

Lab Comments:
Normal TAT

REMARKS:
1) Retain Sample after testing

102454

APPENDIX I

ANALYTICAL LABORATORY REPORTS

Curtis & Tompkins, Ltd., Analytical Laboratories. Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 11/30/90
DATE REPORTED: 12/17/90

LAB NUMBER: 102416

CLIENT: TREADWELL & ASSOCIATES

REPORT ON: 7 SOILS SAMPLES & 1 WATER SAMPLE

PROJECT #: 1132A
LOCATION: GRAND AVE @ BELLEVUE

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd

LAB NUMBER: 102416
CLIENT: TREADWELL & ASSOCIATES
PROJECT # : 1132A
LOCATION: GRAND AVE @ BELLEVUE

DATE RECEIVED: 11/30/90
DATE ANALYZED: 12/04/90
DATE REPORTED: 12/17/90

ANALYSIS: HYDROCARBON OIL AND GREASE
METHOD: SMWW 17:5520EF

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102416-8	T4-1	24,000	mg/Kg	50

ND = Not detected at or above reporting limit

QA/QC SUMMARY

RPD, %	6
RECOVERY, %	90

LABORATORY NUMBER: 102416-8
CLIENT: TREADWELL & ASSOCIATES
PROJECT ID: 1132A
LOCATION: GRAND AVE @ BELLEVUE

DATE RECEIVED: 11/30/90
DATE EXTRACTED: 12/07/90
DATE ANALYZED: 12/13/90
DATE REPORTED: 12/17/90

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
102416-8	T4-1	ND	7,100	1,000

ND = Not Detected at or above reporting limit.

*Reporting limit applies to all analytes.

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	83

LABORATORY NUMBER: 102416
CLIENT: TREADWELL & ASSOCIATES
PROJECT ID: 1132A

DATE RECEIVED: 11/30/90
DATE ANALYZED: 12/03/90
DATE REPORTED: 12/17/90

ANALYSIS: LEAD
ANALYSIS METHOD: EPA7420

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102416-2	T1-2	3.8	mg/Kg	2.5
102416-5	T2-2	ND	mg/Kg	2.5
102416-7	T3-2	3.4	mg/Kg	2.5
102416-8	T4-1	40	mg/Kg	2.5

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 102416-8
CLIENT: TREADWELL & ASSOCIATES
PROJECT ID: 1132A
SAMPLE ID: T4-1

DATE RECEIVED: 11/30/90
DATE ANALYZED: 12/04/90
DATE REPORTED: 12/17/90

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CADMIUM	0.8	mg/Kg	0.5	EPA 6010
CHROMIUM	12	mg/Kg	0.5	EPA 6010
NICKEL	22	mg/Kg	0.5	EPA 6010
ZINC	41	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	RECOVERY, %
CADMIUM	3	91
CHROMIUM	<1	98
NICKEL	6	99
ZINC	1	95

Curtis & Tompkins Ltd.

LABORATORY NUMBER: 102416-8
CLIENT: TREADWELL & ASSOCIATES
PROJECT ID: 1132A
SAMPLE ID: T4-1

DATE RECEIVED: 11/30/90
DATE ANALYZED: 12/06/90
DATE REPORTED: 12/17/90

EPA 8010: Volatile Halocarbons in Soil & Wastes
Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
chloromethane	ND	400
bromomethane	ND	400
vinyl chloride	ND	400
chloroethane	ND	400
methylene chloride	ND	200
trichlorofluoromethane	ND	200
1,1-dichloroethene	ND	200
1,1-dichloroethane	ND	200
1,2-dichloroethene (total) DCE	ND	200
chloroform	ND	200
freon 113	ND	200
1,2-dichloroethane DCA	ND	200
1,1,1-trichloroethane	250	200
carbon tetrachloride	ND	200
bromodichloromethane	ND	200
1,2-dichloropropane DCP	ND	200
cis-1,3-dichloropropene	ND	200
trichloroethylene	ND	200
1,1,2-trichloroethane	ND	200
trans-1,3-dichloropropene	ND	200
dibromochloromethane	ND	200
2-chloroethylvinyl ether	ND	200
bromoform	ND	400
tetrachloroethylene	ND	200
1,1,2,2-tetrachloroethane	1,000	200
chlorobenzene	ND	200
1,3-dichlorobenzene	ND	200
1,2-dichlorobenzene DCB	ND	200
1,4-dichlorobenzene	ND	200

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Duplicate: Relative % Difference	6 %
Spike: Average % Recovery	93 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 102416
CLIENT: TREADWELL & ASSOCIATES
PROJECT ID: 1132A
JOB LOCATION: GRAND AVE @ BELLEVUE

DATE RECEIVED: 11/30/90
DATE ANALYZED: 12/07/90
DATE REPORTED: 12/17/90

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
102416-1	T1-1	ND(1.0)	ND(5.0)	100	ND(5.0)	ND(5.0)
102416-2	T1-2	ND(1.0)	ND(5.0)	97	ND(5.0)	ND(5.0)
102416-4	T2-1	ND(1.0)	ND(5.0)	140	ND(5.0)	ND(5.0)
102416-5	T2-2	ND(1.0)	19	65	ND(5.0)	ND(5.0)
102416-6	T3-1	ND(1.0)	ND(5.0)	220	ND(5.0)	ND(5.0)
102416-7	T3-2	ND(1.0)	ND(5.0)	63	ND(5.0)	ND(5.0)
102416-8	T4-1	400	1,200	10,000	5,200	35,000

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	90

LABORATORY NUMBER: 102416
CLIENT: TREADWELL & ASSOCIATES
PROJECT ID: 1132A
JOB LOCATION: GRAND AVE & BELLEVUE

DATE RECEIVED: 11/30/90
DATE ANALYZED: 12/05/90
DATE REPORTED: 12/17/90

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
102416-9	W-1	2,300	53	160	36	160

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	86

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 102416-9
CLIENT: TREADWELL & ASSOCIATES
JOB #: 1132A
LOCATION: GRAND AVE @ BELLEVUE

DATE RECEIVED: 11/30/90
DATE EXTRACTED: 12/05/90
DATE ANALYZED: 12/13/90
DATE REPORTED: 12/17/90

Extractable Petroleum Hydrocarbons in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT* (ug/L)
102416-9	W1	ND	ND	50

ND = Not detected at or above reporting limit.

*Reporting limit applies to all analytes.

QA/QC SUMMARY

RPD, %	6
RECOVERY, %	85

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 12/04/90
DATE REPORTED: 12/14/90

LAB NUMBER: 102454

CLIENT: TREADWELL AND ASSOCIATES

REPORT ON: FOUR SOIL SAMPLES

PROJECT #: 1132A
LOCATION: GRAND AVENUE AT BELLEVUE

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

LABORATORY NUMBER: 102454
CLIENT: TREADWELL AND ASSOCIATES
PROJECT ID: 1132A
JOB LOCATION: GRAND AVE. AT BELLEVUE

DATE RECEIVED: 12/04/90
DATE ANALYZED: 12/06/90
DATE REPORTED: 12/14/90

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
102454-1	P-1	1,700	ND (400)	8,700	47,000	260,000
102454-2	P-2	90	ND (400)	1,700	890	4,700
102454-3	P-3	ND (1.0)	6.6	180	5.3	33
102454-4	P-4	ND (1.0)	ND (5.0)	36	ND (5.0)	5.5

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	87