

REPORT OF FINDINGS
UNDERGROUND STORAGE TANK REMOVALS

EANDI METAL WORKS
976 23RD Avenue
Oakland, California
EPA #CAC000690312

*Rec'd 7/13/92
B Chan*

PREPARED FOR:
Mr. Jeff Eandi
Eandi Metal Works
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SLIP 34

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JUNE 1992

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Underground Storage Tank Removals
Eandi Metal Works
976 23RD Ave.
Oakland, California 94606
EPA #CAC000690312

June 9, 1992

Mr. Jeff Eandi
Eandi Metal Works
976 23RD Ave.
Oakland, CA 94606

Dear Mr. Eandi

On May 11, 1992, **H&H TOXIC REMOVAL** removed three underground storage tanks from the subject Eandi properties in Oakland, California. The scope of work included: submitting the tank closure permits as required by the Alameda County Health Agency and the State of California; removing the tanks and associated product line; collecting appropriate soil samples and providing for their analyses; and properly disposing of the tanks and product line. **CONSOLIDATED TECHNOLOGIES (CT)** was responsible for the permitting, job coordination, sampling, and report preparation.

This Report of Findings summarizes the history of the tanks, site background, the results of the inspection of the removed tanks, subsurface sampling methods, analytical results of the soil samples, and our findings and recommendations.

Please feel free to contact us at (408) 973-9532 if you have any questions. **CONSOLIDATED TECHNOLOGIES** is pleased to be of service to you on this project.

Respectfully,

Brian Reddig
Brian Reddig
Geologist

EXECUTIVE SUMMARY

On May 11, 1992, H&H Toxic Removal personnel removed three underground storage tanks from the subject Eandi properties: one 1,000-gallon gasoline tank (2440 E. 11th St.); one 550-gallon gasoline tank (976 23rd Ave.); and one 1,000-gallon diesel tank (123 23rd Ave.). Each tank was steel and single-walled. Visual inspection of each tank indicated the presence of a minor to moderate amount of rust scaling and pitting, although no through going holes were noted.

A total of nine soil samples were collected and analyzed. Four samples were associated with the 1,000-gallon gasoline tank (A-1, A-2, A-PL, and ASP-1,2); two samples were associated with the 550-gallon gasoline tank (B-1 and BSP-1,2); and three samples were associated with the 1,000-gallon diesel tank (C-1, C-2, and CSP-1,2).

Analytical results indicate that TPHg was present in samples associated with the 1,000-gallon gasoline tank at concentrations ranging from 620 ppm to non-detect. Benzene was reported at concentrations ranging from 11,000 ppb to 23 ppb. Toluene was present at concentrations ranging from 64,000 ppb to 6.0 ppb. Ethylbenzene was detected at concentrations ranging from 19,000 to non-detect. Xylenes were present at concentrations ranging from 110,000 ppb to 60 ppb. Total lead was detected at reported concentrations ranging from 6.0 ppm to non-detect.

Soil samples associated with the 550-gallon gasoline tank did not contain detectable concentrations of TPHg, Benzene, Toluene, or Ethylbenzene. One of the two samples contained Xylenes at a reported concentration of 14 ppb. Lead was detected in both samples at concentrations of 14.0 ppm and 4.8 ppm.

Although neither of the two pit floor samples collected from the 1,000-gallon diesel tank contained detectable concentrations of TPHd, the stockpile sample contained a reported concentration of 620 ppm. Benzene, Ethylbenzene, and Xylenes were not detected in any of the three samples. Both pit floor samples contained Toluene, at concentrations of 15 ppb and 16 ppb.

CT recommends the immediate excavation and treatment/disposal of petroleum hydrocarbon contaminated soils in the vicinity of the removed storage tanks. It is also high likely that the Alameda County Health Agency (ACHA) will require the installation of at least three groundwater monitoring wells in order to determine the depth to groundwater, groundwater gradient, and to evaluate the potential for possible groundwater contamination.

RISK

Analytical results indicate two areas which may pose a threat to the environment based on the following conditions:

1000-gallon Gasoline Tank

- The depth to groundwater has not been determined
- Analytical results of soil samples A-1, A-2, A-PL, and ASP-1,2 indicated the presence of the following parameters:

<u>TPHg:</u>	A-1	620 ppm
	A-2	1100 ppm
	ASP-1,2	10 ppm

A-PL ?

<u>Benzene</u>	A-1	4400 ppb
	A-2	11000 ppb
	A-PL	23 ppb
	ASP-1,2	33 ppb

<u>Toluene:</u>	A-1	25000 ppb
	A-2	64000 ppb
	A-PL	6.0 ppb
	ASP-1,2	320 ppb

<u>Ethylbenzene:</u>	A-1	9300 ppb
	A-2	19000 ppb
	ASP-1,2	51 ppb

<u>Xylenes:</u>	A-1	55000 ppb
	A-2	110000 ppb
	A-PL	60 ppb
	ASP-1,2	1400 ppb

1,000-gallon Diesel Tank

- Analytical results of soil samples C-1, C-2, and CSP-1,2 indicate the presence of the following parameters:

<u>TPHd:</u>	CSP-1,2	130 ppm
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<u>Toluene:</u>	C-1	15 ppb
	C-2	16 ppb

TANK HISTORY AND SITE BACKGROUND

The subject properties are used for various activities related to the manufacturing of metal products. The general locations of the properties are shown in Figure 1, Site Location Map. In general, adjacent property usage in the vicinity of the sites is mixed light industrial and residential. The former location of each of the three tanks with respect to streets and adjacent buildings is shown in figure 2A (1000-gallon gasoline tank), figure 2B (550-gallon gasoline tank), and figure 2C (1000-gallon diesel tank).

The 1000-gallon gasoline tank was located beneath the sidewalk along the south side of 2440 E. 11th Street (Fig 2A). This site is bound to the north by a private residence, to the west by E. 11th Street, to the east by 10th Street, and to the south by 25th Avenue. It is the understanding of CT that the tank was installed approximately 40 years ago. The steel, single-walled, underground storage tank had a capacity of 1,000 gallons and was last used to store leaded gasoline.

The 550-gallon gasoline tank was located beneath the sidewalk along the west face of 976 23rd Avenue (Fig 2B). This site is bound to the north by 11th Street, to the west by 23rd Avenue, to the east by 25th Avenue, and to the south by 10th Street. It was unknown to the client as to when this tank was installed. The steel, single-walled, underground storage tank had a capacity of approximately 550 gallons and was last used to store leaded gasoline.

The 1000-gallon diesel tank was located beneath the gravel lot along the eastern margin of 123 23rd Avenue (Fig 2C). This site predominantly is used as a storage facility. The site is bound to the west and south by a Highway 880N on-ramp and to the east by 23rd Avenue. It is believed that this tank was installed approximately 12 years ago and was in-use just prior to its removal. The steel, single-walled, underground storage tank had a capacity of 1,000 gallons and was last used to store diesel fuel.

UNDERGROUND STORAGE TANK REMOVALS

On May 11, 1992, the top and walls of each of the underground storage tanks were exposed in preparation for the tank removals. Dry ice was inserted into each of the tanks prior to their removals in order to devolatilize any residual product present in the tanks. Hazardous Materials Inspector Barney Chan of the ACHA was on-site to ensure that the tank was properly prepared for removal and transportation. After the tanks were allowed to devolatilize for a sufficient amount of time, the probe of a GasTech Model 1314 explosimeter was placed into each tank to measure the lower explosive limit (LEL) and oxygen level (OL) within the tanks in order to ensure that they were ready for safe removal and transportation. According to safety guidelines, the LEL and OL must be below 10% in order for the tank to be safely removed and transported. After obtaining readings below these levels, the tanks were extracted from the pits. Each tank was removed by attaching a heavy-duty steel chain to the pick-points of the tank and attaching this assembly to the bucket of a back-hoe, which then lifted the tanks out of the pits.

After each tank was extracted from the pit, it was placed in a staging area for visual inspection. Upon completion of the inspection, each tank was loaded onto an Erickson, Inc. transport truck and delivered to their disposal facility located at 255 Parr Blvd., Richmond, California (EPA #CAD009466392). A copy of the Hazardous Waste Manifests and Certificate of Disposal for each tank is included in Appendix B.

