Final Report for

SITE INVESTIGATION FOR KELLY'S TRUCK REPAIR OAKLAND, CA

Prepared for:

Caltrans District 4

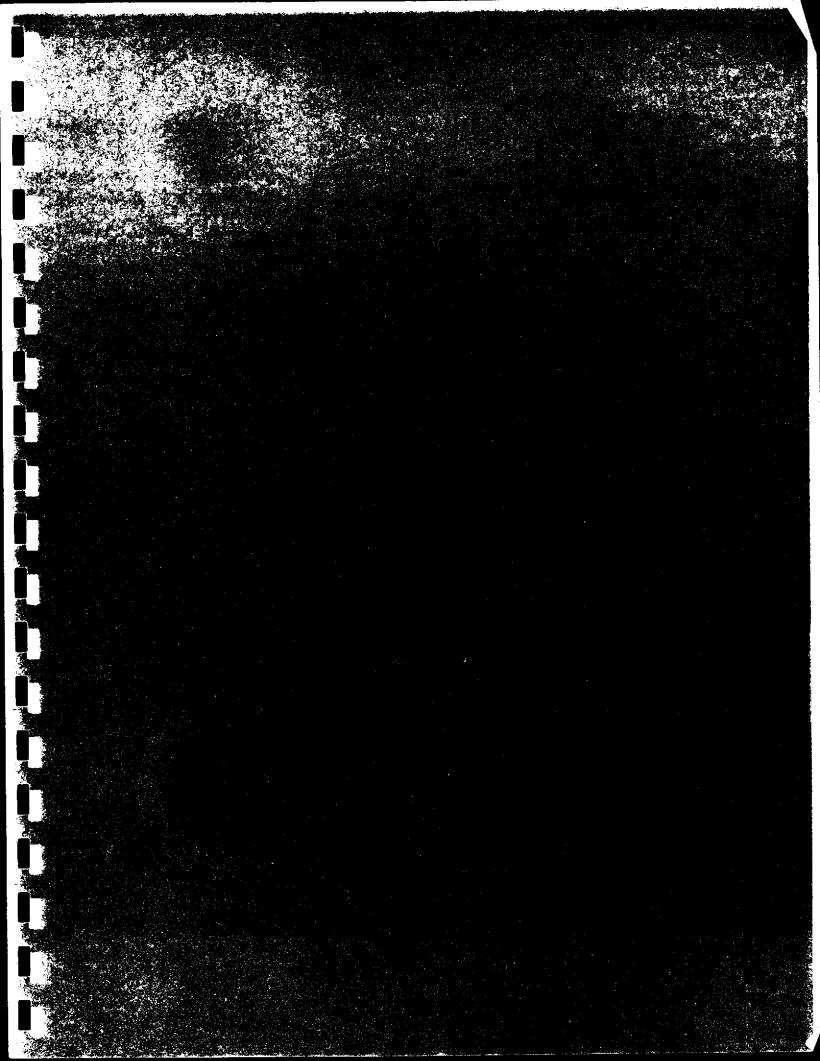
Environmental Engineering Branch 111 Grand Avenue, 14th Floor Oakland, California 94623-0660

Prepared by:

Tetra Tech 180 Howard Street, Suite 250 San Francisco, CA 94105

February 1993

TETRA TECH





TETRA TECH, INC.

180 Howard Street, Suite 250 San Francisco, CA 94105 Telephone (415) 974-1221

February 25, 1993

Mr. Allan Chow
State Department of Transportation
Environmental Engineering Branch
III Grand Avenue, 14th Floor
Oakland, CA 94623-0660

Subject:

Final Report: Site Investigation for Kelly's Truck Repair, Oakland, California

TC 9321-03, Contract No. 53S515, Task Order No. 04-191991-01

Dear Mr. Chow:

I have enclosed five copies of the revised Final Report of the Site Investigation for the Kelly's Truck Repair, Oakland, CA. The report was revised as per your suggestions.

Please don't hesitate to call me or Henri Roca at (415) 974-1221 if you have any questions.

Very Truly Yours,

Michael A. Wopat, R.G.

Senior Geologist

Enclosures

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CALTRANS DISTRICT 4
Environmental Engineering Branch
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Oakland, CA 94623-0660

February, 1993

Prepared by:

Michael A. Wopat TETRA TECH 180 Howard Street, Suite 250 San Francisco, CA 94105

DISCLAIMER

"The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the federal Highway Administration. This report does not constitute a standard, specification, or regulation."

The signature and stamp below constitute a certification that this document was prepared under my direct supervision and guidance.

Michael A. Wopat, Ph.D., R.G.

Senior Geologist

Registered Geologist No. 4445

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1.0 INVESTIGATIVE SUMMARY

Geophysical methods were used at Kelly's Truck Repair to verify the location of the known underground storage tank (UST) and to determine if other USTs might be present on the site. Ground-penetrating radar could not discern or verify the location of the "known" UST, but did identify an unknown anomaly about 15 feet farther west that might represent a UST. Except for this anomaly, no indications of buried tanks were perceived.

The site is underlain by fine- to medium-grained sand. The water table was at a depth of 8.5-9 feet on January 29, when the four soil borings were drilled.

Both the soil and the ground water near the known tank are contaminated by gasoline. Maximum soil contamination is near the water table at a depth of about 8 feet. Concentrations of hydrocarbons in the soil are as high as 6960 mg/kg for Total Recoverable Petroleum Hydrocarbons (TRPH), 2900 mg/kg for Total Petroleum Hydrocarbons as Gasoline (TPH-G), and 7870 mg/kg for Total Petroleum Hydrocarbons as Diesel (TPH-D). A grab ground water sample collected from the down-gradient boring contained 18.2 mg/l TRPH, 8.8 mg/l TPH-G, and 23.9 mg/l TPH-D, and its BTEX contents were 5.88 mg/l Benzene, 0.188 mg/l Toluene, 0. 520 mg/l Ethylbenzene, and 0.586 mg/l Xylenes.

The horizontal extent of the hydrocarbon contamination cannot be ascertained from the data collected to date. However, the high permeability of the sand that underlies the site facilitates dispersion of the contamination by ground water and as vapor. Consequently, both ground water and soil contamination could be extensive.

Neither the ground water sample nor the soil samples contained arsenic, cadmium, chromium, lead, mercury, or zinc in concentrations high enough to be of regulatory concern. In the soil, volatile organic compounds and semivolatile organic compounds are present only in samples that contain significant levels of hydrocarbons.

2.0 INTRODUCTION

This report presents the methods used and results of the Site Investigation at Kelly's Truck Repair yin Oakland, California for Caltrans District 4 pursuant to Contract No. 53S515, Task Order No. 04-191991-01.

2.1 PURPOSE AND OBJECTIVES

The Site Investigation was performed to obtain information needed to accomplish the following objectives:

- Verify the location of the known underground storage tank (UST) using groundpenetrating radar.
- Using ground-penetrating radar and magnetometry, determine if any other underground storage tanks are present on the site.
- Characterize the degree and extent of any soil or ground water contamination that may be present near the known tanks.

2.2 SITE DESCRIPTION

Kelly's Truck Repair is located in west Oakland at the intersection of Mandela Parkway (formerly Cypress Street) and 7th Street (Figure 1). The address of the 0.45 acre site is 1370 7th Street, Oakland. Although used as a truck repair and maintenance facility during the past few years, the site most recently has been used as a parking lot for cars driven by Bay Area Rapid Transit (BART) users.

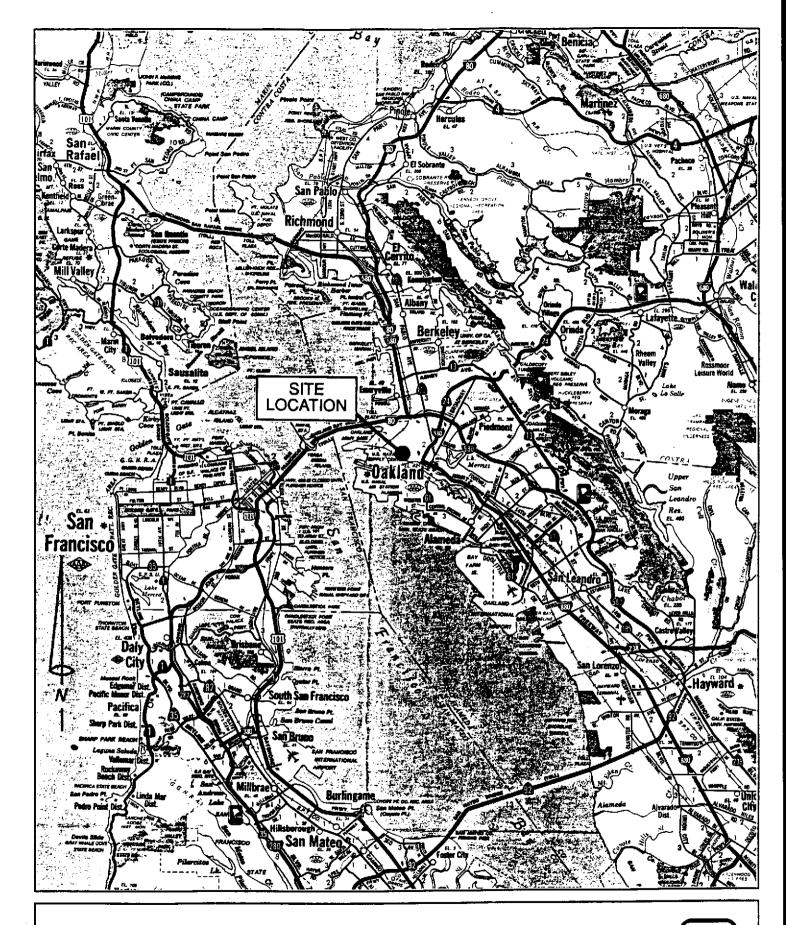
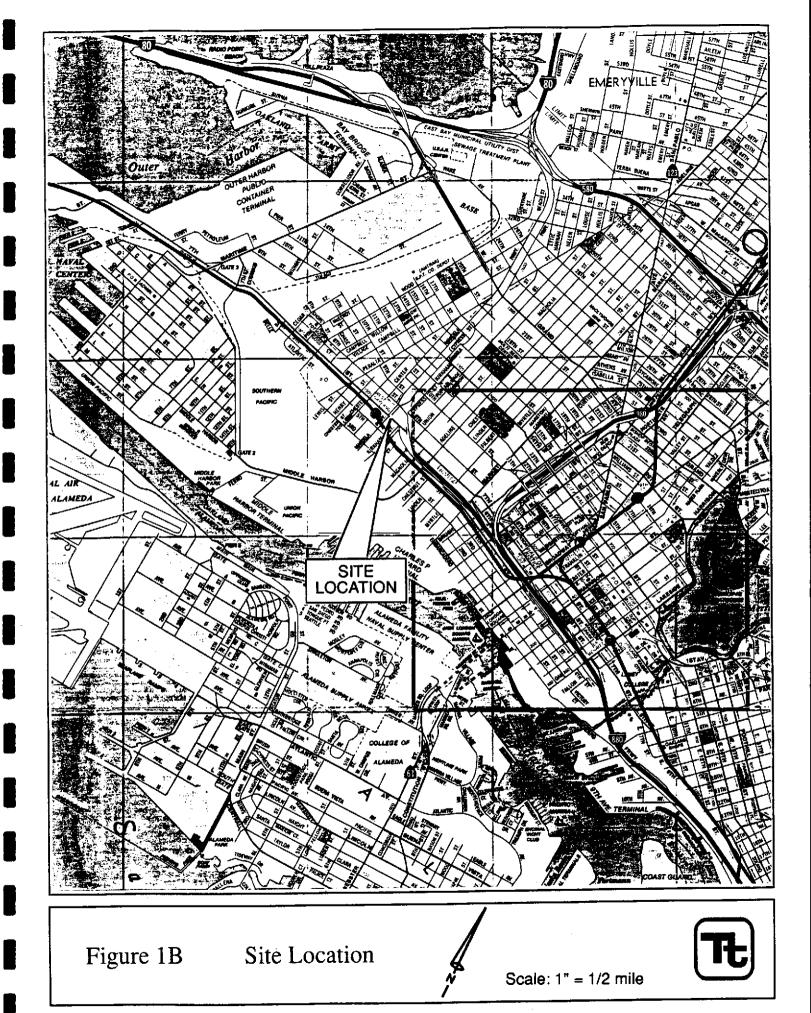


Figure 1A Regional Site Location

Scale: 1" = 4 miles



Land surface in the vicinity of the site is at an elevation of about 15 feet above mean sea level and slopes very gently southward. Oakland Inner Harbor, the body of water that separates Alameda from Oakland, lies about 4000 ft to the south. San Francisco Bay (Oakland Outer Harbor) is about 1.5 mi to the northeast.

The site itself consists largely of an asphalt-paved parking lot (Fig. 2). A single-story 50×100 ft building, more than 20 ft high, occupies the northwestern side of the lot. A trailer is parked at the southwest end of the building. The site is largely surrounded by steel fencing.

A single 500 gallon underground storage tank is believed to exist on site. According to the owner, the tank is located under the sidewalk just northwest of the south driveway (Figure 2). A strip of fresh concrete covers the fill end of the tank. No pump presently exists for the tank and Mr. Green has removed the tank's vent pipe.

2.2.1 Land Use

The area northeast of 7th Street is residential. Southwest of 7th avenue is the BART tracks, trucking companies, a US Post Office Distribution Center, and medium industry.

2.2.2 Geologic Setting

Sediments underlying the site consist of Pleistocene-age Merritt Sand overlying peaty mud (Helley, et al, 1972; 1979, p. 26). The Merritt Sand consists of loose, well-sorted, fine- to medium-grained sand with subordinate silt and has a maximum thickness of about 50 ft.