1,000-Gallon Gasoline Tank

Prior to the removal of the 1,000-gallon gasoline tank, a 6-inch thick concrete pad was removed from directly above the tank. The top of the tank was encountered at approximately 2-1/2 feet below surface grade (bsg). The final dimensions of the tank pit were approximately 12 feet by 7 feet, with the base of the tank resting at approximately seven feet bsg. The removed tank was 12 feet long and had a diameter of four feet.

The material encountered in the tank pit during the tank removal was comprised of grayish-brown, medium-grained sand, which was apparently used as back-fill during the initial tank installation. Native soils encountered along the walls and floor of the tank pit were comprised of medium-brown silty clays. Gray staining was noted in the wall soils beneath the product line. Groundwater was not encountered in the tank pit.

Visual inspection of the tank showed moderate signs of rust scaling and pitting; however no evidence of puncture or cracking was noted. The product line appeared to be slightly rusted and corroded, but no through-going holes were noted.

550-Gallon Gasoline Tank

Prior to removal of the 550-gallon gasoline tank, a 4-inch thick concrete pad was removed from directly above the tank location. The top of the tank was encountered at approximately four feet bsg. The final dimensions of the tank pit were approximately 13 feet by 6 feet, with the base of the tank resting at 7-1/2 feet bsg. The removed tank was eight feet long and had a diameter of 3-1/2 feet.

The material encountered in the tank pit during the tank removal was a medium-brown sandy gravel, which was apparently used as back-fill during the initial tank installation. Native soils encountered along the walls and floor of the tank pit were comprised of medium-brown silty clays. Groundwater was not encountered in the tank pit.

During visual inspection of the tank, moderately heavy rust scaling was noted on the exterior of the tank and product lines; however, no through-going holes were noted.

1,000-Gallon Diesel Tank

The top of the 1,000-gallon diesel tank was encountered approximately three feet bsg. The final dimensions of the tank pit were approximately 15 feet by 7 feet, with the base of the tank resting six feet bsg. The removed tank was 12 feet long and had a diameter of four feet.

The material encountered in the tank pit during the tank removal was a medium-brown, medium-grained sand, which apparently was used as back-fill during the initial tank installation. Engineered aggregate was encountered from surface grade to a depth of one foot bsg. The native soils encountered along the walls of the pit were comprised of a dark brown humus from one to two feet bsg and medium-brown silty clay from two to six feet bsg. Groundwater was not encountered in the tank pit.

Visual inspection of the tank indicated that the tank was in relatively good condition. No pits or rust scaling were noted. The exterior of the tank was coated with tar.

SOIL SAMPLING PROTOCOL

On May 11, 1992, under the supervision of Alameda County Health Agency Hazardous Materials Specialist Barney Chan, tank pit soil samples, product line soil samples, and soil stockpile samples were collected. The "grab sample" method was used to collect the tank pit soil samples. With this technique, a clean 2-inch outside diameter, 4-inch long brass sampling tube was hand driven into the excavated soils in the bucket of the back-hoe. Care was taken in recovering the samples at locations away from the walls of the bucket in order to reduce the possibility of contamination from the bucket. The samples were recovered from native soils approximately two feet below the base of the tanks. Upon recovery of the sample, the ends of the brass tube were sealed with aluminum foil, capped with plastic end caps, secured with aluminized tape, and properly labelled. The label information included the date, identification number of the sample, project name, and analyses requested. Under proper Chain of Custody procedures, the samples were placed on ice inside a thermally-insulated cooler for subsequent transport to a State-certified analytical laboratory. A copy of the Chain of Custody form is included in Appendix C.

Soil stockpile samples were collected by hand-driving the brass sampling tubes into the soil stockpiles at random locations. Before the samples were collected, approximately two feet of exposed soil was removed in order to collect samples which had not be volatilized by exposure to sunlight and fresh air. Each sample was then handled as described above. The stockpile samples were subsequently composited into one sample by laboratory personnel.

The product line soil sample was collected by hammer-driving a brass sampling tube into the desired location along the wall of the excavation. This sample was then handled as previously described.

1,000-gallon Gasoline Tank

Two tank pit soil samples (A-1 and A-2), one product line soil sample (A-PL), and two soil stockpile samples (ASP-1 and ASP-2) were collected upon removal of the 1,000-gallon gasoline tank. Tank pit soil samples A-1 and A-2 were collected from the west and east ends of the pit, respectively, at a depth of 9 feet bsg. Product line soil sample A-PL was collected from the north wall at a depth of three feet bsg, directly below the product line. Stockpile samples ASP-1 and ASP-2 were collected from random locations in the excavated soil stockpile for subsequent laboratory composition and analysis. Figure 3A indicates the location from where each sample was collected. A moderate to strong product odor was noted in each of these soil samples.

Each sample was delivered to Chromalab, Inc., of San Ramon California (State-certification #E694) where they were analyzed for: Total Petroleum Hydrocarbons as gasoline (TPHg) (EPA Method 5030/8015); Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (EPA Method 8020); and Total Lead (Pb) (EPA Method 7420).

550-gallon Gasoline Tank

One tank pit soil sample (B-1) and two soil stockpile samples (BSP-1 and BSP-2) were collected upon removal of the 550-gallon gasoline tank. Tank pit soil sample B-1 was collected from the middle of the tank pit at a depth of nine feet bsg. Stockpile samples BSP-1 and BSP-2 were collected from random locations in the excavated soil stockpile for subsequent laboratory composition and analysis. The location from where each sample was collected is shown in figure 3B.

Each sample was delivered to Chromalab, Inc., of San Ramon, California where they were analyzed for: TPHg; BTEX; and Total Lead.

1,000-gallon Diesel Tank

Two tank pit soil samples (C-1 and C-2) and two soil stockpile samples (CSP-1 and CSP-2) were collected upon removal of the 1,000-gallon diesel tank. Tank pit soil samples C-1 and C-2 were collected from the south and north ends of the pit, respectively, at a depth of nine feet bsg. Stockpile samples CSP-1 and CSP-2 were collected from random locations in the excavated soil stockpile for subsequent laboratory composition. Figure 3C indicates the location from where each sample was collected. A moderate product odor was noted in the two stockpile samples.

Each sample was delivered to Chromalab, Inc., where they were analyzed for: Total Petroleum Hydrocarbons as diesel (TPHd) (EPA Method 3550/8015); and BTEX.

ANALYTICAL RESULTS

The following sections give the analytical results for soil samples collected from the tank pit and soil stockpile from each of the removed tanks. The laboratory analytical results are given in table 1 (TPHg & BTEX) and table 2 (TPHd and Lead). The detection limit and analytical method for each analyzed parameter are indicated in the tables. A copy of the laboratory report is included in Appendix C.

Sample Number	TPHg (ppm)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
A-1	620	4400	25000	9300	55000
A-2	1100	11000	64000	19000	110000
A-PL	ND	23	6.0	ND	60
ASP-1,2	108	33	320	51	1400
B-1	ND	ND	ND	ND	14
BSP-1,2	ND	ND	ND	ND	ND
C-1	NA	ND	15	ND	ND
C-2	NA	ND	16	ND	ND
CSP-1,2	NA	ND	ND	ND	ND
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/ 8015	8020	8020	8020	8020
ppm = parts per million (mg/kg equivalent) ppb = parts per billion (ug/kg equivalent)					

Table 1 Analytical Results (TPHg & BTEX)

Sample Number	TPHd (ppm)	L e a d (ppm)
A-1	NA	4.4
A-2	NA	ND
A-PL	NA	6.0
ASP-1,2	NA	3.9
B-1	NA	4.8
BSP-1,2	NA	14.0
C-1	ND	ND
C-2	ND	ND
CSP-1,2	130	ND
DETECTION LIMIT		
ANALYTICAL METHOD		
ppm = parts per million		
ND = Not Detected		

Table 2 (TPHd & Lead)

1,000-gallon Gasoline Tank

Analytical results of soil samples A-1, A-2, A-PL, and ASP-1,2 are given in table 1 (TPHg and BTEX) and table 2 (Lead). Analytical results indicate that concentrations of TPHg were detected in samples A-1, A-2, and ASP-1,2. BTEX constituents Benzene, Toluene, and Xylenes were detected in each of the samples. Ethylbenzene was detected in samples A-1, A-2, and ASP-1,2. Lead was also detected in samples A-1, A-PL, and ASP-1,2.

Sample A-2 contained TPHg at a concentration of 1100 parts per million (ppm). This level exceeds the value of 1000 ppm used by the Department of Health Services (DOHS) to designate hazardous waste. In addition, sample A-1 contained a concentration of TPHg of 620, which is classified as a "designated waste" by the DOHS.

Benzene was detected at concentrations ranging from 11,000 parts per billion (ppb) (sample A-2) to 23 ppb (sample A-PL). Toluene was present at concentrations ranging from 64,000 ppb (sample A-2) to 6.0 ppb (sample A-PL). Ethylbenzene was detected at concentrations ranging from 19,000 ppb (sample A-2) to non-detect (sample A-PL). Xylenes were detected at concentrations ranging from 110,000 ppb (sample A-2) to 60 ppb (sample A-PL).

Lead was present at concentrations ranging from 6.0 ppm (sample A-PL) to non-detect (sample A-2). These concentrations are below its Total Threshold Limit Concentration (TTLC) and also below ten times its Soluble Threshold Limit Concentration (STLC).

550-gallon Gasoline Tank

Analytical results of soil samples B-1 and BSP-1,2 did not indicate the presence of any parameter at or above actionable levels. Soil sample B-1 contained Xylenes at a concentration of 14 ppb. No other petroleum hydrocarbon constituents were found in this sample or in sample BSP-1,2.

Lead was present at concentrations ranging from 14.0 ppm (sample BSP-1,2) to 4.8 ppm (sample B-1). These concentrations are below its TTLC and also below ten times its STLC.

1,000-gallon Diesel Tank

Soil samples C-1 and C-2 contained reported concentrations of Toluene of 15 ppb and 16 ppb, respectively. No other petroleum hydrocarbon constituents were found in the pit floor samples. Stockpile sample CSP-1,2 contained TPHd at a concentration of 130 ppm, which is classified by the DOHS as "designated waste."

FINDINGS AND RECOMMENDATIONS

Findings

Based on our observations and the results of the underground storage tank removal program, the following findings were made:

General Statements

- Native soils encountered during the tank removals consisted of a relatively low permeability medium-brown silty clay.
- Visual inspection of the tanks did not indicate any signs of puncture, rupture, or cracking, although moderate rust scaling was noted.
- Visual inspection of the product line indicated slight signs of rusting and corrosion, but no through-going holes were noted.
- Back-fill materials encountered in the tank excavations were typically sands and sandy gravels.
- Groundwater was not encountered in the tank excavation pits.

1,000-gallon Gasoline Tank

- Analytical results of soil samples A-1, A-2, A-PL, and ASP-1,2 indicated the presence of the following parameters:

<u>TPHg:</u>	A-1	620 ppm
	A-2	1100 ppm
	ASP-1,2	10 ppm

<u>Benzene</u>	A-1	4400 ppb
	A-2	11000 ppb
	A-PL	23 ppb
	ASP-1,2	33 ppb

<u>Toluene:</u>	A-1	25000 ppb
	A-2	64000 ppb
	A-PL	6.0 ppb
	ASP-1,2	320 ppb

<u>Ethylbenzene:</u>	A-1	9300 ppb
	A-2	19000 ppb
	ASP-1,2	51 ppb

Xylenes: A-1 55000 ppb
 A-2 110000 ppb
 A-PL 60 ppb
 ASP-1,2 1400 ppb

Lead: A-1 4.4 ppm
 A-PL 6.0 ppm
 ASP-1,2 3.9 ppm

- Soil containing TPHg in excess of 1,000 ppm is classified as hazardous waste by the DOHS.
- Soil containing TPHg in excess of 100 ppm is classified as "designated waste" by the DOHS and are generally required to be remediated.
- Soils containing Benzene in excess of 1 ppb may be required by the ACHA to be remediated.

1,000-gallon Diesel Tank

- Analytical results of soil samples C-1, C-2, and CSP-1,2 indicate the presence of the following parameters:

TPHd: CPS-1,2 130 ppm

Toluene: C-1 15 ppb
 C-2 16 ppb

- Soils containing TPHg in excess of 100 ppm is classified as "designated waste" by the DOHS and are generally required to be remediated.

550-gallon Gasoline Tank

- Analytical results of soil samples B-1 and BSP-1,2 indicate the presence of the following parameters:

Xylenes: B-1 14 ppb

Lead: B-1 4.8 ppm
 BSP-1,2 14.0 ppm

Recommendations

Because of the presence of relatively low permeability materials in the subsurface, it is possible that these soils may be acting as a retardant to the lateral and vertical migration of the contaminants. In addition, groundwater is expected to be encountered at a relatively shallow level. Therefore, it is our recommendation that the existing 1000-gallon gasoline tank pit be over-excavated and the contaminated soils (newly excavated and currently existing) be remediated and/or disposed of. The purpose of this action is to remove, to the greatest extent practical and feasible, any contaminants which may leach through the soil into the groundwater. Although it is not foreseeable as to the final extent of contamination, it is our estimation that due to the fine-grained sediments present in the subsurface, the migration of contaminants away from the source area may be restricted.

In addition, whenever an unauthorized discharge from an underground storage tank may pose a threat to the quality of the groundwater, a groundwater quality investigation is required by local and/or state regulatory agencies. This would involve the installation of a minimum of three groundwater monitoring wells in the appropriate locations. The purpose of the groundwater investigation is to determine if groundwater has been adversely impacted by petroleum hydrocarbon contamination, determine the depth to groundwater, and to determine the groundwater gradient.

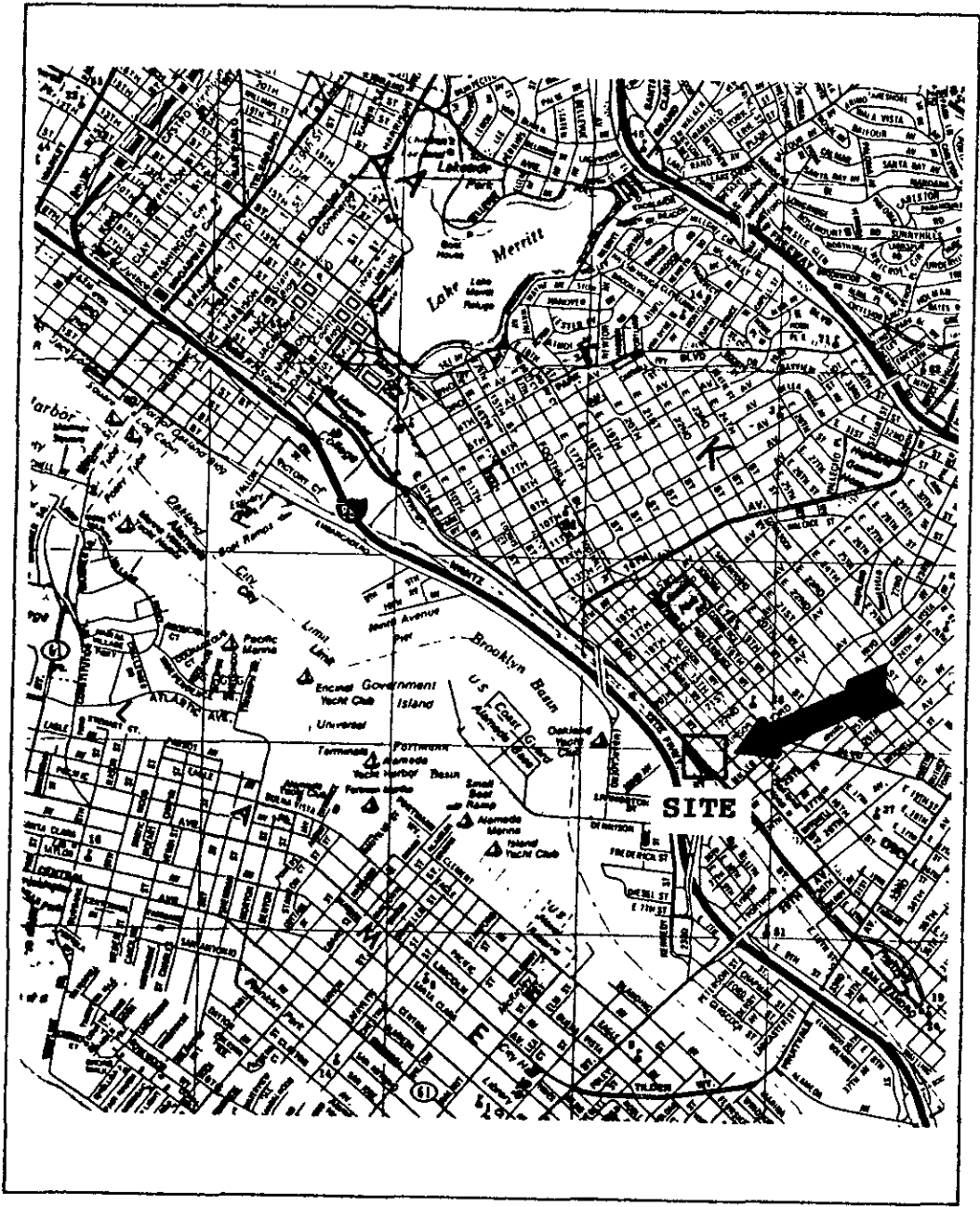
Copies of this report should be sent to:

- Inspector Barney Chan, Alameda County Health Agency,
80 Swan Way, Room 200, Oakland, CA 94621
- Regional Water Quality Control Board, 2101 Webster
Street, Room 500, Oakland, CA 94612

LIMITATIONS

The conclusions and professional guidelines presented herein were developed in accordance with generally accepted practices for addressing fuel leaks from underground storage tanks as outlined in the guidelines from the Alameda County Health Agency and the California Water Quality Control Board. Because the analytical results are based on data collected from the sampling locations only, CT cannot have full knowledge of the underlying conditions at the site. Conditions at the project site may change with time due to the works of man and/or acts of nature. Accordingly, the findings of this report may be subject to change in light of new information.

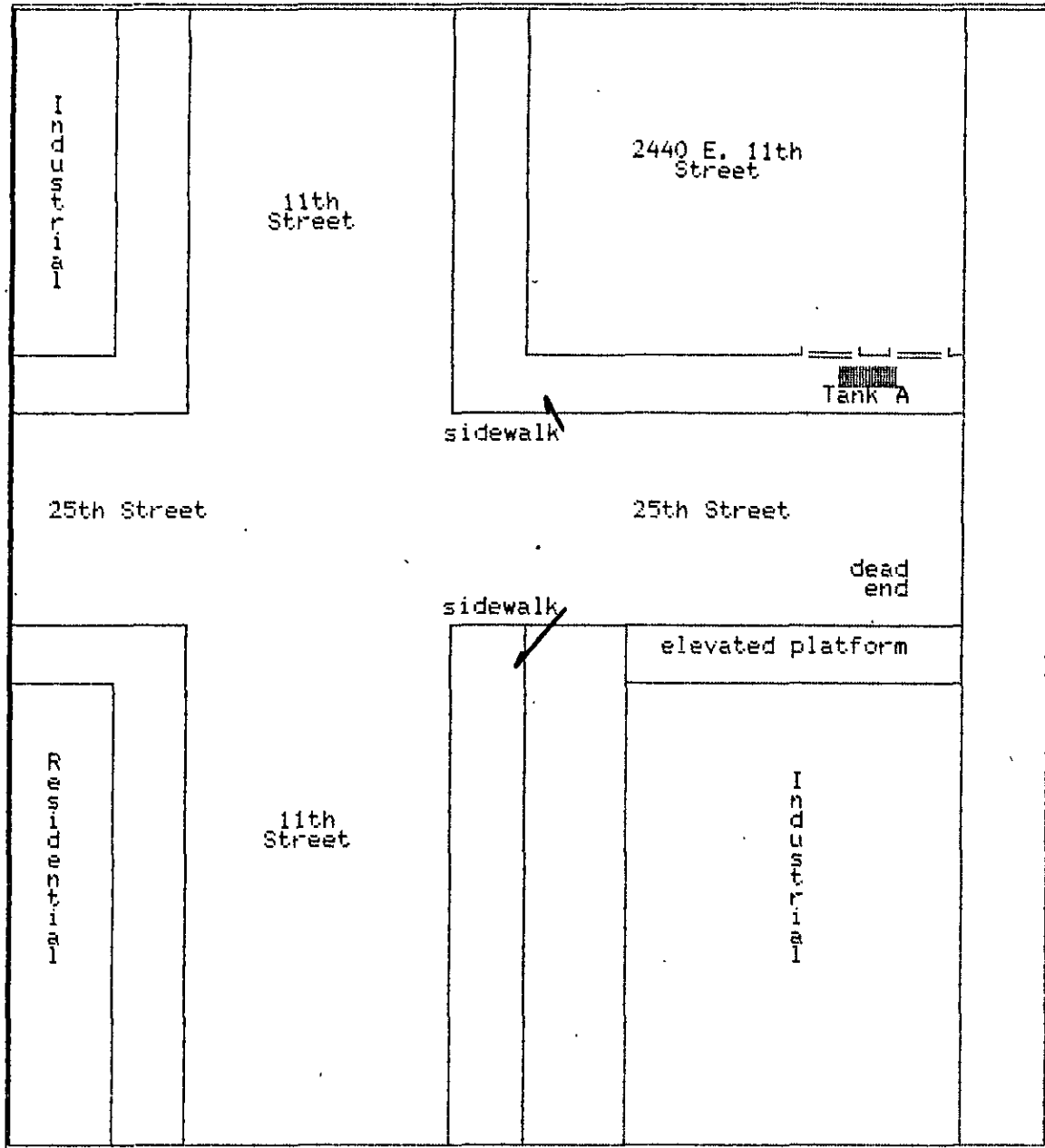
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scale: 1 inch = 0.6 miles