2.2.3 Hydrogeology

Because the elevation of the site is less than 15 ft, groundwater was expected to occur at a depth of \leq 15 ft below ground surface. The direction of ground water flow is expected to be toward the nearest

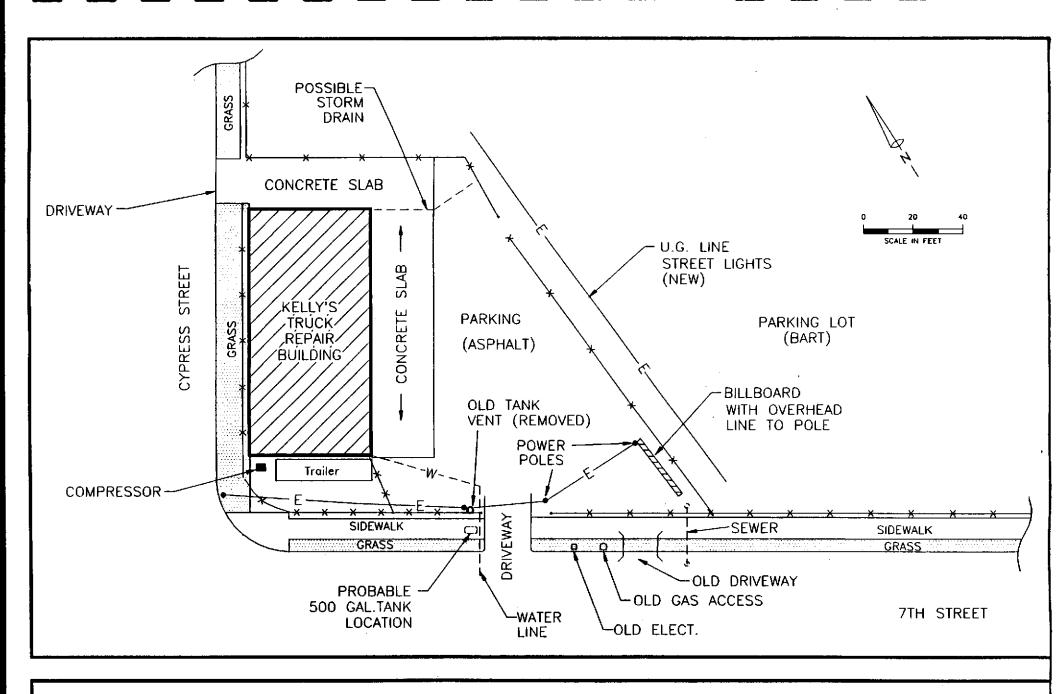


Figure 2

Site Map

DRAWN BY EH

PROJECT NO. 9321-01

KELLY'S TRUCK REPAIR 1370 7TH STREET OAKLAND, CALIFORNIA

DATE 12/23/92 FILE NO.



nearest open body of water, i.e., southward toward the Oakland Inner Harbor.

The Merritt Sand should have very high permeability and hydraulic conductivity. In contrast, the underlying peaty mud will have relatively low permeability and hydraulic conductivity.

2.3 SITE HISTORY

An initial site assessment (ISA) prepared by Caltrans showed the following site history.

- The area of the site contained only dwellings between 1911 and 1935
- The site was shown to be clear of dwellings in 1951
- A small gas station was located on the site for a few years later in the 1950's.
- Between 1967 and 1991 the following owners/tenants were listed at this address by the Haines and Polk Directories:
 - 1967 & 1969 No listing
 - 1973 McClains Trucking
 - 1975 R & R Trailer Repair
 - 1977 No listing
 - 1979 & 1981 Swearingin Trucking
 - 1982 No listing
 - 1985 Kelly's Truck Repair

1991 Kelly's Truck Repair Kelly's Towing Oakland Frame and Axle

The site is owned by Douglas Kelly Green and Carleen Green. As of late December, the site was leased by Caltrans. At that time, the building was used by Caltrans as temporary storage and the parking area was used by Bay Area Rapid Transit (BART) for a passengers parking area. Presently, the site is vacant and is advertised as for lease.

Review of the following lists showed no listing for the Kelly's Truck Repair parcel:

- U.S. Environmental Protection Agency (U.S. EPA) National Priorities list (NPL) for Uncontrolled Hazardous Waste Sites, February 1991
- U.S. EPA Comprehensive Environmental Response, Compensation, and Liability
 Information System (CERCLIS), July 1991
- California Regional Water Quality Control Board, San Francisco Bay Region
 (RWWCB) Fuel Leaks List, July 1991
- California Regional Water Quality Control Board, San Francisco Bay Region
 (RWQCB) Unregulated Sites List Region II, July 1991
- Hazardous Waste and Substances Sites List (Cortese List), November 1990
- California Environmental Protection Agency (Cal-EPA), Department of Toxic
 Substances Control Calsites List, November 1991

According to Mr. Green, a 500 gallon underground storage tank is located under the sidewalk near the south entrance to the lot. Inquiries of the following local agencies showed no record of an UST for this site.

- City of Oakland, Planning and Building Department
- Fire Department of Oakland
- Alameda County Health Department, Environmental Health Department.

The former contents of the tank were not known. Mr. Green did say that most recently the tank contained water whose elevation rose and fell with the ground water. This indicates that an opening in the tank or piping exists that allows the contents of the tank to equilibrate with the ground water.

2.4 WORK DONE FOR THE INVESTIGATION

The work performed for this investigation consists of the following:

- Prepare Work Plan and Health and Safety Plan (Tetra Tech, 1992a, 1992b);
- Investigate the site using geophysical methods to verify the location of the known
 UST and to determine if other USTs exist onsite;
- Drill four soil borings adjacent to the known UST and collect 3 soil samples from each boring;
- Collect one grab ground water sample from the down-gradient soil boring;
- Analyze all samples for TPH-G (gasoline), TPH-D (diesel), TRPH (heavy petroleum hydrocarbons such as oil and grease), BTEX (benzene, toluene, ethylbenzene, and xylene), volatile organics, semi-volatile organics, and the six metals arsenic, cadmium, chromium, lead, mercury, and zinc;
- Dispose of the drummed soil and wash water from the soil borings; and,
- Prepare and submit Final Report.

3.0 METHODS

3.1 GEOPHYSICAL INVESTIGATION

The purpose of the geophysical investigation was to (I) precisely locate the known underground storage tank (UST) pointed out by the owner, and (2) survey the rest of the lot to determine if any other USTs may be present.

The geophysical investigation was carried out by JR Associates. JR Associates provided a registered geophysicist, a technician, and equipment to perform a magnetic and radar investigation for one day at the site. Magnetic data was collected on 10 foot centers in the parking area on the east side of the old truck repair building. Radar data was collected over any magnetic anomaly that might indicate a buried tank, along the sidewalks adjacent to 7th Street and Cypress Street including the area designated as the site of the known UST, and in the parking area on the north side of the truck repair building. Radar data was collected along scan lines spaced approximately 5 feet apart. The field work took place on Sunday, December 27th.

A report of the geophysical investigation at Kelly's Truck Repair that describes the methods and results of the investigation was prepared by JR Associates, and is included in its entirety in this report (Appendix A). The report contains brief descriptions of the site, the equipment, and how the equipment was used. The report also contains a magnetic contour map, example radar profiles, and a site map showing the locations of buried pipe, storm drains, and a radar anomaly that might be indicative of a buried tank.

3.2 DRILLING AND SOIL SAMPLING

The purpose of the soil borings and the soil and ground water sampling was to determine if the soil and/or ground water is contaminated with any of the contaminants of concern. Originally, four soil

borings were proposed, one at each side and end of the probable tank. A fifth soil boring was later sited near a possible tank discovered during the geophysical investigation.

After locations of the five borings were marked in white paint, Underground Service Alert (USA) was contacted, so underground utilities could be marked prior to the geophysical investigation. USA No. 37809 was issued December 15, 1992. Final soil boring locations were adjacent to the known and inferred tanks, and took into account the locations of marked and inferred underground utilities.

Prior to drilling, a drilling permit was obtained from the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton, California (Appendix B).

Four soil borings were drilled using a hollow-stem auger drill rig with seven-inch outer-diameter augers. The fifth boring was not drilled due to time constraints. The presence of a overhead power line near the known tank prevented the use of a conventional drill rig because the mast would be too close to the line and might possibly contact it. Because of this, a special low-clearance drill rig, the Access II, was used for drilling. The drilling contractor was Soils Exploration Services of Vacaville, California. Because most of the soil borings were sited in the sidewalks, Vicker's Concrete Sawing, Inc., of San Francisco was subcontracted to core the concrete so the soil borings could be drilled.

Each of the four borings extended to a total depth of 13.5 ft below ground surface (bgs). Soil samples were collected at 5-foot intervals starting at the inferred top edge of the UST and extending to below the water table. Ground water was encountered at an average depth of 8.5 ft bgs. Three soil samples were collected from each soil boring.

Samples were collected using an 18-inch split-spoon sampler containing three 2×6 inch stainless-steel sample liners. Samples were obtained by driving the sampler into undisturbed soil ahead of the augers. After the sampler was recovered, the bottom sample liner was removed and prepared for shipment to the analytical laboratory by placing teflon film over both ends of the liner, holding the teflon

Although the task order requested that soil sampling stop at the water table, Tetra Tech recommended that at least one soil sample be collected below the water table in each boring. Fuel hydrocarbons commonly pool at the top of the water table. The sample of uncontaminated soil from below any zone of contamination is needed to constrain the vertical extent of the contamination.

in place with plastic caps, sealing the caps with adhesiveless tape, labeling the liner, and sealing it inside a plastic bag. The sample was then immediately placed in a cooler containing sufficient ice and blue ice to preserve the sample at 4 degrees Celsius until delivered to the laboratory. The field geologist then recorded the lithological description of the sample according to the Unified Soil Classification System (USCS). Field soil boring logs are in Appendix D.

Soil from the borings was put in two 55 gallon DOT drums and labelled for temporary storage onsite.

3.2.1 Surface Repair

Borings were abandoned by backfilling the borings to grade with neat cement.

3.2.2 Decontamination

All auger flights were decontaminated before and between borings using a steam cleaner. Soil sampling equipment was cleaned before and between each sampling event by scrubbing with a brush and laboratory-grade detergent, then triple rinsing with tap water, followed by a distilled water rinse. Decontamination water was put in a 55-gallon drum and labelled for temporary storage onsite.

3.2.3 Soil Sample Analysis

Each sample was labelled and a chain of custody form identifying the samples and analyses to be performed accompanied each sample shipment to the laboratory. All samples were analyzed by the following methods:

- EPA Method 8015 (modified) for Total Petroleum Hydrocarbons as diesel;
- EPA Method 8015 (modified) for Total Petroleum Hydrocarbons as gasoline;

- EPA Method 8020 for Benzene, Toluene, Xylene, and Ethylbenzene;
- EPA Method 418.1 for Total Recoverable Petroleum Hydrocarbons;
- EPA Method 8240 GC/MS for volatile organic compounds;
- EPA Method 8270 for semivolatile organic compounds; and,
- EPA Method 6010 for arsenic, cadmium, chromium, lead, mercury, and zinc.

A 48-hour turnaround time was requested for all analyses. If review of the analytical results showed any analytical result for a metal or volatile organic compound to be more than 10 times the Soluble Threshold Limit Concentration (STLC), a Waste Extraction Test (WET) was to be performed to determine the amount of soluble constituent. Similarly, if any total result for a metal or volatile organic compound was larger than 20 times the Toxicity Characteristic Leaching Procedure (TCLP) value, the TCLP was to be performed to determine the amount of TCLP soluble constituent.

The laboratory was required to perform the appropriate QA/QC procedures for each method used. If the particular method did not specify a QA/QC procedure, then the lab performed analysis on one spiked sample for each 10 samples analyzed, and did a percent recovery on at least one out of every ten samples analyzed.

3.3 GROUND WATER SAMPLING

A grab ground water sample was collected from the downgradient boring (B-4) using a teflon bailer lowered through the hollow-stem auger. The sample bottles were labelled and stored in a cooler with sufficient ice or blue ice to maintain the temperature at 4 degrees Celsius pending delivery to the laboratory. The bailer was decontaminated and cleaned before the sampling event by scrubbing it with a brush and laboratory-grade high-phosphate detergent and triple rinsing it with tap water, followed by a distilled water rinse.

The ground water sample was analyzed by the following methods:

- EPA Method 8015 (modified) for Total Petroleum Hydrocarbons as diesel;
- EPA Method 8015 (modified) for Total Petroleum Hydrocarbons as gasoline;
- EPA Method 602 for Benzene, Toluene, Xylene, and Ethylbenzene;
- EPA Method 418.1 for Total Recoverable Petroleum Hydrocarbons;
- EPA Method 8240 GC/MS for volatile organic compounds;
- EPA Method 8270 for semivolatile organic compounds; and,
- EPA Method 6010 (ICP) for dissolved arsenic, cadmium, chromium, lead, mercury and zinc.

3.4 ACCESS

Caltrans insured that the lot contained no parked cars during the geophysical investigation, and that sufficient space was available in the lot for the driller's trailer and support vehicle during drilling.

3.5 DRUM REMOVAL AND DISPOSAL

A total of three 55-gallon steel drums were completely or partly filled with soil (two drums) and washwater from steam cleaning of the augers and decontamination of the sampling equipment (one drum). The drums were moved January 8, 1993 from Kelly's Truck Repair to 1821 Goss Street, Oakland, California, for temporary storage until disposal. The Goss Street property is owned by Caltrans and is considered to be part of the larger Cypress Project site, as is Kelly's Truck Repair. MBM and Daughters, Redwood City, who specialize in loading and transportation of hazardous materials, moved the drums.

On Friday, January 29, 1993, H&H Environmental Services of San Francisco, who specialize in transportation and disposal of hazardous waste, picked up the drums for disposal. The drums containing soil were transported to Appropriate Technologies in Chula Vista, California, for disposal (Manifest No. 92216323, Appendix E). The drums containing water were taken to H&H Ship Service Company in San Francisco, California (Manifest No. 92216322, Appendix E).

4.0 RESULTS

4.1. GEOPHYSICAL INVESTIGATION

The information presented in this section is largely drawn from the geophysical report by JR Associates (Appendix A).

4.1.1. Magnetics

The parking area east of the building was surveyed on 10 foot centers with a magnetometer. A contour map was generated from the data. The map shows several anomalies, most of which appear to be caused by surface metal. Radar was used to scan those not clearly associated with surface metal. Results of the radar scans suggest the remaining anomalies probably result from buried pipes or metal reinforcement in the cement pad next to the building. There were no geophysical indications of buried tanks in the parking area.

4.1.2. Radar

Ground-penetrating radar was unable to verify the location of the "known" tank located by the owner. However, the radar was able to discern several utilities under the sidewalk, and an unknown anomaly that could be a tank about 15 ft west of the "known" tank (Appendix A, Figure 5). Except for this anomaly, no indications of buried tanks were perceived in the radar data.

4.2. SITE GEOLOGY

Site geology determined from soils encountered in the soil borings is similar to that anticipated (Sec. 2.2.2). The soil consists of grey to brown fine- to medium-grained sand that in some places is silty

and clayey. In borings I and 3, a coarse- to very coarse-grained pebbly sand was encountered at 3-3.5 feet below ground surface (bgs). This coarse sand is interpreted as possibly being backfill around the underground storage tank located by the site owner.

Ground water was encountered in the borings at depths of 8.5-9 ft bgs. The direction of ground water flow is presumed to be to the south or southwest, towards the nearest body of open water, Oakland's Inner Harbor. Because the site is about 4,000 feet north of the harbor, ground water flow is unlikely to be affected by tides.