SITE LOCATION MAP

Figure 1

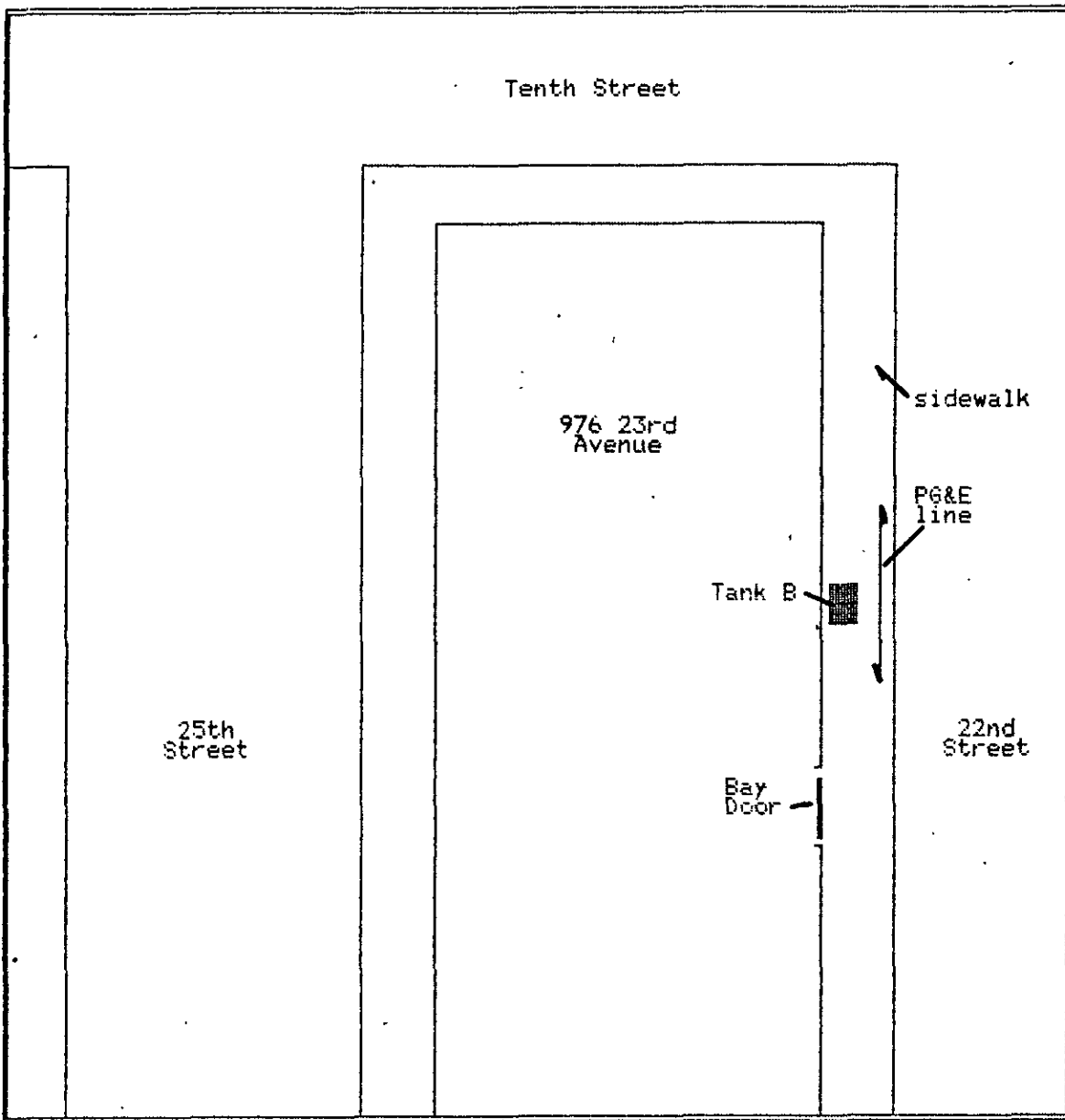


0' 30'

Scale: 1" = 30 feet

LOCATION OF 1,000-GALLON GASOLINE TANK

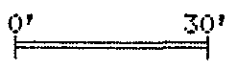
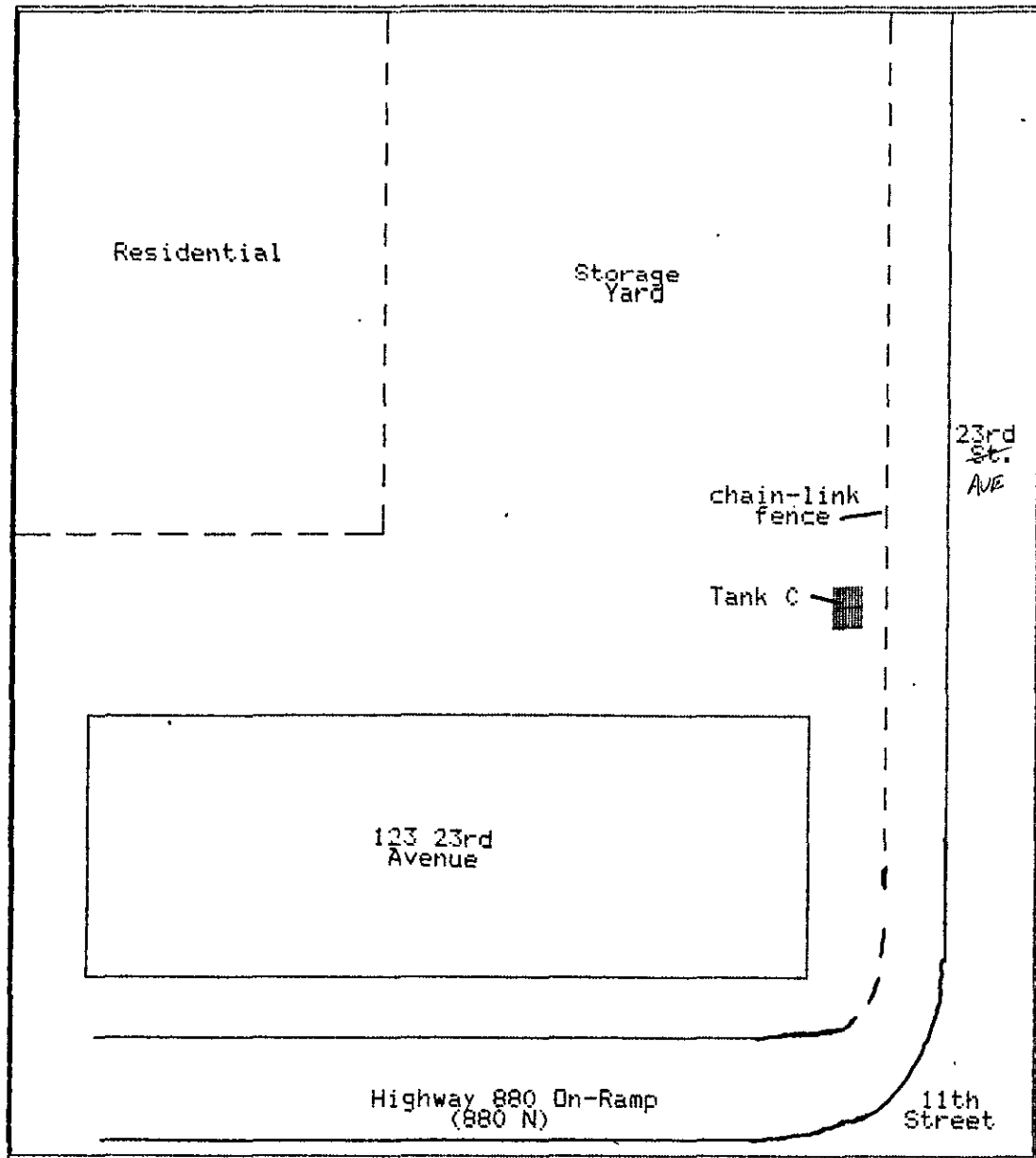
Figure 2A