4.3. ANALYTICAL RESULTS

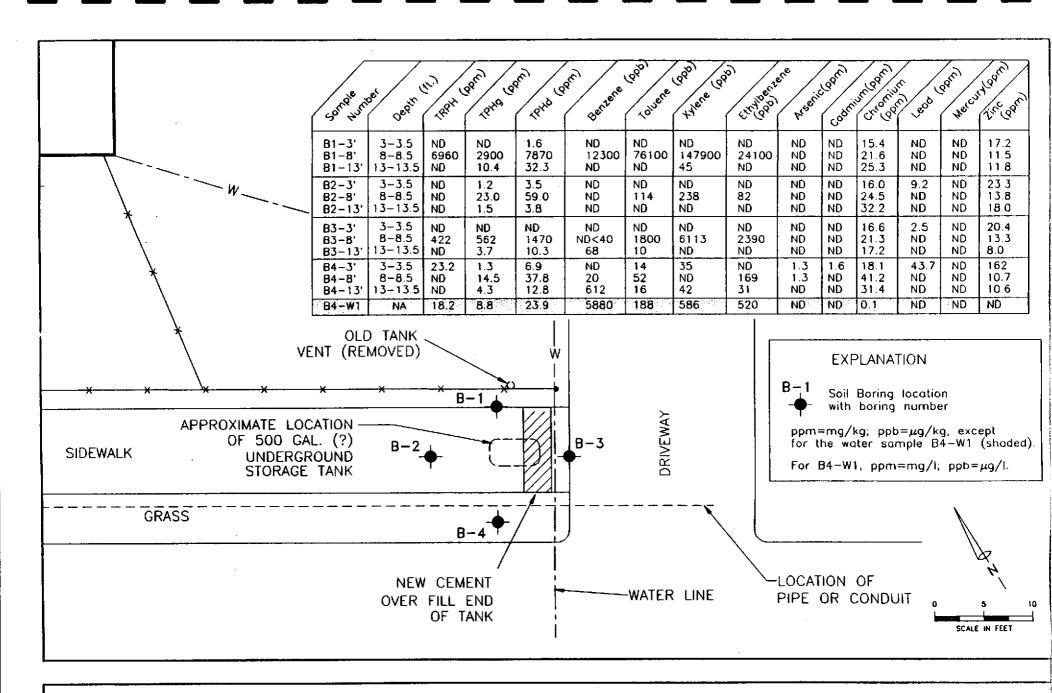
Analytical results for hydrocarbon and metals analyses were initially reported in a letter report to Allan Chow on January 7, 1993. Laboratory reports of analytical results are in Appendix C.

4.3.1. Soil Samples

The soil is clearly contaminated with hydrocarbons at a depth of about 8 feet on the north and east side of the underground storage tank (Figure 3, Table IA). Concentrations of hydrocarbons in samples B1-8 and B3-8 are as high as 6960 mg/kg for Total Recoverable Petroleum Hydrocarbons (TRPH), 2900 mg/kg for Total Petroleum Hydrocarbons as Gasoline (TPH-G), and 7870 mg/kg for Total Petroleum Hydrocarbons as Diesel (TPH-D). These samples also contained elevated concentrations of Benzene (12.3 mg/kg), Toluene (76.1 mg/kg), Ethylbenzene (24.1 mg/kg) and Xylenes (147.9 mg/kg) (BTEX). According to Shawn Coleman of DAS, the soils and water are contaminated with gasoline; high TPH-D values are a result of overlap of the gasoline contamination into the diesel range.

Concentrations of the six metals were all well below levels of regulatory concern (Figure 3, Table 1B).

Volatile and semivolatile organics are found in the same samples that exhibit significant hydrocarbon contamination (Table IC). Maximum concentrations are found in samples from about 8 feet



Tank Area, showing location of soil borings and analytical results

KELLY'S TRUCK REPAIR 1370 7TH STREET OAKLAND, CALIFORNIA



Figure 3

FILE NO.

TABLE 1A
ANALYTICAL RESULTS FOR HYDROCARBONS IN SOIL SAMPLES COLLECTED
FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

Sample No.	Date Collected	TRPH (418,1) (mg/kg)	TPH-G (8015 mod) (mg/kg)	TPH+D (8015 mod) (mg/kg)	Benzene (8020) (ug/kg)	Toluene (8020) (ug/kg)	Ethylbenzene (8020) (ug/kg)	Xylenes (8020) (ug/kg)
B1-3	12/29/92	ND	ND	1.6	ND	ND	ND	ND
B1-8	12/29/92	6960	2900	7870	12300	76100	24100	147900
B1-13	12/29/92	ND	10.4	32.3	ND	ND	ND	45
B2-3	12/29/92	ND	1.2	3.5	ND	ND ·	ND	ND
B2-8	12/29/92	ND	23	59	ND	114	82	238
B2-13	12/29/92	ND	1.5	3.8	ND	ND	ND	ND
B3-3	12/29/92	ND	ND	ND	ND	ND	ND	ND
B3-8	12/29/92	422	562	1470	ND	1800	2390	6113
B3-13	12/29/92	ND	3.7	10.3	68	10	ND	ND
B4-3	12/29/92	23.2	1.3	6.9	ND	14	ND	35
B4-8	12/29/92	ND	14.5	37.8	20	52	169	ND
B4-13	12/29/92	ND	4.3	12.8	612	16	31	42
	on Limit	5 617	1 000 5	1	10	10	10	10
13	Average		293.5	792.3	1083	6509	2231	12864
l)	mum 	6960	2900	7870	12300	76100	24100	147900
Mini	mum	ND ND	ND	ND	ND	ND	ND	ND

ND=Not detected at or above listed detection limit.

TABLE 1B
ANALYTICAL RESULTS FOR METALS IN SOIL SAMPLES COLLECTED
FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

Sample No.	Date Gollected	Arsenic (6010) (mg/kg)	Cadmium (6010) (mg/kg)	Chromium (6010) (mg/kg)	Lead (6010) (mg/kg)	Mercury (6010) (mg/kg)	Zinc (6010) (mg/kg)
B1-3	12/29/92	ND	ND	15.4	ND	ND	17.2
B1-8	12/29/92	ND	ND	21.6	ND	ND	11.5
B1-13	12/29/92	ND	ND	25.3	ND	ND	11.8
B2-3	12/29/92	ND	ND	16	9.2	ND	23.3
B2-8	12/29/92	ND	ND	24.5	ND	ND	13.8
B2-13	12/29/92	ND	ND	32.2	ND	ND	18
B3-3	12/29/92	ND	ND	16.6	2.5	ND	20.4
B3-8	12/29/92	ND	ND	21.3	ND	ND	13.3
B3-13	12/29/92	ND	ND	17.2	ND	ND	8
B4-3	12/29/92	1.3	1.6	18.1	43.7	ND	162
B4-8	12/29/92	1.3	ND	41.2	ND	ND	10.7
B4-13	12/29/92	ND	ND	31.4	ND	ND	10.6
τ	tion Limit TLC TLC	1 500 5	0.5 100 1.0	1 2500 5	1 1000 5	1 20 0.2	1 5000 250
Ma	rerage ximum nimum	0.2 1.3 ND	0.1 1.6 ND	23.4 41.2 15.4	4.6 43.7 ND	0.0 0 ND	26.7 162 8

ND = Not detected at or above listed detection limit.

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

TABLE 1C
ANALYTICAL RESULTS FOR VOLATILE AND SEMIVOLATILE ORGANICS IN SOIL SAMPLES COLLECTED
FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

Sample No.	Volatile Organic Compo	unds (EPA 8240)	Semivolatile Organic Compounds (EPA 8270)		
	Name	Results (ug/kg)	Name	Results (ug/kg)	
B1-3	All analytes (n = 40)	ND	All analytes (n = 67)	ND	
B1-8	Benzene	7,310	Napthalene	34,229	
	Toluene	90,800	2-Methylnapthene	34,995	
	Ethylbenzene	50,900	Other 65 analytes	ND	
	Meta- & Para-Xylene	201,000			
	Ortho-Xylene	78,900			
	Other 35 analytes	ND			
B1-13	Alt analytes (π = 40)	ND	All analytes (n = 67)	ND	
B2-3	All analytes (n = 40)	ND	All analytes (n = 67)	ND	
B2-8	Ethylbenzene	11	All analytes (n = 67)	ND	
	Meta- & Para-Xylene	18			
	Other 38 analytes	ND			
B2-13	All analytes (n = 40)	ND	All analytes (n = 67)	ND	

TABLE 1C
ANALYTICAL RESULTS FOR VOLATILE AND SEMIVOLATILE ORGANICS IN SOIL SAMPLES COLLECTED
FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

Sample No.	Volatile Organic Compou	nds (EPA 8240)	Semivolatile Organic Compounds (EPA 8270)		
	Name	Results (ug/kg)	Name	Results (ug/kg)	
B3-3	All analytes (n = 40)	ND	All analytes (n = 67)	ND	
B3-8	Ethylbenzene	496	Pyrene	10,526	
	Meta- & Para-Xylene	411	Benzo(A)Anthracene	13,062	
	Other 38 analytes	ND	Chrysene	17,962	
:	•		Benzo(B)Fluoranthene	26,697	
			Benzo(K)Fluoranthene	11,961	
			Benzo(A)Pyrene	22,106	
			Indeno(1,2,3-CD)Pyrene	27,566	
			Dibenzo(A,H)Anthracene	8,338	
			Benzo(G,H,I)Perylene	31,744	
·			Other 58 analytes	ND	
B3-13	Benzene Other 39 analytes	12 ND	All analytes (n = 67)	ND	
B4-3	Toluene	7	All analytes (n = 67)	ND	
- '	All other analytes (n = 39)	ND	-		
B4-8	Ethylbenzene	9	All analytes (n = 67)	ND	
	Ali other analytes (n = 39)	ND			
B4-13	Benzene	46	All analytes (n = 67)	ND	
	All other analytes (n = 39)	ND			

ND = Not Detected at or above listed detection limit for each analyte. See Laboratory results (Appendix C) for detection limits.

TABLE 2A
ANALYTICAL RESULTS FOR HYDROCARBONS IN WATER SAMPLE COLLECTED
FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

Sample No.	Date Collected	TRPH (418,1) (mg/l)	TPH-G (8015 mod) (mg/l)	TPH-D (8015 mod) (mg/l)	Benzene (602) (ug/l)	Toluene (602) (ug/l)	Ethylbenzene (602) (ug/l)	Xylenes (602) (ug/l)
B4-W1	12/29/92	18.2	8.8	23.9	5880	188	520	586
Detecti	on Limit	1	1	1	10	10	10	10

ND = Not Detected at or above listed detection limit.

TABLE 2B

ANALYTICAL RESULTS FOR DISSOLVED METALS IN WATER SAMPLE COLLECTED
FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

B4-W1	12/29/92	(6910) (mg/l) ND	(6010) (mg/l)	(6010) (mg/l)	(6010) (mg/l) ND	(6010) (mg/l) ND	(6010) (mg/l) ND
Detection Limit		0.5	0.1	0.1	0.5	0.2	0.1

ND = Not Detected at or above listed detection limit.

TABLE 2C ANALYTICAL RESULTS FOR VOLATILE AND SEMIVOLATILE ORGANICS IN GROUND WATER SAMPLE COLLECTED FROM KELLY'S TRUCK REPAIR, OAKLAND, CALIFORNIA

Sample No.	Volatile Organic Compou	inds (EPA 8240)	Semivolatile Organic Compou	ids (EPA 8270)
	Name	Results (ug/l)	Name	Results (ug/l)
B4-W1	Benzene	5,500	Napthalene	306
	Toluene	212	All other analytes (n = 66)	ND
	Ethylbenzene	660		
	Meta- & Para-Xylene	612		
	Other 36 analytes	ND		

ND = Not Detected at or above listed detection limit for each analyte. See Laboratory results (Appendix C) for detection limits.

5.0 DATA EVALUATION AND DISCUSSION

The soils adjacent to the known tank at Kelly's Truck Repair are clearly contaminated with gasoline. The soil contamination appears to be largest about 8 ft bgs, i.e., near the water table. The horizontal extent of soil and ground water contamination is unknown. The high concentration of TPH in samples from borings I and 3 suggests that the bulk of the soil contamination is north and east of the tank.

The TPH contents of the water sample clearly demonstrate that the ground water has been contaminated. Ground water is expected to flow to the south or southwest. The elevated levels of BTEX, the water-soluble constituents of gasoline and diesel, in the soil samples from 13 ft bgs (below the water table) in borings B3 and B4 are consistent with down-gradient transport of these constituents by ground water.

The extent of the ground water contamination cannot be determined from the data collected to date. The high permeability of the Merritt Sand facilitates dispersion of the contamination by the ground water and as vapor. Thus, both ground water and soil contamination could be extensive.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Both soil and ground water at the Kelly's Truck Repair site are contaminated with gasoline. The extent of contamination is not known. Additional investigations will be needed if Caltrans wishes to determine the extent of contamination. Because the contaminant is gasoline, Tetra Tech suggests that the extent of contamination be approximately determined with a soil vapor survey. Then, soil borings could be sited on the basis of the soil vapor results and drilled to collect soil and groundwater samples to confirm the extent of contamination.

Once the extent of contamination has been satisfactorily determined, the contaminated soil and ground water should be remediated. The soil could be remediated by (a) excavating it and remediating it on or off site using bioremediation or possibly other methods, or (b) installing a vapor extraction system to remove the volatile gasoline with the soil in place. Ground water could be remediated by pumping the groundwater to the surface, treating it by any of a variety of methods, and either disposing of it, or if approved, returning it to the subsurface. Various other remediation methods are possible, but for the purposes of providing a cost estimate only these are considered.

Once the soil and ground water have been remediated, the ground water will have to be monitored for a minimum of one year to demonstrate that the contamination has been successfully remediated.

7.0 REFERENCES CITED

Helley, E.J., K.R. Lajoie, and D.B. Burba. 1972. Geologic map of Late Cenozoic deposits, Alameda County, California. Scale 1:62,500.

Helley, E.J., K.R. Lajoie, W.E. Spangle, and M.L. Blair. 1979. Flatland deposits of the San Francisco Bay Region, California -- their geology and engineering properties, and their importance to comprehensive planning. US Geological Survey Professional Paper 943. 88 pages. 3 Plates, scale 1:125,000.

Tetra Tech, Inc. 1992a. Work Plan for Site Investigation for Kelly's Truck Repair, Oakland, CA (December, 1992).

Tetra Tech, Inc. 1992b. Health and Safety Plan for Site Investigation for Kelly's Truck Repair, Oakland, CA (December, 1992).

J R ASSOCIATES

Engineering Geophysics 1886 Emory Street San Jose, CA 95126 (408) 293-7390

GEOPHYSICAL INVESTIGATION AT KELLY'S TRUCK REPAIR 1370 7TH STREET OAKLAND, CALIFORNIA

January 5, 1993

For

Tetra Tech, Incorporated 180 Howard Street, Suite 250 San Francisco, California 94105-1221

Ву

James Rezowalli, GP-921

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LIST OF ILLUSTRATIONS

Drawing 1 Site Map

Drawing 2 Data Coverage

Drawing 3 Magnetic Contour Map

Drawing 4 Example Radar Profiles

Drawing 5 Radar Results

I INTRODUCTION

This report presents the results of a geophysical investigation performed by J R Associates for Tetra Tech, Incorporated. J R Associates performed the investigation at the Kelly's Truck Repair Site in Oakland, California (Drawing 1). The investigation's purpose was to look for geophysical indications of buried tanks at the site. James Rezowalli, Principal Geophysicist, and Tom Barry, Technician, of J R Associates performed the field investigation on December 27, 1992.

A. Site

Kelly's Truck Repair is at 1370 7th Street in Oakland, California. The site consists of a building formerly used for truck repair, a trailer, and a parking lot (Drawing 1). Cypress Street bounds the site's west side and 7th Street bounds the site's south side. A cyclone fence surrounds the area. The site is currently used for parking.

Tetra Tech provided information regarding an alleged buried tank. The tank is said to be buried under the sidewalk near the 7th Street entrance to the parking lot. The alleged tank's fill spout apparently was covered during the demolition of the Highway 880 overpass. There was no information available to determine if there were other tanks buried at the site. The purpose of the geophysical investigation was to help locate the alleged tank and to help determine if any other tanks are buried at the site.

II METHODS

Several geophysical techniques can detect buried metal objects such as fuel storage tanks. The most appropriate method for this site was a combination of magnetics and ground penetrating radar. A magnetic investigation maps the vertical magnetic gradient. The magnetic gradient is uniform throughout a site free of metal. The magnetic gradient at a site that contains ferrous metal is not uniform. Metal objects produce magnetic anomalies with characteristic shapes and magnitudes. A tank anomaly is characterized by a strong magnetic low just south of the center of the tank and a weaker magnetic high just north of the tank. Magnetic lows typically range from -300 gammas to -1000 gammas. Magnetic highs are usually half the value of the magnetic lows. This type of anomaly is what we use to locate buried tanks.

We augmented the magnetic investigation with a ground penetrating radar. The radar was used in areas where surface metal would interfere with the magnetometer. Also the radar was used to help image the source of magnetic anomalies. The radar sends an energy pulse into the ground. The pulse can be reflected back to the surface by objects such as buried tanks or pipes. Pulses reflected off buried objects are commonly called radar anomalies.

A. Magnetic Instrumentation

We used a Geometrics model 856AG proton precession magnetometer/gradiometer to collect magnetic data at the site. The magnetometer has two sensors and an electronics package. The magnetometer can collect both total field data and vertical gradient data. The magnetometer can discriminate to 0.2 gammas in a total field of 40,000 to 60,000 gammas. Magnetic readings are stored in memory with the time of day, station numbers, and line numbers of the

readings. The data were downloaded to a computer in the field. We then processed and contoured the data using the computer.

B. Magnetic Field Procedures

Magnetic data were collected in the open parking lot (Drawing 2). The data were collected on stations at 10 foot intervals along traverse lines spaced 10 feet apart. A data collection station is shown by "+" on the magnetic contour map. An anomaly is indicated by a series of concentric magnetic contours. There were several magnetic anomalies at the site. These anomalies will be discussed later in the report.

C. Radar Instrumentation

We used a SIR 3 ground penetrating radar system to collect radar data at the site. The SIR 3 has a radar control unit, a graphic profiler, and a 500 MHz antenna. The antenna transmits a radio frequency electromagnetic pulse into the ground. The pulse travels through the ground at approximately $2\frac{1}{2}$ nanoseconds per foot. Buried features, such as tanks, reflect the pulse back to the ground surface. The radar detects the returning reflections and plots them on the graphic profiler.

D Radar Field Procedures

Radar data were collected along the 7th Street sidewalk, the Cypress Street sidewalk, and in the driveway on the north side of the building (Drawing 2). In addition, we collected radar data over magnetic anomalies found in the parking lot. Radar collection began by marking the beginning and the end of a radar scan line. A tape measure was then laid on the ground between the beginning and end marks. The antenna, connected to the control unit by a cable, was dragged along the traverse while collecting a radar profile next to the tape measure. The antenna operator manually marked the radar records

every time the radar antenna traveled 5 feet. The vertical dashed lines on the radar records were created by pressing a momentary switch connected to the antenna. After a traverse was completed, the tape measure was moved to the next scan line and the above process was repeated. Scan lines were spaced approximately 5 feet apart and were oriented both north to south and east to west.

III RESULTS

A. Magnetic Contours

Drawing 3 is a magnetic contour map of the parking area. The contour map contains several magnetic anomalies. Most of the anomalies appear to be caused by surface metal. The anomalies not clearly associated with surface metal were scanned with the radar. The radar indicated the remaining anomalies were probably caused by buried pipes or by metal reinforcement within the concrete pad next to the building. There were no geophysical indications of buried tanks in the parking area.

B. Radar Profiles

Drawing 4 illustrates two radar profiles collected at the site. The profile on the left is one profile collected on the Cypress Street sidewalk. A gas pipe buried beneath the sidewalk is clearly seen in the profile. The depth to the pipe was measured with a pipe and cable locator and determined to be approximately 3.2 feet. The profile on the right shows a pipe buried a little more than 1 foot beneath the surface and an unknown object buried approximately 4½ feet beneath the ground surface. It is possible the unknown anomaly is a small buried tank.

Drawing 5 shows the results of the radar profiles. The radar identified several utilities, many apparently abandoned pipes, and the unknown anomaly illustrated in Drawing 4. Except for the unknown radar anomaly, there were no indications of buried tanks in the radar data.

C. Limitations

Magnetic methods locate ferrous objects from the anomalies they produce in the earth's magnetic field. It is possible that some ferrous objects will not produce an anomaly. Some possible reasons are that the object is buried too deep, the object is too small, the object is buried under or near another ferrous object, or an object is buried near a utility. It is possible there are materials buried at the site that were not detected by the magnetic survey.

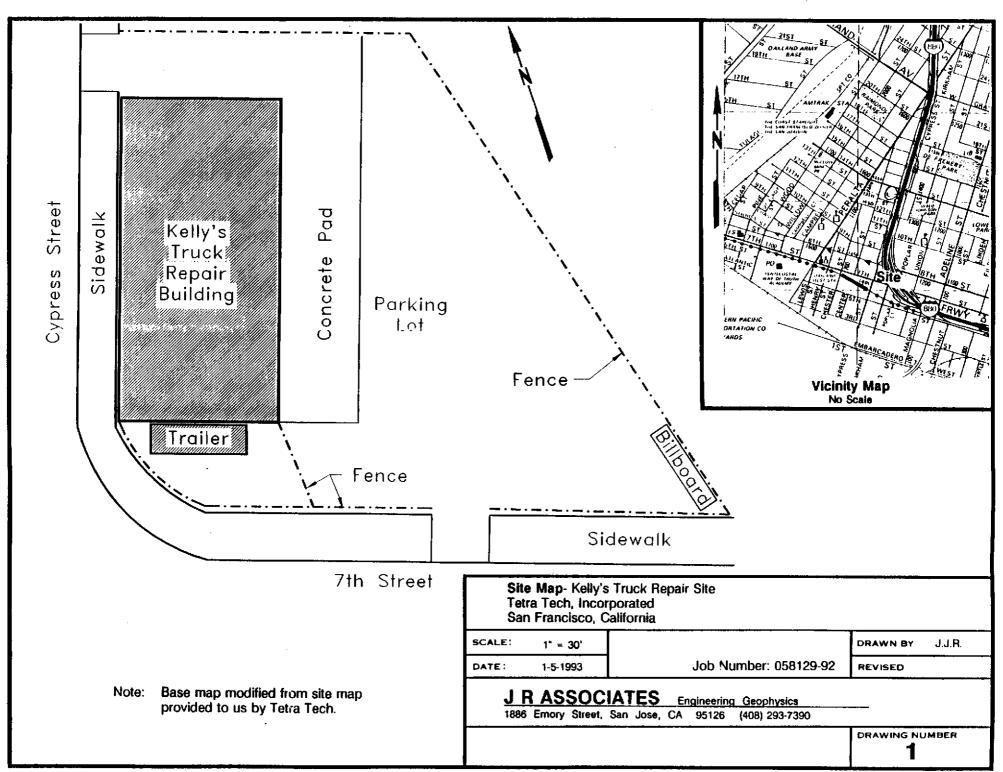
The radar's usefulness is limited by its depth of penetration. The depth of penetration can vary from a few inches to several feet. If a clear reflection is created by a buried object, the reflection can be used to help determine the size and depth of the object. If we see no reflections in an area, the results might be inconclusive. There could be no reflections because there are no buried objects or because the objects were buried deeper than the radar could penetrate. Also the radar cannot distinguish a buried tank from another similar sized object.

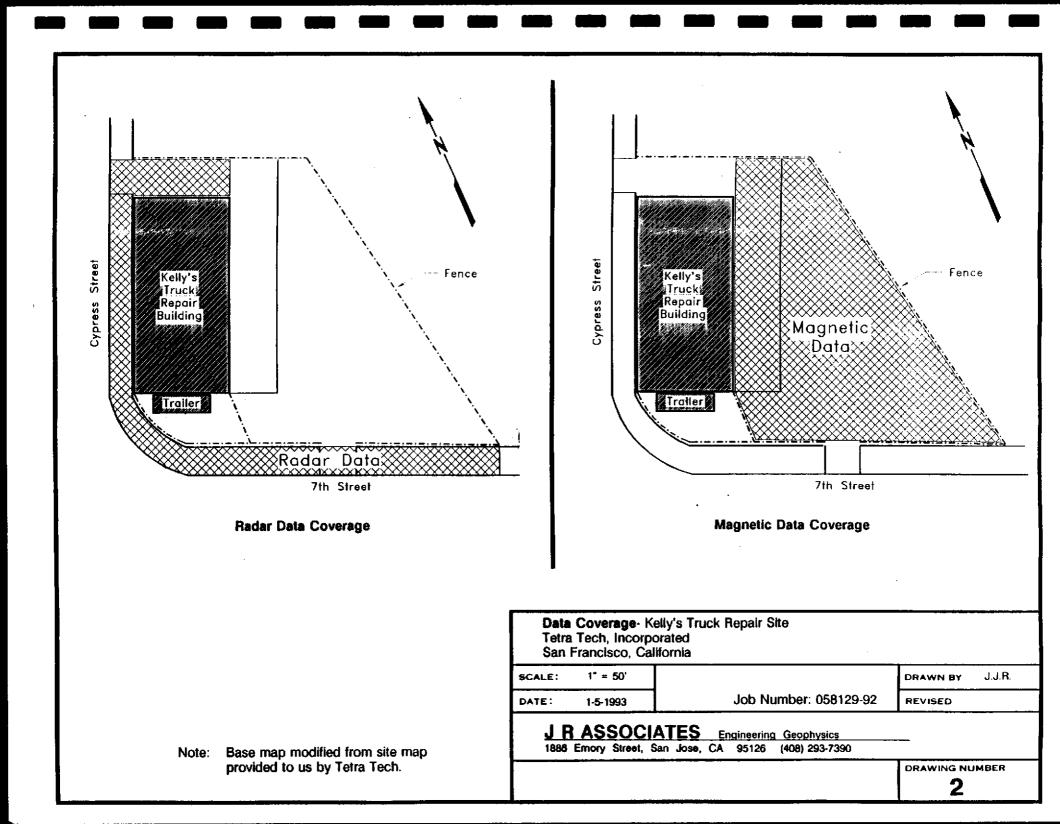
We can locate most, but not all, buried utilities in a given area. A buried utility must emit a signal, either a signal transmitted by us or a naturally occurring signal, to be detected by our equipment. The most common type of buried utilities not detected are nonmetal water and sewer lines. Other types of utilities that might not be detected are some communication lines and metal pipelines that are electrically insulated between joints.