Scale: 1" = 30 feet

LOCATION OF 550-GALLON GASOLINE TANK

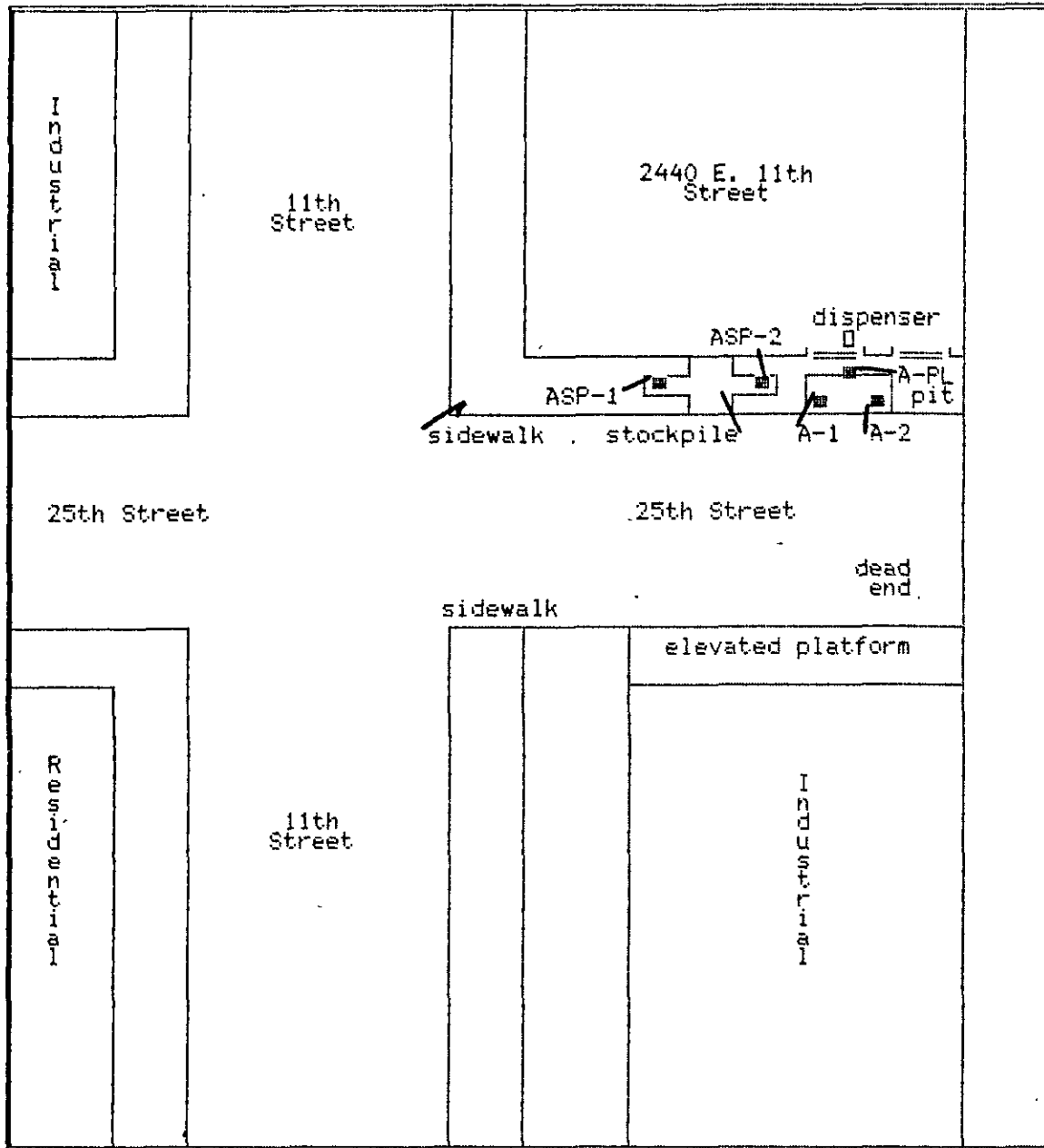
Figure 2B



Scale: 1" = 30 feet

LOCATION OF 1,000-GALLON DIESEL TANK

Figure 20

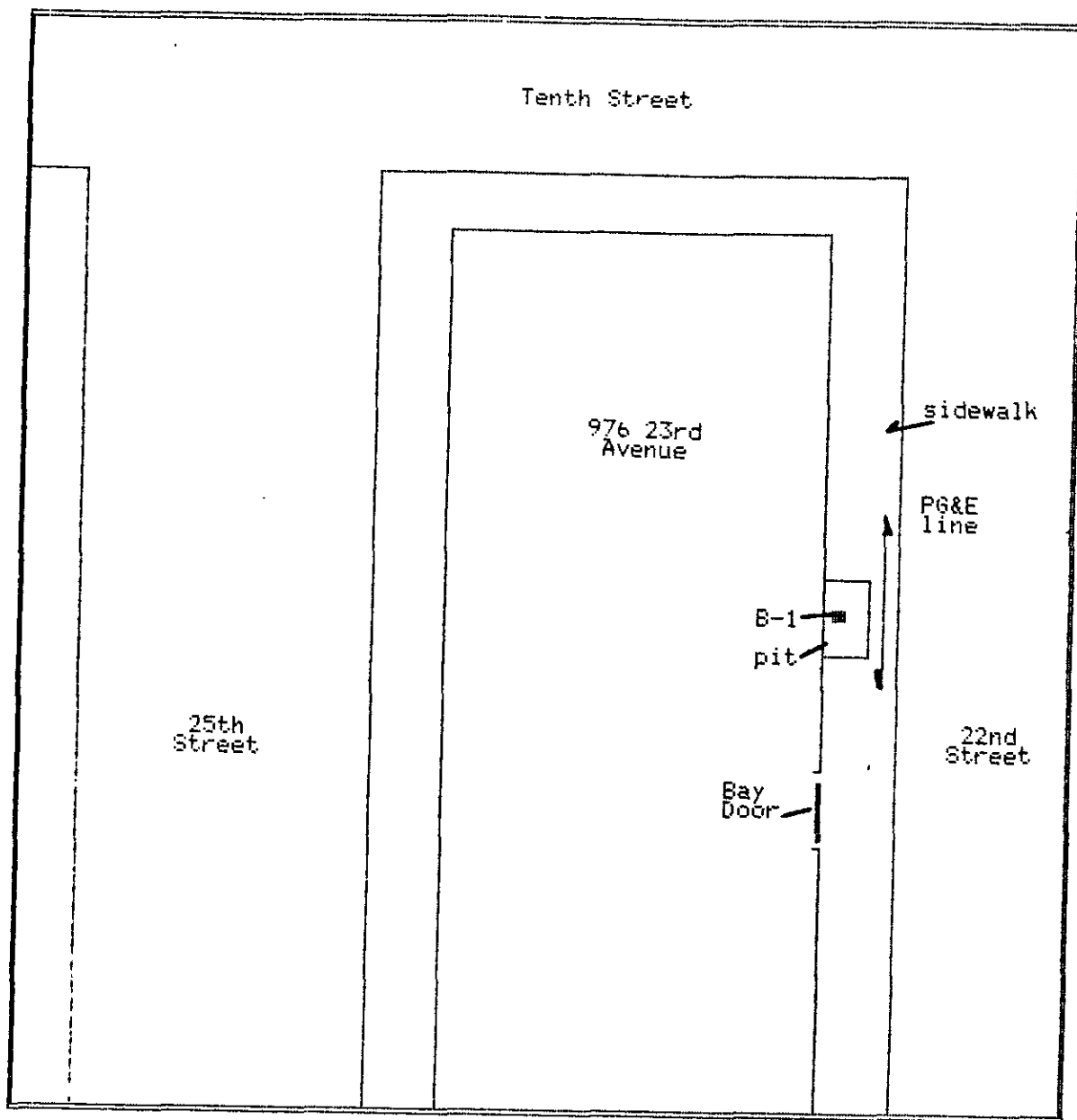


0' 30'

Scale: 1" = 30 feet

SAMPLE LOCATIONS OF 1,000-GALLON GASOLINE TANK

Figure 3A

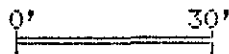
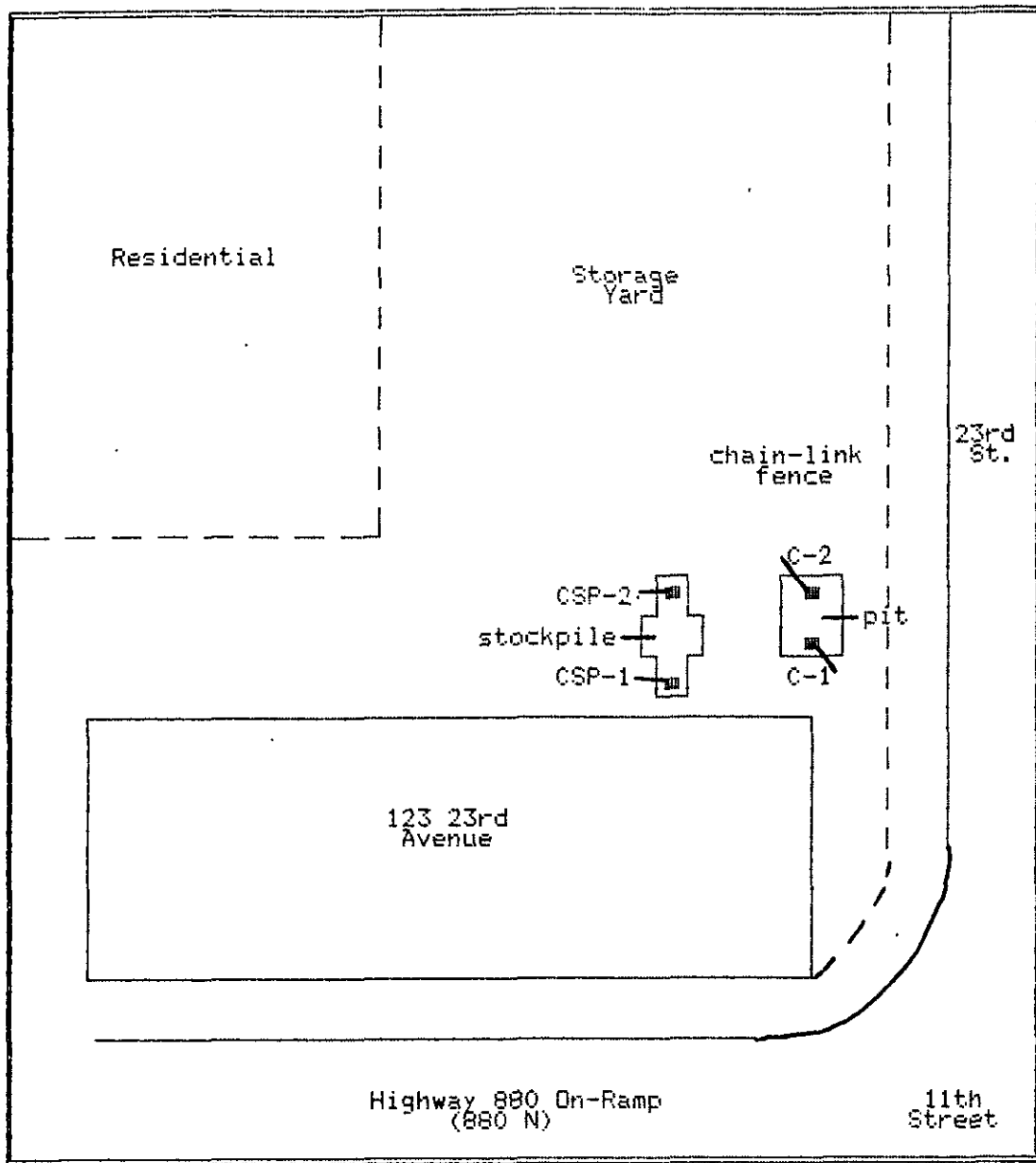