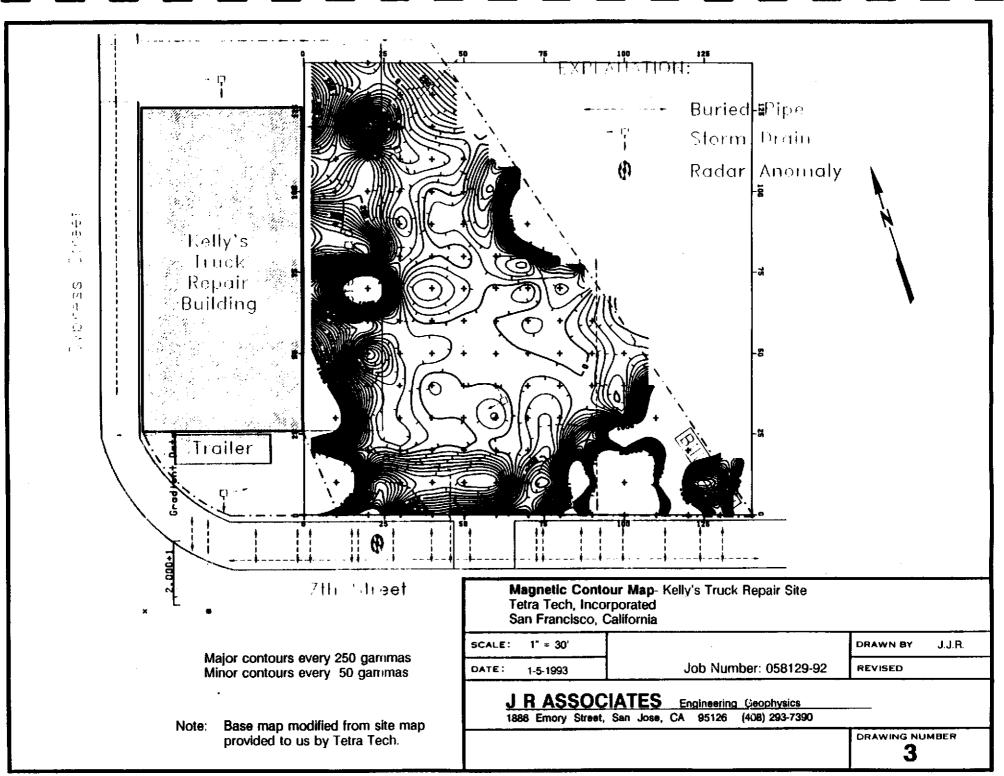
D. <u>Conclusions</u>

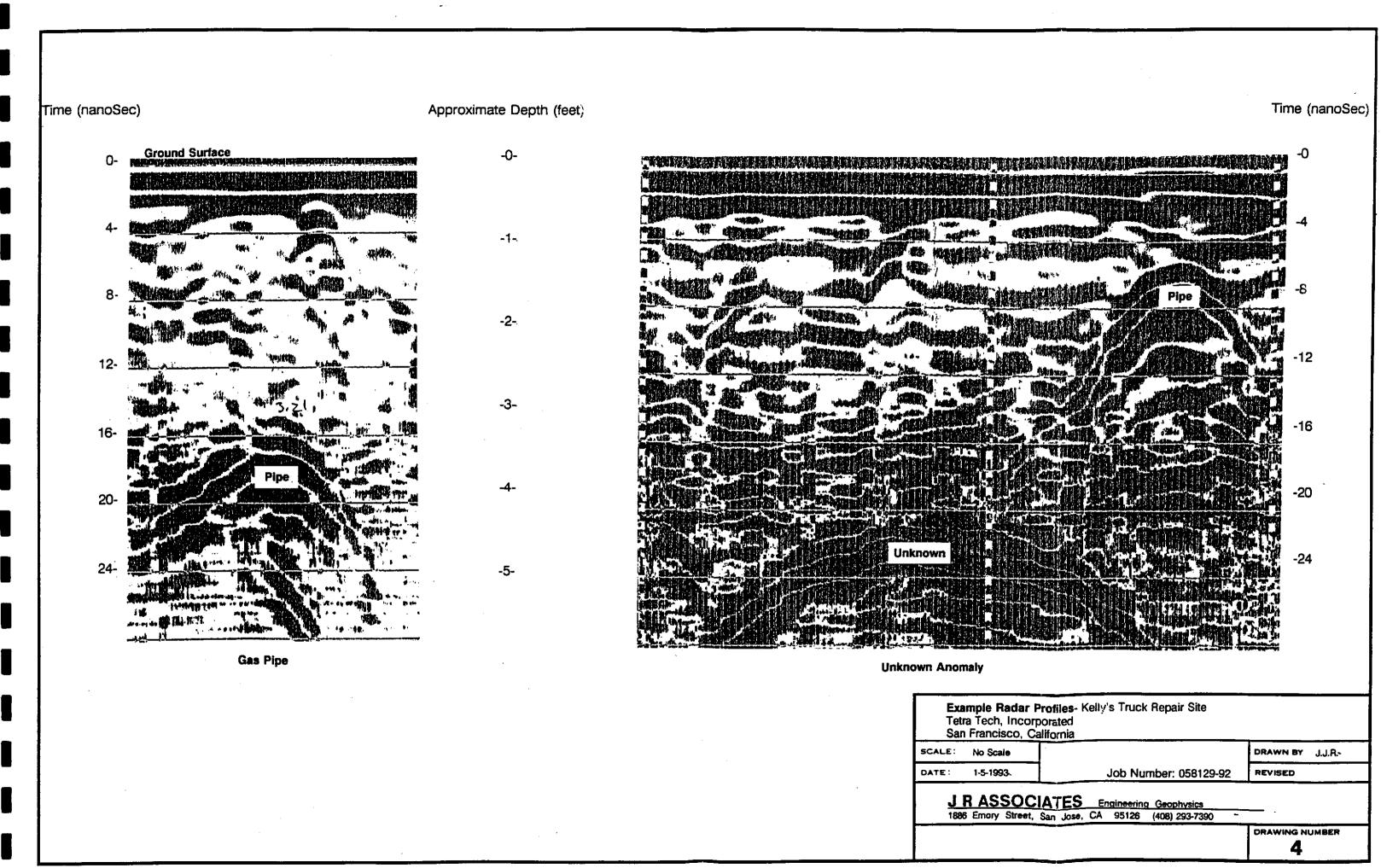
The geophysical investigation located many objects buried at the site. All of the objects, except one, appear to be buried pipes or metal reinforcement in the concrete pad. There was one buried object that created a radar anomaly that could not be identified (Drawings 4 and 5). The object is buried

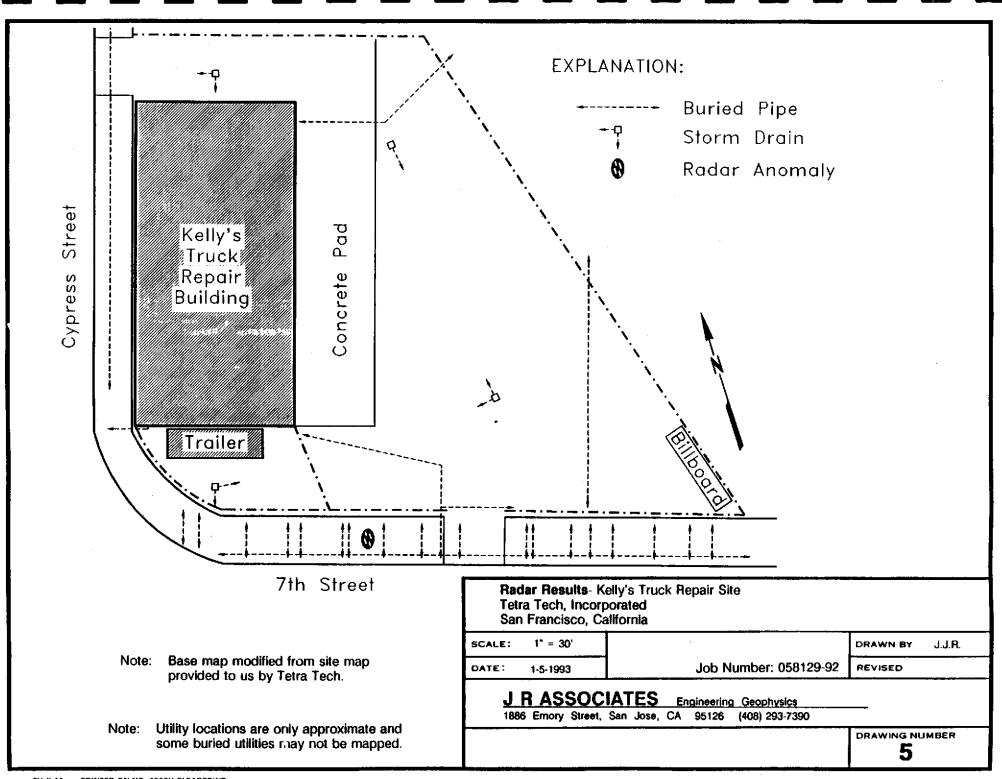
approximately 15 feet west of the alleged buried tank location. The buried object could be a small tank. However, the object would have to be excavated to identify it positively.

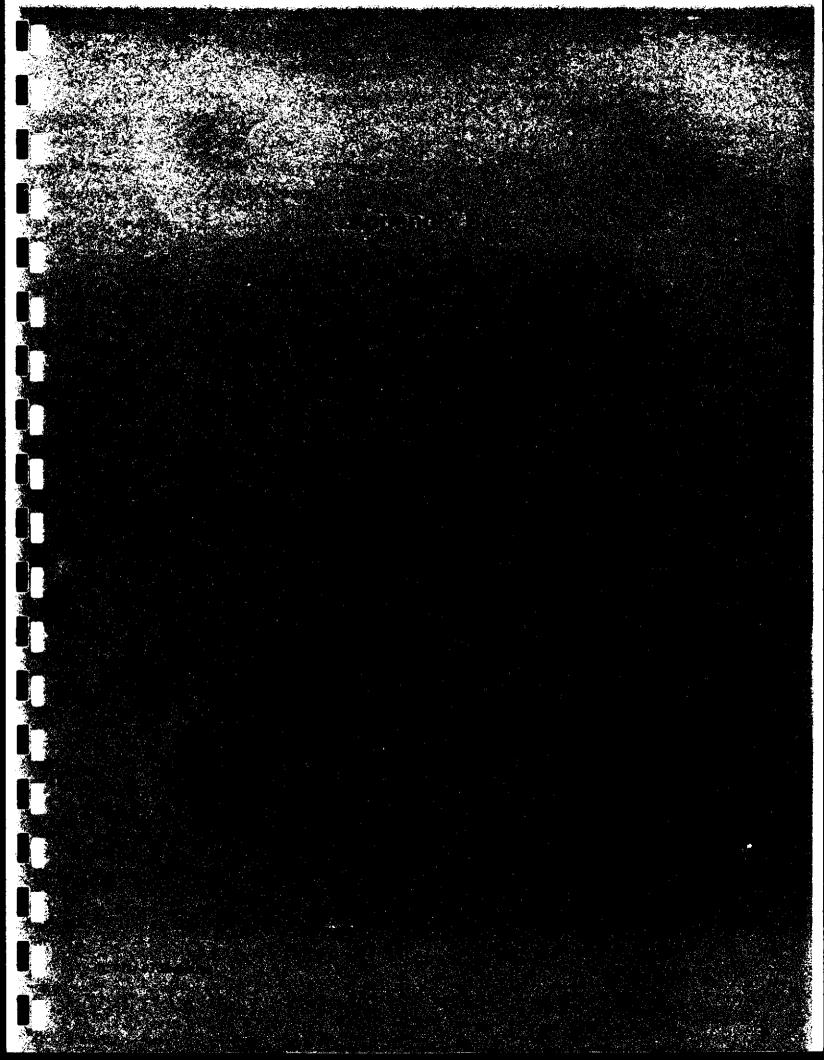












DEC 17 98 14:19



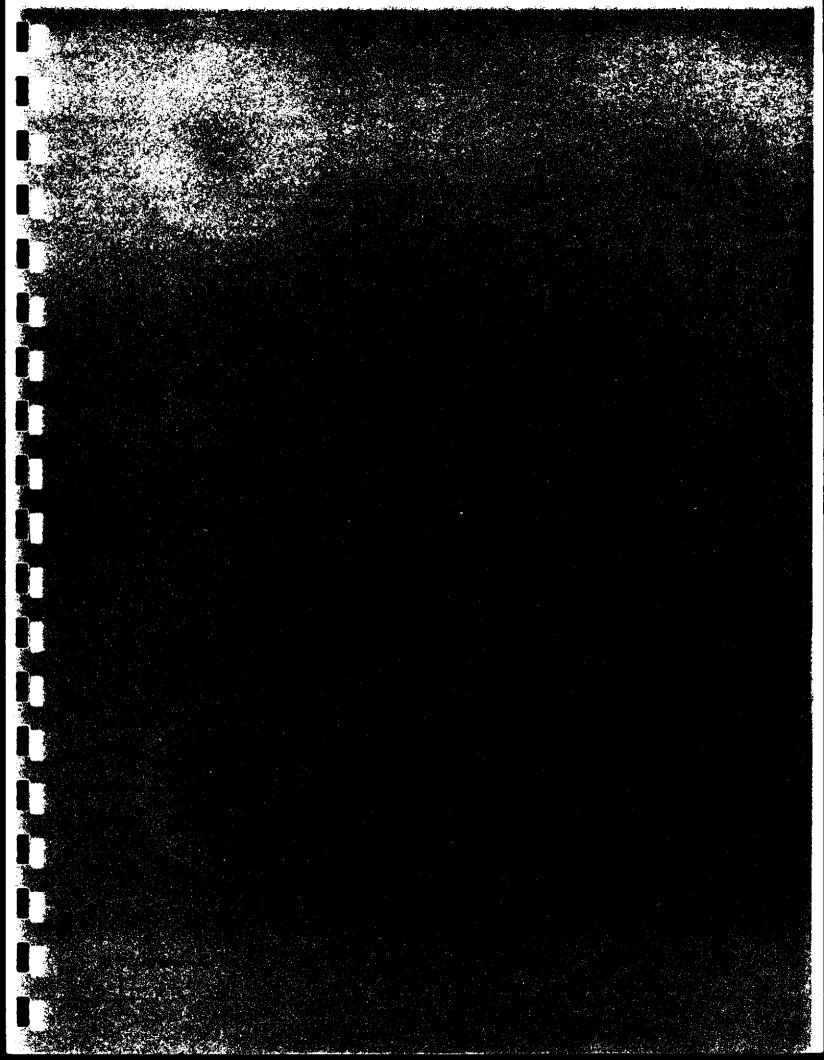
ZONE 7 WATER AGENCY

5037 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (810) 484-2600

FAX (510) 482-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT + Former the of Kelly's Touck Right	PERMIT NUMBER 92654
1870 7th St. Dakland Cit. Site is on the east corner of the full traction of Handela Parkway	LOCATION NUMBER
CLIENT CHIEF STO AND ITE ST.	A II TA II A A A A A A A A A A A A A A A
Name Cal. Days of Transportations. Chart Person: Address Ban 23660 Voice (510) 286-5646	
City Dakland, Cd Zp 94623-0660	Circled Permit Requirements Apply
APPLICANT Name Mike Wop & Go Tata Tech, Tac. Pax (au) 124-1221 Address (80 Kau) au St. Suite 250 Voice (45) 144-59/4 City San Broneis & CA Zip 94105 TYPE OF PROJECT Well Construction Geotechnical Investigation Cathodic Protoction General Water Supply Mell Use Contamination Well Destruction PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Municipal Intigation DRILLING METHOD: Mud Rotary Air Rotary Cable Other ORILLER'S LICENSE NO. Q 5 7 582676 WELL PROJECTS: 12/4	A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 effice five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is vaid if project not begun within 90 days of approval date. 8. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seel trickness is two inches of coment grout placed by tremis. 2. Minimum seal depth is 50 feet for municipal and industrial well or 20 feet for domestic and infigation wells unless a lesson depth is specially approved. Minimum seal dapth for monitoring wells is the maximum depth practicable or 20 feet. C. GEOTECHNICAL. Sachfill bore hale with compacted material. In areas of known or suspected contamination, tremise cament grout shall be used in place of compacted cuttings. D. CATHODIG. Fill hale above ancde zons with concrete placed by tremis.
Drill Hole Diameter In. Maximum Casing Diameter In. Depth ft. Surface Seal Depth ft. Number	E. WELL DESTRUCTION. See stached.
GEOTECHNICAL PROJECTS Number of Borings 4 Maximum Hole Diameter 7 in. Depth 16 ft.	
ESTIMATED STARTING DATE 14/3/73 Drik	Approved Wiman Hong Date 17 Dec 9
	Reg. Geologies 4445
APPLICANTS BIGNATURE MASS Roya Cotto Eur. 16, 1973	9 19€
DEC 1일 구입본 14:19	มวงเผลนอกรา ผมเจา ธู่ได้มีลักกรดีนี้∔ี คผีรี่€.อังอักไก้





Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310

REPORT LABORATORY

Tetra Tech, San Francisco - Project Number TC9321 Soil Reference:

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

EPA Method 418.1 for Total Recoverable Petroleum Test Methods:

Hydrocarbons (TRPH)

Date Received: December 30, 1992 December 31, 1992 Date Analyzed: January 1, 1993 Date Reported:

See attached documents for further information. Note:

> ANALYTICAL RESULTS All Results in ppm (mg/kg) Unless Otherwise Specified

Lab ID	Client ID	Depth	Component	Result D	etection
Number	Number_	(feet)	Name	(mg/kg)	Limit
12-08612 12-08613 12-08614 12-08615 12-08616 12-08617 12-08618 12-08619 12-08620 12-08621 12-08621 12-08623 12-08623	B3 B3 B3 B2 B2 B2 B4 B4 B4 B4 B1 B1	3 8 13 3 8 13 3 8 13 None Given 3 8	TRPH TRPH TRPH TRPH TRPH TRPH TRPH TRPH	ND 422 ND ND ND ND 23.2 ND ND 18.2 mg/L ND 6960 ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

ND = Not Detected

Services currently maintains Certificate Diversified Analytical Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/

Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310

LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: Modified EPA Method 8015 for TPH as Diesel

Date Received: December 30, 1992 Date Analyzed: December 31, 1992 Date Reported: January 1, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppm (mg/kg) Unless Otherwise Specified

Lab ID Number	Client ID Number	Depth (feet)	Component Name	Result (mg/kg)	Detection Limit
 -					
12-08612	В3	3	TPH-Diesel	ND	1.0
12-08613	В3	8	TPH-Diesel	1470	1.0
12-08614	B3	13	TPH-Diesel	10.3	1.0
12-08615	B2	3	TPH-Diesel	3.5	1.0
12-08616	B2	8	TPH-Diesel	59.0	1.0
12-08617	B2	13	TPH-Diesel	3.8	1.0
12-08618	B4	3	TPH-Diesel	6.9	1.0
12-08619	B4	8	TPH-Diesel	37.8	1.0
12-08620	B4	13	TPH-Diesel	12.8	1.0
12-08621	B4-W1	None Given	TPH-Diesel		mg/L 1.0
12-08621	B1	3	TPH-Diesel	1.6	1.0
		8	TPH-Diesel	7870	1.0
12-08623	B1		TPH-Diesel	32.3	1.0
12-08624	B1	13	Ibu-Dieser	22.3	1.0

ND = Not Detected

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman,

Laboratory Director/ Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310 L A B O R A T O R Y R E P O R T

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: Modified EPA Method 8015 for TPH as Gasoline

Date Received: December 30, 1992 Date Analyzed: December 31, 1992 Date Reported: January 1, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S
All Results in ppm (mg/kg) Unless Otherwise Specified

Lab ID	Client ID	Depth	Component	Result	Detection
Number	Number	(feet)	Name	(mg/kg)	Limit
12-08612 12-08613 12-08614 12-08615 12-08616 12-08617 12-08618 12-08619 12-08620 12-08621 12-08622 12-08623 12-08624	B3 B3 B3 B2 B2 B2 B4 B4 B4 B4 B1 B1	3 8 13 3 8 13 3 8 13 None Given 3 8	TPH-Gasoline	ND 562 3.7 1.2 23.0 1.5 1.3 14.5 4.3 8.8 mg/ ND 2900 10.4	1.0 1.0 1.0 1.0 1.0 1.0 1.0

ND = Not Detected

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman,

Laboratory Director/

Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310 L A B O R A T O R Y R E P O R T

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8020 for Volatile Aromatics (BTXE)

Date Received: December 30, 1992 Date Analyzed: December 31, 1992 Date Reported: January 1, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S
All Results in ppb (ug/kg) Unless Otherwise Specified

Constituent	12-08612 B3-3	12-08613 B3-8	12-08614 B3-13	12-08615 B2-3
			68	<10
Benzene	<10	<40		<10
Toluene	<10	1800	10	<10
Ethylbenzene	<10	2390	<10	
para+meta-Xylene	<10	5840	<10	<10
ortho-Xylene	<10	273	<10	<10
	12-08616	12-08617	12-08618	12-08619
Constituent	B2-8	B2-13	B4-3	B4-8
				20
Benzene	<10	<10	<10	20
Toluene	114	<10	14	52
Ethylbenzene	82	<10	<10	169
para+meta-Xylene	224	<10	22	<10
ortho-Xylene	14	<10	13	<10
	12-08620	12-08621	12-08622	12-08623
Constituent	B4-13	<u>B4-W1</u>	B1-3	B1-8
	612	5880 ug/L	<10	12300
Benzene	612	188 ug/L	<10	76100
Toluene	16		<10	24100
Ethylbenzene	31	520 ug/L	<10	100000
para+meta-Xylene	42	586 ug/L		47900
ortho-Xylene	<10	<10 ug/L	<10	4/300 .

Tetra Tech San Francisco Kelly's Truck Repair Report Page 2 of 2

Constituent	12-08624 B1-13	
Benzene	<10	
Toluene	<10	
Ethylbenzene	<10	
para+meta-Xylene	32	
ortho-Xylene	13	

< = less than; the number following this sign is the detection limit</pre> for that specific constituent.

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman,

Laboratory Director/ Analytical Chemist



Environmental Laboratory

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LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 6010 for Heavy Metals

EPA Method 3050 for Metals Digestion

Date Received: December 30, 1992 Date Analyzed: December 31, 1992 Date Reported: January 1, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S
All Results in ppm (mg/kg) Unless Otherwise Specified

Lab ID #	12-08612	12-08613	12-08614	12-08615
Constituent	B3-3	B3-8	B3-13	B2-3
Arsenic Cadmium Chromium (total) Lead Mercury Zinc	<1.0 <0.5 16.6 2.5 <1.0 20.4	<1.0 <0.5 21.3 <1.0 <1.0	<1.0 <0.5 17.2 <1.0 <1.0 8.0	<1.0 <0.5 16.0 9.2 <1.0 23.3
Lab ID #	12-08616	12-08617	12-08618	12-08619
Constituent	B2-8	B2-13	B4-3	
Arsenic Cadmium Chromium (total) Lead Mercury Zinc	<1.0 <0.5 24.5 <1.0 <1.0	<1.0 <0.5 32.2 <1.0 <1.0	1.3 1.6 18.1 43.7 <1.0 162	1.3 <0.5 41.2 <1.0 <1.0
Lab ID #	12-08620	12-08621	12-08622	12-08623
Constituent	B4-13	B4-W1	B1-3	B1-8
Arsenic Cadmium Chromium (total) Lead Mercury Zinc	<1.0 <0.5 31.4 <1.0 <1.0	<0.5 mg/L <0.1 mg/L 0.1 mg/L <0.5 mg/L <0.2 mg/L <0.1 mg/L	<0.5 15.4 <1.0 <1.0	<1.0 <0.5 21.6 <1.0 <1.0

Lab ID # Constituent	12-08624 B4-13	
Arsenic Cadmium Chromium (total) Lead Mercury Zinc	<1.0 <0.5 25.3 <1.0 <1.0	

< = less than; the number following this sign is the detection limit</pre> for that specific constituent.

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman,

Laboratory Director/ Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310

LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8240 for Volatile Compounds

Date Received: December 30, 1992 Date Analyzed: January 5 - 6, 1993 Date Reported: January 7, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID # Constituent	12-08612 B3-3	12-08613 B3-8	12-08614 B3-13	12-08615 B2-3
001100110110				
Chloromethane	<10	<100	<10	<10
Vinyl Chloride	<10	<100	<10	<10
Bromomethane	<10	<100	<10	<10
Chloroethane	<25	<250	<25	<25
Trichlorofluoromethane	< 5	< 50	< 5	< 5
1,1-Dichloroethene	< 5	< 50	< 5	< 5
Acetone	<50	<500	<50	<50
Carbon Disulfide	< 5	< 50	< 5	< 5
Methylene Chloride	<10	<100	<10	<10
trans-1,2-Dichloroethene	< 5	< 50	< 5	< 5
1,1-Dichloroethane	< 5	< 50	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 50	< 5	< 5
2-Butanone (MEK)	<25	<250	<25	<25
Chloroform	< 5	< 50	< 5	< 5
1,1,1-Trichloroethane	<10	<100	<10	<10
Carbon Tetrachloride	< 5	< 50	< 5	< 5
Benzene	< 5	< 50	12	< 5
1,2-Dichloroethane	< 5	< 50	< 5	< 5
Trichloroethene	< 5	< 50	< 5	< 5
1,2-Dichloropropane	< 5	< 50	< 5	< 5
Bromodichloromethane	< 5	< 50	< 5	< 5
2-Chloroethyl Vinyl Ether	< 5	< 50	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 50	< 5	< 5
2-Hexanone	<10	<100	<10	<10
Toluene	< 5	< 50	< 5	< 5
trans-1,3-Dichloropropene	< 5	< 50	< 5	< 5
1,1,2-Trichloroethane	< 5	< 50	< 5	< 5
Tetrachloroethene	< 5	< 50	< 5	< 5
4-Methyl-2-Pentanone (MIBK)	•	<250	<25	<25
Dibromochloromethane (HIBM)	< 5	< 50	< 5	< 5

dfb ID # Constituent	12-08612 B3-3	12-08613 B3-8	12-08614 B3-13	12-08615 B2-3
Chlorobenzene	< 5	< 50	< 5	< 5
Ethybenzene	< 5	496	< 5	< 5
Meta+Para-Xylene	<10	411	<10	<10
Ortho-Xylene	<10	<100	<10	<10
Styrene	< 5	< 50	< 5	< 5
Bromoform	<10	<100	<10	<10
1,1,2,2-Tetrachloroethane	< 5	< 50	< 5	< 5
1,3-Dichlorobenzene	< 5	< 50	< 5	< 5
1,4-Dichlorobenzene	< 5	< 50	< 5	< 5
1,2-Dichlorobenzene	< 5	< 50	< 5	< 5

< = less than; the number following this sign is the detection limit
for that specific constituent.</pre>

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Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/ Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310 L A B O R A T O R Y R E P O R T

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8240 for Volatile Compounds

Date Received: December 30, 1992
Date Analyzed: January 5 - 6, 1993
Date Reported: January 7, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID # Constituent	12-08616 B2-8	12-08617 B2-13	12-08618 B4-3	12-08619 B4-8
Chloromethane	<10	<10	<10	<10
Vinyl Chloride	<10	<10	<10	<10
Bromomethane	<10	<10	<10	<10
Chloroethane	<25	<25	<25	<25
Trichlorofluoromethane	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 5	< _5	< 5
Acetone	<50	<50	<50	<50
Carbon Disulfide	< 5	< 5	< 5	< 5
Methylene Chloride	<10	<10	<10	<10
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5
2-Butanone (MEK)	<25	<25	<25	<25
Chloroform	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	<10	<10	<10	<10
Carbon Tetrachloride	< 5	< 5	< 5	< 5
Benzene	< 5	< 5	< 5	< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 5
2-Chloroethyl Vinyl Ether	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5
2-Hexanone	<10	<10	<10	<10
Toluene	< 5	< 5	7	< 5
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5
Tetrachloroethene	< 5	< 5	< 5	< 5
4-Methyl-2-Pentanone (MIBK)	<25	<25	<25	<25
Dibromochloromethane	< 5	< 5	< 5	< 5

Lab ID # Constituent	12-08616 B2-8	12-08617 B2-13	12-08618 B4-3	12-08619 B4-8
Chlorobenzene	< 5	 < 5	< 5	< 5
Ethybenzene	11	< 5	< 5	` <u>9</u>
Meta+Para-Xylene	18	<10	<10	<10
Ortho-Xylene	<10	<10	<10	<10
Styrene	< 5	< 5	< 5	< 5
Bromoform	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	< 5	< 5	< 5	. < 5
1,4-Dichlorobenzene	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	< 5	< 5	< 5	< 5

< = less than; the number following this sign is the detection limit
for that specific constituent.</pre>

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Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/ Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310

LABORATORY REPORT

Reference:

Tetra Tech, San Francisco - Project Number TC9321 Soil Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8240 for Volatile Compounds

Date Received: December 30, 1992
Date Analyzed: January 5 - 6, 1993
Date Reported: January 7, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID #	12-08620 B4-13	12-08621 B4-W1	12-08622 B1-3	12-08623 B1-8
Constituent	D4-12	D4 NI		<u> </u>
Chloromethane	<10	<100ug/L	<10	<1000
Vinyl Chloride	<10	<100ug/L	<10	<1000
Bromomethane	<10	<100ug/L	<10	<1000
Chloroethane	<25	<250ug/L	<25	<2500
Trichlorofluoromethane	< 5	< 50ug/L	< 5	< 500
1,1-Dichloroethene	< 5	< 50ug/L	< 5	< 500
Acetone	<50	<500ug/L	<50	<5000
Carbon Disulfide	< 5	< 50ug/L	< 5	< 500
Methylene Chloride	<10	<100ug/L	<10	<1000
trans-1,2-Dichloroethene	< 5	< 50ug/L	< 5	< 500
1,1-Dichloroethane	< 5	< 50ug/L	< 5	< 500
cis-1,2-Dichloroethene	< 5	< 50ug/L	< 5	< 500
2-Butanone (MEK)	<25	<250ug/L	<25	<2500
Chloroform	< 5	< 50ug/L	< 5	< 500
1,1,1-Trichloroethane	<10	<100ug/L	<10	<1000
Carbon Tetrachloride	< 5	< 50ug/L	< 5	< 500
Benzene	46	5500ug/L	< 5	7310
1,2-Dichloroethane	< 5	< 50ug/L	< 5	< 500
Trichloroethene	< 5	< 50ug/L	< 5	< 500
1,2-Dichloropropane	< 5	< 50ug/L	< 5	< 500
Bromodichloromethane	·< 5	< 50ug/L	< 5	< 500
2-Chloroethyl Vinyl Ether	< 5	< 50ug/L	< 5	< 500
cis-1,3-Dichloropropene	< 5	< 50ug/L	< 5	< 500
2-Hexanone	<10	<100ug/L	<10	<1000
Toluene	<10	212ug/L	<10	90800
trans-1,3-Dichloropropene	< 5	< 50ug/L	< 5	< 500
1,1,2-Trichloroethane	< 5	< 50ug/L	, < 5	< 500
Tetrachloroethene	< 5	< 50ug/L	< 5	< 500
4-Methyl-2-Pentanone (MIBK)	<25	<250ug/L	<25	<2500
Dibromochloromethane	< 5	< 50ug/L	< 5	< 500

Tetra Tech San Francisco Project TC-9321 Soils Report Page 2 of 2

Lab ID # Constituent	12-08620 B4-13	12-08621 B4-W1	12-08622 B1-3	12-08623 B1-8
Chlorobenzene	< 5	< 50ug/L	< 5	< 500
Ethybenzene	< 5	660ug/L	< 5	50900
Meta+Para-Xylene	<10	612ug/L	<10	201000
Ortho-Xylene	<10	<100ug/L	<10	78900
Styrene	< 5	< 50ug/L	< 5	< 500
Bromoform	<10	<100ug/L	<10	<1000
1,1,2,2-Tetrachloroethane	< 5	< 50ug/L	< 5	< 500
1,3-Dichlorobenzene	< 5	< 50ug/L	< 5	< 500
1,4-Dichlorobenzene	< 5	< 50ug/L	< 5	< 500
1,2-Dichlorobenzene	< 5	< 50ug/L	< 5	< 500

< = less than; the number following this sign is the detection limit for that specific constituent.

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/ Analytical Chemist



Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310 L A B O R A T O R Y R E P O R T

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8240 for Volatile Compounds

Date Received: December 30, 1992
Date Analyzed: January 5 - 6, 1993
Date Reported: January 7, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID # Constituent	12-08624 B1-13
Conscicuenc	D1 13
Chloromethane	<10
Vinyl Chloride	<10
Bromomethane	<10
Chloroethane	<25
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
Acetone	<50
Carbon Disulfide	< 5
	<10
Methylene Chloride	< 5
trans-1,2-Dichloroethene 1,1-Dichloroethane	< 5
cis-1,2-Dichloroethene	< 5
2-Butanone (MEK)	<25
Chloroform	< 5
1,1,1-Trichloroethane	<10
Carbon Tetrachloride	< 5
Benzene	< 5
1,2-Dichloroethane	< 5
Trichloroethene	< 5
1,2-Dichloropropane	< 5
Bromodichloromethane	< 5
2-Chloroethyl Vinyl Ether	< 5
cis-1,3-Dichloropropene	< 5
2-Hexanone	<10
Toluene	<10
trans-1,3-Dichloropropene	< 5
1,1,2-Trichloroethane	< 5
Tetrachloroethene	< 5
4-Methyl-2-Pentanone (MIBK)	<25
Dibromochloromethane	< 5

Lab ID # Constituent	12-08624 B1-13
Chlorobenzene Ethybenzene Meta+Para-Xylene Ortho-Xylene Styrene Bromoform 1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene	< 5 < 5 < 10 < 10 < 10 < 5 < 10 < 5 < 5 < 5 < 5
1,4-Dichlorobenzene 1,2-Dichlorobenzene	< 5 < 5

< = less than; the number following this sign is the detection limit</pre> for that specific constituent.