0' 30'

Scale: 1" = 30 feet

SAMPLE LOCATIONS OF 550-GALLON GASOLINE TANK

Figure 3B



Scale: 1" = 30 feet

LOCATION OF 1,000-GALLON DIESEL TANK

Figure 30

APPENDIX A
TANK REMOVAL PERMITS

Project Specialist (print) **SUSAN L. HUGO**

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

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

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed here is now eligible for issuance of any required building permits for construction.

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

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

- Removal of Tank and Piping
- Sampling
- Final Inspection

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

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE PERMITS.

Please note change made on page 495.

*Susan L Hugo
4/28/92*

UNDERGROUND TANK CLOSURE PLAN

* * * COMPLETE ACCORDING TO ACCEPTED INSTRUCTIONS * * *



1. Name of Facility EMDI METALWORKS

2. Street Address 376 20th Ave.

City Oakland State CA Zip 94612 Phone 510 231-1111

3. Mailing Address _____

City _____ Zip _____ Phone _____

4. Land Owner _____

Address _____ City, State _____ Zip _____

5. Generator name under which tank will be manifested EMDI METALWORKS

EPA I.D. No. under which tank will be manifested CAC000690312

rev 12/90

* need to submit completed forms A, B.
* Only clean fill can be used to backfill Hematite pit

CITY OF OAKLAND

PERMIT TO EXCAVATE IN STREETS OR OTHER WORK AS SPECIFIED

LOCATION OF WORK: 976 23RD AVE BETWEEN 10TH ST AND 11TH
(Street or Address) (Street/Ave.) (Specify)

PERMISSION TO EXCAVATE IN THE PUBLIC RIGHT-OF-WAY IS HEREBY GRANTED TO:

APPLICANT DAVE HOBBS

ADDRESS 1777 SACRAMENTO AVE, SAN JOSE, 95129 PHONE #: (408) 973-9532

TYPE OF WORK: GAS _____ ELECTRIC _____ WATER _____ TELEPHONE _____ CABLE TV _____ SEWER _____ OTHER Removal
(Specify)

NATURE OF WORK: GAS TANK REMOVAL

EXCV - 150
P.FEE 30
180

X9200665

OFFICIAL USE ONLY 50.00
UTILITY COMPANY REPORT 30.00
SUPERVISOR: SUBTL 180.00
CHECK 180.00
COMPLETION DATE: ITEM 2 5512 09:43T

CITY INSPECTOR'S REPORT

BACKFILL	PAVING
Initials	
Hours	
Date	
Concrete	
Asphalt	
Sidewalk	
Size of Cut: Sq. Ft. _____ Inches _____	
Paved by _____ Type _____	
Bill No. _____	
Charges _____ Backfill _____	
_____ Paving _____	
_____ Paving Insp. _____	
Traffic Striping Replaced _____	

APPROVED

Engineering Services	Date _____
Planning	Date _____
Field Services	Date _____
Construction	Date _____
Traffic Engineering	Date _____
Electrical Engineering	Date _____

DIRECTOR OF PUBLIC WORKS

APPROVED BY: _____
DATE: 5-1-92

EXTENSION GRANTED BY: _____
DATE: _____

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500:

I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 70044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period. (Sec. 7044, Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

I am exempt under Sec. _____ B&P.C. for this reason _____

Signature _____ Date _____

PERMIT VOID 90 DAYS FROM DATE OF ISSUE UNLESS EXTENSION GRANTED BY DIRECTOR OF PUBLIC WORKS.

Approximate Starting Date DATE 05-01

Approximate Completion Date DATE _____

HOLIDAY RESTRICTION (1 NOV - 1 JAN) YES _____ NO (X)

LIMITED OPERATION AREA (7AM - 9AM / 4PM - 6PM) YES (X) NO _____

DATE STREET LAST RESURFACED DATE _____

SPECIAL PAVING DETAIL REQUIRED YES _____ NO (X)

24-HOUR EMERGENCY PHONE NUMBER _____
PERMIT NOT VALID WITHOUT 24 HOUR NUMBER.

Telephone 238-3688 Forty-eight (48) HOURS BEFORE ACTUAL CONSTRUCTION.

ATTENTION

State law requires that contractor/owner call Underground Service Alert two working days before excavating to have below-ground utilities located. This permit is not valid unless applicant has secured an inquiry identification number issued by Underground Service Alert.

Call Toll Free: 800-642-2444 USA ID Number _____

This permit issued pursuant to all provisions of Chapter 6, Article 2 of the Oakland Municipal Code.

This permit is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance.

CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

LICENSE # AND CLASS 489743 (A) CITY BUSINESS TAX # _____
X Dave Hobbs Date 5/1/92
Signature of Contractor Owner or Agent
 Agent for Contractor Owner

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab C).

Policy # _____ Company Name _____

Certified copy is hereby furnished.

Certified copy is filed with the city building inspection dept.

Signature _____ Date _____

(This section need not be completed if the permit is for one hundred dollars (\$100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Signature Dave Hobbs Date 5/1/92

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

OWNER/BUILDER

WORKER'S COMPENSATION

SIGNATURE KEY TO PERMIT

CITY OF OAKLAND

PERMIT TO EXCAVATE IN STREETS OR OTHER WORK AS SPECIFIED

LOCATION OF WORK: 2440 E. 11TH ST. BETWEEN 25TH AND 23 AVE.
(Street or Address) (Street/Ave.) (Specify)

PERMISSION TO EXCAVATE IN THE PUBLIC RIGHT-OF-WAY IS HEREBY GRANTED TO:

APPLICANT: Dave Hobbs

ADDRESS: 1777 SARA TOBA AVE #100 SAN JOSE, 95129 PHONE #: (408) 973-9532

TYPE OF WORK: GAS _____ ELECTRIC _____ WATER _____ TELEPHONE _____ CABLE TV _____ SEWER _____ OTHER REMOVAL
(Specify)

NATURE OF WORK: GAS TANK REMOVAL

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 70044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period. (Sec. 7044, Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

I am exempt under Sec. _____ B&P.C. for this reason _____

Signature _____ Date _____

PERMIT VOID 90 DAYS FROM DATE OF ISSUE UNLESS EXTENSION GRANTED BY DIRECTOR OF PUBLIC WORKS. 05-01-99

Approximate Starting Date _____ DATE _____

Approximate Completion Date _____ DATE _____

HOLIDAY RESTRICTION (1 NOV - 1 JAN) YES _____ NO _____

LIMITED OPERATION AREA (7AM - 9AM/4PM - 6PM) YES _____ NO _____

DATE STREET LAST RESURFACED _____ DATE _____

SPECIAL PAVING DETAIL REQUIRED YES _____ NO _____

24-HOUR EMERGENCY PHONE NUMBER _____ PERMIT NOT VALID WITHOUT 24 HOUR NUMBER. Telephone 238-3688 Forty-eight (48) HOURS BEFORE ACTUAL CONSTRUCTION.

ATTENTION

State law requires that contractor/owner call Underground Service Alert two working days before excavating to have below-ground utilities located. This permit is not valid unless applicant has secured an Inquiry Identification number issued by Underground Service Alert.

Call Toll Free: 800-642-2444 USA ID Number _____

This permit issued pursuant to all provisions of Chapter 6, Article 2 of the Oakland Municipal Code.

This permit is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance.

CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

LICENSE # AND CLASS 489745-171 CITY BUSINESS TAX # _____

Signature of Contractor, Owner or Agent Dave Hobbs Date _____

Agent for Contractor Owner

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab C).