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/ Analytical Chemist



Environmental Laboratory

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LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8270 for Semivolatile Compounds

Date Received: December 30, 1992
Date Analyzed: January 7 - 8, 1993
Date Reported: January 11, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID #	12-08612	12-08613	12-08614	12-08615
Constituent	B3-3	B3-8	B3-13	<u>B2-3</u>
N-Nitrosodimethylamine	<333	<8325	<333	<333
Phenol	<333	<8325	<333	<333
Bis(2-Chloroethyl)Ether	<333	<8325	<333	<333
2-Chlorophenol	<333	<8325	<333	<333
1,3-Dichlorobenzene	<400	<10000	<400	<400
1,4-Dichlorobenzene	<400	<10000	<400	<400
Benzyl Alcohol	<666	<16650	<666	<666
1,2-Dichlorobenzene	<400	<10000	<400	<400
2-Methylphenol	<333	<8325	<333	<333
Bis(2-Chloroisopropyl)Ether	<333	<8325	<333	<333
N-Nitrosodi-N-Propylamine	<333	<8325	<333	<333
4-Methylphenol	<333	<8325	<333	<333
Hexachloroethane	<333	<8325	<333	<333
Nitrobenzene	<333	<8325	<333	<333
Isophorone	<333	<8325	<333	<333
2-Nitrophenol	<333	<8325	<333	<333
2,4-Dimethylphenol	<333	<8325	<333	<333
Bis(2-Chloroethoxy)Methane	<333	<8325	<333	<333
2,4-Dichlorophenol	<333	<8325	<333	<333
Benzoic Acid	<1665	<41625	<1665	<1665
1,2,4-Trichlorobenzene	<333	<8325	<333	<333
Naphthalene	<333	<8325	<333	<333
4-Chloroanaline	<666	<16650	<666	<666
Hexachlorobutadiene	<333	<8325	<333	<333
4-Chloro-3-Methylphenol	<666	<16650	<666	<666
2-Methylnaphthalene	<333	<8325	<333	<333
Hexachlorocyclopentadiene	<666	<16650	<666	<666
2,4,6-Trichlorophenol	<333	<8325	<333	<333
2,4,5-Trichlorophenol	<333	<8325	<333	<333
2-Chloronaphthalene	<333	·<8325	<333	<333
2-Nitroanaline	<1665	<41625	<1665	<1665
Dimethyl Phthalate	<333	<8325	<333	<333
Acenaphthylene	<333	<8325	<333	<333
2,6-Dinitrotoluene	<333	<8325	<333	<333

Lab ID #	12-08612	12-08613	12-08614	12-08615
Constituent	B3-3	B3-8	B3-13	B2-3
3-Nitroanaline	<1665	<41625	<1665	<1665
Acenaphthene	<333	<8325	<333	<333
2,4-Dinitrophenol	<1665	<41625	<1665	<1665
Dibenzofuran	<333	<8325	<333	<333
4-Nitrophenol	<1665	<41625	<1665	<1665
2,4-Dinitrotoluene	<333	<8325	<333	<333
Fluorene	<333	<8325	<333	<333
Diethyl Phthalate	<333	<8325	<333	<333
4-Chlorophenyl-Phenyl Ether	<333	<8325	<333	<333
4-Nitroanaline	<1665	<41625	<1665	<1665
4,6-Dinitro-2-Methylphenol	<1665	<41625	<1665	<1665
N-Nitrosodiphenylamine	<333	<8325	<333	<333
4-Bromophenyl Phenyl Ether	<333	<8325	<333	<333
Hexachlorobenzene	<333	<8325	<333	<333
Pentachlorophenol	<1665	<41625	<1665	<1665
Phenanthrene	<333	<8325	<333	<333
Anthracene	<333	<8325	<333	<333
Di-N-Butyl Phthalate	<333	<8325	<333	<333
Fluoranthene	<333	<8325	<333	<333
Benzidene	<1665	<41625	<1665	<1665
Pyrene	<333	10526	<333	<333
Butyl Benzyl Phthalate	<333	<8325	<333	<333
Benzo(A) Anthracene	<333	13062	<333	<333
3,3'-Dichlorobenzidine	<666	<16650	<666	<666
Chrysene	<333	17962	<333	<333
Bis(2-Ethylhexyl)Phthalate	<333	<8325	<333	<333
Di-N-Octyl Phthalate	<333	<8325	<333	<333
Benzo(B) Fluoranthene	<333	26697	<333	<333
Benzo(K) Fluoranthene	<333	11961	<333	<333
Benzo(A) Pyrene	<333	22106	<333	<333
Indeno(1,2,3-CD) Pyrene	<333	27566	<333	<333
Dibenzo(A, H) Anthracene	<333	8338	<333	<333
Benzo(G,H,I)Perylene	<333	31774	<333	<333

< = less than; the number following this sign is the detection limit
for that specific constituent.</pre>

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/ Analytical Chemist



DIVERSIFIED ANALYTICAL SERVICES, INC.

Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310

LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8270 for Semivolatile Compounds

Date Received: December 30, 1992
Date Analyzed: January 7 - 8, 1993
Date Reported: January 11, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID #	12-08616	12-08617 B2-13	12-08618 B4-3	12-08619 B4-8
Constituent	B2-8	B2-13	B4-3	
N-Nitrosodimethylamine	<333	<333	<333	<333
Phenol	<333	<333	<333	<333
Bis(2-Chloroethyl)Ether	<333	<333	<333	<333
2-Chlorophenol	<333	<333	<333	<333
1,3-Dichlorobenzene	<400	<400	<400	<400
1,4-Dichlorobenzene	<400	<400	<400	<400
Benzyl Alcohol	<666	<666	<666	<666
1,2-Dichlorobenzene	<400	<400	<400	<400
2-Methylphenol	<333	<333	<333	<333
Bis(2-Chloroisopropyl) Ether		<333	<333	<333
N-Nitrosodi-N-Propylamine	<333	<333	<333	<333
4-Methylphenol	<333	<333	<333	<333
Hexachloroethane	<333	<333	<333	<333
Nitrobenzene	<333	<333	<333	<333
Isophorone	<333	<333	<333	<333
2-Nitrophenol	<333	<333	<333	<333
2,4-Dimethylphenol	<333	<333	<333	<333
Bis(2-Chloroethoxy) Methane	<333	<333	<333	<333
2,4-Dichlorophenol	<333	<333	<333	<333
Benzoic Acid	<1665	<1665	<1665	<1665
1,2,4-Trichlorobenzene	<333	<333	<333	<333
Naphthalene	<333	<333	<333	<333
4-Chloroanaline	<666	<666	<666	<666
Hexachlorobutadiene	<333	<333	<333	<333
4-Chloro-3-Methylphenol	<666	<666	<666	<666
2-Methylnaphthalene	<333	<333	<333	<333
Hexachlorocyclopentadiene	<666	<666	<666	<666
2,4,6-Trichlorophenol	<333	<333	<333	<333
2,4,5-Trichlorophenol	<333	<333	<333	<333
2-Chloronaphthalene	<333	<333	<333	<333
2-Nitroanaline	<1665	<1665	<1665	<1665
Dimethyl Phthalate	<333	<333	<333	<333
Acenaphthylene	<333	<333	<333	<333
2,6-Dinitrotoluene	<333	<333	<333	<333

Results continued on next page.

Lab ID #	12-08616	12-08617	12-08618	12-08619
Constituent	B2-8	B2-13	B4-3	B4-8
3-Nitroanaline Acenaphthene 2,4-Dinitrophenol Dibenzofuran	<1665 <333 <1665 <333 <1665	<1665 <333 <1665 <333 <1665	<1665 <333 <1665 <333 <1665	<1665 <333 <1665 <333 <1665
4-Nitrophenol 2,4-Dinitrotoluene Fluorene Diethyl Phthalate 4-Chlorophenyl-Phenyl Ether	<333	<333	<333	<333
	<333	<333	<333	<333
	<333	<333	<333	<333
	<333	<333	<333	<333
4-Nitroanaline	<1665	<1665	<1665	<1665
4,6-Dinitro-2-Methylphenol	<1665	<1665	<1665	<1665
N-Nitrosodiphenylamine	<333	<333	<333	<333
4-Bromophenyl Phenyl Ether	<333	<333	<333	<333
Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene	<333	<333	<333	<333
	<1665	<1665	<1665	<1665
	<333	<333	<333	<333
	<333	<333	<333	<333
Di-N-Butyl Phthalate Fluoranthene Benzidene Pyrene	<333 <333 <1665 <333	<333 <333 <1665 <333 <333	<333 <333 <1665 <333 <333	<333 <333 <1665 <333 <333
Butyl Benzyl Phthalate Benzo(A)Anthracene 3,3'-Dichlorobenzidine Chrysene Bis(2-Ethylhexyl)Phthalate	<333 <333 <666 <333 <333	<333 <666 <333 <333	<333 <666 <333 <333	<333 <666 <333 <333
Di-N-Octyl Phthalate	<333	<333	<333	<333
Benzo(B)Fluoranthene	<333	<333	<333	<333
Benzo(K)Fluoranthene	<333	<333	<333	<333
Benzo(A)Pyrene	<333	<333	<333	<333
Indeno(1,2,3-CD)Pyrene	<333	<333	<333	<333
Dibenzo(A,H)Anthracene	<333	<333	<333	<333
Benzo(G,H,I)Perylene	<333	<333	<333	<333

< = less than; the number following this sign is the detection limit
for that specific constituent.</pre>

Diversified Analytical Services currently maintains Certificate Number 1201 under the California State Department of Health Services Environmental Laboratory Accreditation Program.

Respectfully Submitted,

Shawn A. Coleman, Laboratory Director/ Analytical Chemist



DIVERSIFIED ANALYTICAL SERVICES, INC.

Environmental Laboratory

3732 W. Century Boulevard, Building 1, Unit 3, Inglewood, CA 90303 • (310) 671-5346 • Fax: (310) 671-7216 • (800) 862-9310

LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8270 for Semivolatile Compounds

Date Received: December 30, 1992
Date Analyzed: January 7 - 8, 1993
Date Reported: January 11, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID # Constituent	12-08620 B4-13	12-08621 B4-W1	12-08622 B1-3	12-08623 B1-8
N-Nitrosodimethylamine	<333	<100ug/L	<333	<1665
Phenol	<333	<100ug/L	<333	<1665
Bis(2-Chloroethyl)Ether	<333	<100ug/L	<333	<1665
2-Chlorophenol	<333	<100ug/L	<333	<1665
1,3-Dichlorobenzene	<400	<100ug/L	<400	<2000
1,4-Dichlorobenzene	<400	<100ug/L	<400	<2000
Benzyl Alcohol	<666	<150ug/L	<666	<3330
1,2-Dichlorobenzene	<400	<100ug/L	<400	<2000
2-Methylphenol	<333	<100ug/L	<333	<1665
Bis(2-Chloroisopropy1)Ether	<333	<100ug/L	<333	<1665
N-Nitrosodi-N-Propylamine	<333	<100ug/L	<333	<1665
4-Methylphenol	<333	<100ug/L	<333	<1665
Hexachloroethane	<333	<100ug/L	<333	<1665
Nitrobenzene	<333	<100ug/L	<333	<1665
Isophorone	<333	<100ug/L	<333	<1665
2-Nitrophenol	<333	<100ug/L	<333	<1665
2,4-Dimethylphenol	<333	<100ug/L	<333	<1665
Bis(2-Chloroethoxy)Methane	<333	<100ug/L	<333	<1665
2,4-Dichlorophenol	<333	<100ug/L	<333	<1665
Benzoic Acid	<1665	<100ug/L	<1665	<8325
1,2,4-Trichlorobenzene	<333	<100ug/L	<333	<1665
Naphthalene	<333	306ug/L	<333	34229
4-Chloroanaline	<666	<100ug/L	<666	<3330
Hexachlorobutadiene	<333	<100ug/L	<333	<1665
4-Chloro-3-Methylphenol	<666	<100ug/L	<666	<3330
2-Methylnaphthalene	<333	<100ug/L	<333	34995
Hexachlorocyclopentadiene	<666	<200ug/L	<666	<3330
2,4,6-Trichlorophenol	<333	<100ug/L	<333	<1665
2,4,5-Trichlorophenol	<333	<100ug/L	<333	<1665
2-Chloronaphthalene	<333	<100ug/L	<333	<1665
2-Nitroanaline	<1665	<100ug/L	<1665	<8325
Dimethyl Phthalate	<333	<100ug/L	<333	<1665
Acenaphthylene	<333	<100ug/L	<333	<1665
2,6-Dinitrotoluene	<333	<100ug/L	<333	<1665

Results continued on next page.

Lab ID #	12-08620	12-08621	12-08622	12-08623
Constituent	B4-13	B4-W1	B1-3	B1-8
Conscience	D4 13			
3-Nitroanaline	<1665	<100ug/L	<1665	<8325
Acenaphthene	<333	<100ug/L	<333	<1665
2,4-Dinitrophenol	<1665	<150ug/L	<1665	<8325
Dibenzofuran	<333	<100ug/L	<333	<1665
4-Nitrophenol	<1665	<100ug/L	<1665	<8325
2,4-Dinitrotoluene	<333	<100ug/L	<333	<1665
Fluorene	<333	<100ug/L	<333	<1665
Diethyl Phthalate	<333	<100ug/L	<333	<1665
4-Chlorophenyl-Phenyl Ether	<333	<100ug/L	<333	<1665
4-Nitroanaline	<1665	<100ug/L	<1665	<8325
4,6-Dinitro-2-Methylphenol	<1665	<100ug/L	<1665	<8325
N-Nitrosodiphenylamine	<333	<100ug/L	<333	<1665
4-Bromophenyl Phenyl Ether	<333	<100ug/L	<333	<1665
Hexachlorobenzene	<333	<100ug/L	<333	<1665
Pentachlorophenol	<1665	<200ug/L	<1665	<8325
Phenanthrene	<333	<100ug/L	<333	<1665
Anthracene	<333	<100ug/L	<333	<1665
Di-N-Butyl Phthalate	<333	<100ug/L	<333	<1665
Fluoranthene	<333	<100ug/L	<333	<1665
Benzidene	<1665	<100ug/L	<1665	<8325
Pyrene	<333	<100ug/L	<333	<1665
Butyl Benzyl Phthalate	<333	<100ug/L	<333	<1665
Benzo(A)Anthracene	<333	<100ug/L	<333	<1665
3,3'-Dichlorobenzidine	<666	<100ug/L	<666	<3330
Chrysene	<333	<100ug/L	<333	<1665
Bis(2-Ethylhexyl)Phthalate	<333	<100ug/L	<333	<1665
Di-N-Octyl Phthalate	<333	<100ug/L	<333	<1665
Benzo(B)Fluoranthene	<333	<100ug/L	<333	<1665
Benzo(K)Fluoranthene	<333	<100ug/L	<333	<1665
Benzo(A) Pyrene	<333	<100ug/L	<333	<1665
Indeno(1,2,3-CD)Pyrene	<333	<100ug/L	<333	<1665
Dibenzo(A,H)Anthracene	<333	<100ug/L	<333	<1665
Benzo(G,H,I)Perylene	<333	<100ug/L	<333	<1665

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LABORATORY REPORT

Reference: Tetra Tech, San Francisco - Project Number TC9321 Soil

Samples Collected From Kelly's Truck Repair in Oakland

on 12/29/92

Test Methods: EPA Method 8270 for Semivolatile Compounds

Date Received: December 30, 1992 Date Analyzed: January 7 - 8, 1993 Date Reported: January 11, 1993

Note: See attached documents for further information.