Policy # _____ Company Name _____

Certified copy is hereby furnished.

Certified copy is filed with the city building inspection dept.

Signature _____ Date _____

(This section need not be completed if the permit is for one hundred dollars (\$100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Signature Dave Hobbs Date 5/1/92

NOTICE TO APPLICANT. If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

Excav - 100
P.FEE 30
TOTAL 180
EXCV 150.00
192 APRIL 30.00

OFFICE USE ONLY
UTILITY COMPANY REPORT 0.00

Supervisor ITEM 2
Completion Date 201 5511 09142TM

CITY INSPECTOR'S REPORT

BACKFILL _____ PAVING _____
Initials _____
Hours _____
Date _____
Concrete _____
Asphalt _____
Sidewalk _____
Size of Cut: Sq. Ft. _____ Inches _____
Paved by _____ Type _____
Bill No. _____
Charges _____ Backfill _____
Paving _____
Paving Insp. _____
Traffic Striping Replaced _____ Date _____

APPROVED _____ Date _____
Engineering Services _____ Date _____
Planning _____ Date _____
Field Services _____ Date _____
Construction _____ Date _____
Traffic Engineering _____ Date _____
Electrical Engineering _____ Date _____
DIRECTOR OF PUBLIC WORKS
APPROVED BY: _____
DATE: 5-1-92
EXTENSION GRANTED BY: _____
DATE: _____

OWNER/BUILDER

WORKER'S COMPENSATION

CITY OF OAKLAND

APPENDIX B

HAZARDOUS WASTE MANIFESTS/CERTIFICATES OF DISPOSAL

Please print or type. Form designed for use on elite (12-pitch typewriter).

90648336 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. CAC00069031278550		Manifest Document No. 78550		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address EANDI METALWORKS 976 23RD AVE. OAKLAND, CALIFORNIA 94606						A. State Manifest Document Number 90648336							
4. Generator's Phone 510-532-8311						B. State Generator's ID							
6. Transporter 1 Company Name ERICKSON TRUCKING				8. US EPA ID Number CAD0009466392		C. State Transporter's ID 205701							
7. Transporter 2 Company Name						D. Transporter's Phone 510 235-1393							
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvd. Richmond, Ca 94801						E. State Transporter's ID							
10. US EPA ID Number CAD0009466392						F. Transporter's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid:						0103TIP02500		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: Three Empty Storage Tank (s) # 8661 8662 8663 Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity.						K. Handling Codes for Wastes Listed Above a. ① b. c. d.							
16. Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name EANDI METALWORKS & Phone (510) 532-8311													
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 DAVID HOBBS				Signature <i>David Hobbs</i>				Month Day Year 05/1/92					
Printed/Typed Name DAVID BUNCE				Signature <i>David Bunce</i>				Month Day Year 05/1/92					
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 Donald H. Rossen				Signature <i>Donald H. Rossen</i>				Month Day Year 05/1/92					

Do Not Write Below This Line

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 11411

CUSTOMER	H&H TOXIC
JOB NO.	78550

FOR: Erickson, Inc. TANK NO. 8661

LOCATION: Richmond DATE: 05/12/92 TIME: 08:01:17

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT LG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition 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 SIZE 550 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%
LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions 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 permissible 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 that 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 DR INSPECTOR

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 11412

CUSTOMER H&H TOXIC
JOB NO. 78550

FOR: Erickson, Inc. TANK NO. 8662

LOCATION: Richmond DATE: 05/12/92 TIME: 08:01:17

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT D

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition 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 SIZE 1000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions 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 permissible 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 DR INSPECTOR

APPENDIX C

LABORATORY REPORTS/CHAINS OF CUSTODY

CHROMALAB, INC.

5 DAYS TURNAROUND

Environmental Laboratory (1094)

May 20, 1992

ChromaLab File No.: 0592094

CONSOLIDATED TECHNOLOGIES

Attn: Dave Hobbs

RE: Nine soil samples for Diesel/BTEX analysis

Project Name: EANDI METALWORKS

Project Location: 23rd St., Oakland

Date Sampled: May 11, 1992

Date Submitted: May 11, 1992

Date Extracted: May 15, 1992

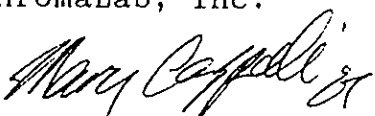
Date Analyzed: May 15-19, 1992

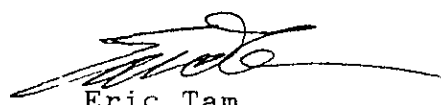
RESULTS:

Sample I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
C-1	----	N.D.	N.D.	15	N.D.	N.D.
C-2	----	N.D.	N.D.	16	N.D.	N.D.
CSP-1,2*	----	130	N.D.	N.D.	N.D.	N.D.
B-1	N.D.	----	N.D.	N.D.	N.D.	14
BSP-1,2*	N.D.	----	N.D.	N.D.	N.D.	N.D.
A-1	620	----	4400	25000	9300	55000
A-2	1100	----	11000	64000	19000	110000
A-PL	N.D.	----	23	6.0	N.D.	60
ASP-1,2*	10	----	33	320	51	1400
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	86%	92%	96%	82%	88%	92%
DUP.SPIKE REC.	----	93%	105%	96%	98%	121%
DET. LIMIT	1.0	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/ 8015	3550/ 8015	8020	8020	8020	8020

*Composite soil samples.

ChromaLab, Inc.


Mary Cappelli
Analytical Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

May 18, 1992

ChromaLab File No.: 0592094

CONSOLIDATED TECHNOLOGIES

Attn: Dave Hobbs

RE: Six soil samples for Total Lead analysis

Project Name: EANDI METALWORKS

Project Location: 23rd St., Oakland

Date Sampled: May 11, 1992

Date Submitted: May 11, 1992

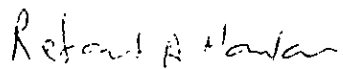
Date Extracted: May 16, 1992

Date Analyzed: May 18, 1992

RESULTS:

<u>Sample I.D.</u>	<u>Lead (mg/Kg)</u>
A-1	4.4
A-2	N.D.
A-PL	6.0
ASP-1,2 comp.	3.9
B-1	4.8
BSP-1,2 comp.	14.0
BLANK	N.D.
SPIKED RECOVERY	112%
DUPLICATE SPIKED RECOVERY	115%
DETECTION LIMIT	2.5
METHOD OF ANALYSIS	3050/7420

ChromaLab, Inc.


Refaat A. Mankarious
Inorganics Supervisor


Eric Tam
Laboratory Director

CHAIN OF CUSTODY RECORD

Consolidated Technologies

PROJECT NO.		SITE NAME & ADDRESS				ANALYSES REQUESTED ⁽¹⁾							REMARKS
		EANDI METALWORKS, 23 RD ST., OAKLAND				TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & B, T, X, & E	Total Oil & Grease	Halogenated HC's	B, T, X & E	Heavy Metals	TOTAL LEAD	
WITNESSING AGENCY / INSPECTOR NAME / DATE													
ALAMEDA COUNTY / ERINCY CHAN													
ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION								
C-1	5/11/92	12:00	X		UST PIT FLOOR	X	X						
C-2		12:10	X		" "	X	X						
CSP-1		12:15	X		STOCKPILE } COMPOSITE	X	X						
CSP-2		12:20	X			"							
B-1		11:10	X		UST PIT FLOOR	X						X	
BSP-1		11:15	X		STOCKPILE } COMPOSITE	X						X	
BSP-2		11:20	X			"							
A-1		12:50	X		UST PIT FLOOR	X						X	
A-2		12:55	X		" " "	X						X	
A-PL	Y	1:00	X		SIDEWALL	X						X	
						(1) See attached "Table 2" for specific analysis method.							
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? 2. Will samples remain refrigerated until analyzed? 3. Did any samples received for analysis have head space? 4. Were samples in appropriate containers and properly packaged?					
Jack Goulet			5/11/92 2:35		Erin Chan								
Relinquished by: (Signature)			Date/Time		Received by: (Signature)								
Relinquished by: (Signature)			Date/Time		Received by: (Signature)								
Relinquished by: (Signature)			Date/Time		Rec'd for Laboratory by: (Signature)			Signature _____ Title _____ Date _____					