A N A L Y T I C A L R E S U L T S All Results in ppb (ug/kg) Unless Otherwise Specified

Lab ID # Constituent	12-08624 B1-13
N-Nitrosodimethylamine Phenol Bis(2-Chloroethyl)Ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl)Ether N-Nitrosodi-N-Propylamine 4-Methylphenol Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-Chloroethoxy)Methane 2,4-Dichlorophenol Benzoic Acid 1,2,4-Trichlorobenzene Naphthalene 4-Chloroanaline Hexachlorobutadiene 4-Chloro-3-Methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene	<pre>81-13 <333 <333 <333 <400 <400 <400 <666 <400 <333 <333 <333 <333 <333 <333 <333</pre>
Hexachlorocyclopentadiene 2,4,6-Trichlorophenol	
2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroanaline Dimethyl Phthalate Acenaphthylene 2,6-Dinitrotoluene	<333 <333 <1665 <333 <333 <333
S'O-Dilliciocordelle	-

Results continued on next page.

Lab ID # Constituent	12-08624 B1-13
3-Nitroanaline	<1665
Acenaphthene	<333
2,4-Dinitrophenol	<1665
Dibenzofuran	<333
4-Nitrophenol	<1665
2,4-Dinitrotoluene	<333
Fluorene	<333
Diethyl Phthalate	<333
4-Chlorophenyl-Phenyl Ether	<333
4-Nitroanaline	<1665
4,6-Dinitro-2-Methylphenol	<1665
N-Nitrosodiphenylamine	<333
4-Bromophenyl Phenyl Ether	<333
Hexachlorobenzene	<333
Pentachlorophenol	<1665
Phenanthrene	<333
Anthracene	<333
Di-N-Butyl Phthalate	<333
Fluoranthene	<333
Benzidene	<1665
Pyrene	<333
Butyl Benzyl Phthalate	<333
Benzo(A)Anthracene	<333
3,3'-Dichlorobenzidine	<666
Chrysene	<333
Bis(2-Ethylhexyl)Phthalate	<333
Di-N-Octyl Phthalate	<333
Benzo(B)Fluoranthene	<333
Benzo(K)Fluoranthene	<333
Benzo(A)Pyrene	<333
Indeno(1,2,3-CD)Pyrene	<333
Dibenzo(A,H)Anthracene	<333
Benzo(G,H,I)Perylene	<333

< = less than; the number following this sign is the detection limit
for that specific constituent.</pre>

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Respectfully Submitted,

Shawn A. Coleman,

Laboratory Director/ Analytical Chemist To: Diversified Analytical Service 3732 W. Combing Blood, Mints 3 Inglewood, Cd. 70393

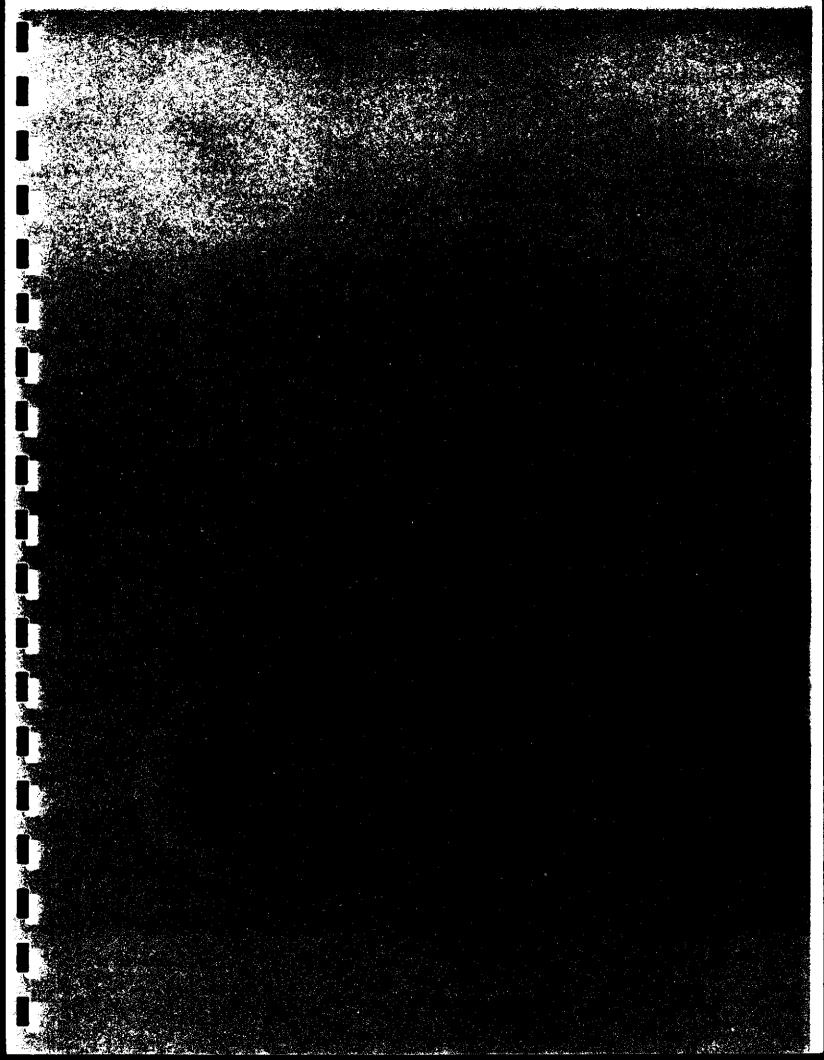
TETRA TECH

7-16 (310) 671-5346 Steauer Coleman

PAGE | OF 1 CHAIN OF CUSTODY RECORD PROJECT MANAGER: PROJ. NO.: ANALYSES REQUIRED CLIENT: **TETRA TECH** CONTAINERS SAN FRANCISCO | Mik. Wopat TC-1321 PROJECT NAME / LOCATION: Kelly's Truck Regain, Bakland, CA Ö KEVIN MC NAMARA/20 - MI REMARKS ģ DATE TIME LANTRIY SAMPLE SAMPLE LOCATION 4814 All sumples not ovaly sed ١ 12/24 0930 BURIOG 3 FOR TPH-B, TPH-D 33 - B 0755 BTEX, TRPH, Ublatile 33-13 020 organies senie-volatile BURING 2 B2-3 1055 organico and six B2-8 11.10 metale: Xs, Cd, Ct, 1125 132-13 アーろ BURLUL 330 134-8 1340 48 hor two wound Time BA-13 1345 hit expecially amlife 1430 NATER 134 ール the 8270's, because お祀八七二 5014 131-3 of Elu & day belding 1540 B1-8 1555 13 1-13 NOTE: FILTER GROWN WATER BEFORE METALS AVALYSIS. RECEIVED BY: (SIGNATURE) DATE/TIME RELINQUISHED BY: (SIGNATURE) RECEIVED BY: ISIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE/TIME 94 BUG REMARKS Review 8270 Data as it comes RECEIVED FOR LABORATORY BY: DATE/TIME RELINQUISHED BY: (SIGNATURE) DATE/TIME out. If any semi-vol, exports is =10x its STLC limit, do the WET presenting; if >20x its TCLP limit, do TCLP extraction.

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO COORDINATOR FIELD FILES

All other data will be reviewed by Tetra Tech.



FIELD LOG OF BORING

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FIELD LOG OF BORING

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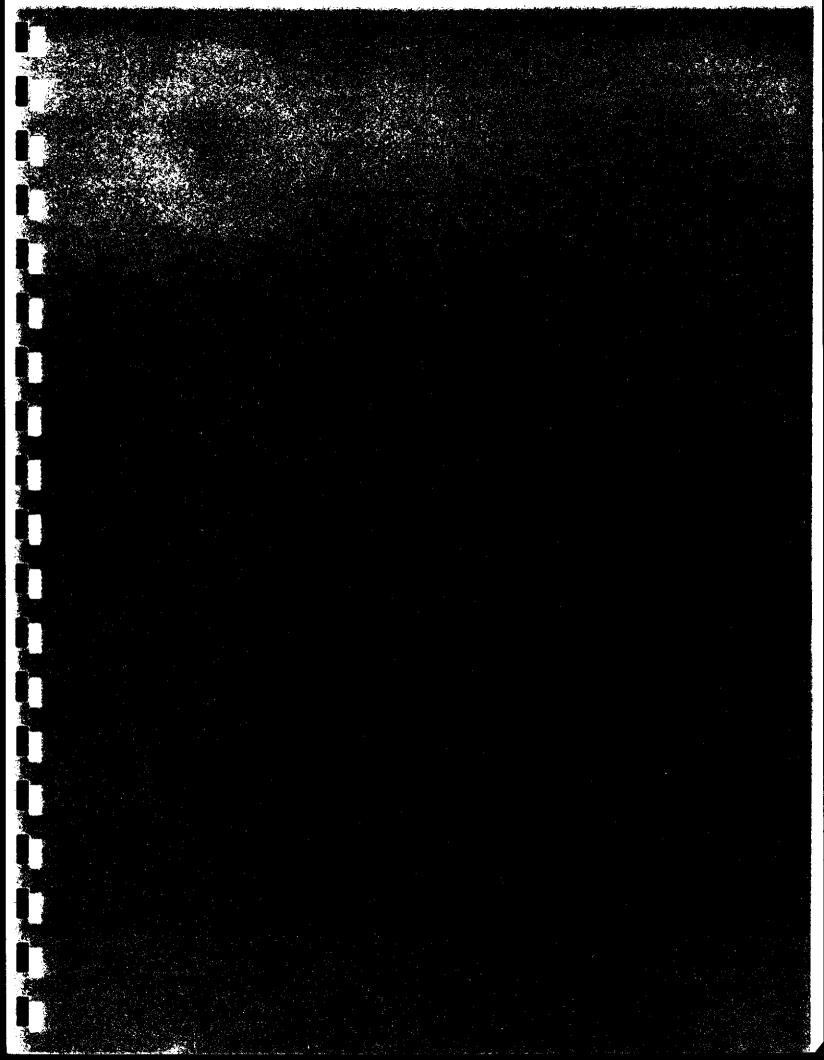
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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA	1			of 4		ired by Federal law.
3. Generator's Name and Mailing Address	CACUIDIO	7 9 <u>8 1 2 0 </u>	0 0 0		Marifest Documen	Number	Talanjara Tanan Ting
CALTRANS - DISTRICT 4				1.48		492	216322
111 Grand Avenue, Oak	land, CA. 940	607		B. State (Senerator & ID .crs	and the same	The state of the s
4. Generator's Phone (510) 286-56							
5. Transporter 1 Company Name	6 .	US EPA ID Number			Fransporter's IO		
H & H Ship Service Com	pany C	A D 0 0 4 7 7	1 1 6 8	Di. Tramep	orter's Phone	(415)	543-4835
7. Transparter 2 Company Name	8.	US EPA ID Number		E Store.	comporter's ID	The state of the state of	A STATE OF THE STA
	1.1	11111		F. Transp	orter's Phone 🔄	A STATE OF	
9. Designated Facility Name and Site Addre H & H Ship Service Comp	ss 10.	US EPA ID Number			Foodby(s ID		TITIES
220 China Basin Street	yanı			Hir Facilit	& Phone: # 390	and the same	
	107 C	A D 0 0 4 7 7	1 1 6 8	· 43(415) 543	4835	- 1
11. US DOT Description (including Proper Shi	ipping Name, Hazard Clar	is, and ID Number)	12. Co	Type	13. Total Quantity	14. Unit Wt/Vol	L Ware Number
GIL AND WATER				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			San133
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15. Special Handling Instructions and Additio			is a c	1000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1		
JOB #12107			JOB SIT	E: KE	LLY'S TR	JCK REP	PAIR
24 Hr. Emergency Contact	•	•			21 Goss		
APPROPRIATE PROTECTIVE					kland, C		
16. GENERATOR'S CERTIFICATION: I here packed, marked, and labeled, and are in	aby declare that the content in all respects in proper cor	ts of the consignment are f idition for transport by high	ully and accurant hway according t	dy described o applicable	i above by prope e federal, state at	r shipping na d internation	me and are classified, allaws.
If I am a large quantity generator, I co							
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threat to human health and the environs waste management method that is availed	ment; OR, if I am a small able to me <u>and that I can r</u>	quantity generator, I have afford.	made a good		to manuale to a		
Printed/Typed Name 4// 4A)	CHOUL	Signature		/		0 1	mmth Day Year 1 2 9 9
17. Transporter 1 Admovedgement of Rece	rigt of Materials	1					
Printed/Typed Name		Signature	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	77		0,000	1 2 Day 9 9
NORWAN L. BERG	ine of Ataterials	1 1000	VY	<i></i> ₩	<u>~</u>		<u> </u>
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Transporter 2 Acknowledgement of Rece Printed/Typed Name Space Space Space Space Space Space					V ⊋' —		
18. Transporter 2 Actinowledgement of Rece Printed/Typed Name	of receipt of hazardous m	saterials covered by this m	polifest except as	noted in Ite	V	Mo	with Dany Year

↑	1. Generator's US EPA ID No.	Manifest Document	No. 2. Page 1	information in the shaded are
	WASTE MANIFEST	1	2 3 of 1	is not required by Federal law
	3. Generator's Name and Mailing Address CALTRANS - DISTRICT 4		Stone Marriest Documents	W-0000000
	111 Grand Avenue, Oakland, CA. 94607		. Store Generator's ID-19	
	4. Generator's Phone (510) 286-5646 5. Transporter 1 Company Name 6. US EPA ID Number	#		402012
	H & H Ship Service Company C A D 0 0 4	7 7 1 1 6 8	Irensporter's Phone	(A15) 5/3-0835
	7. Transporter 2 Company Name 8. US EPA ID Number		State (reseporter's ID)	
	Designated Facility Name and Site Address - 10. US EPA ID Number			
	APPROPRIATE TECHNOLOGIES 1700 Maxwell Road •		美術公里在10 8	Market State of
	Chula Vista, CA. 92011 C A T 0 8 0 0) 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0		14. Unit
	US DCT Description (including Proper Shipping Name, Hazard Class, and ID Number) a.	No.	Type Quantity	Wt/Vol World Name
G	GASOLINE CONTAMINATED SOIL NON-RCRA HAZARDOUS WASTE SOLID	0 0 2	BIN OLOTION	P
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	15. Special Handling Instructions and Additional Information JOB #12107 P.O. #27712	JOB SITE		ICK REPATR
	1	JOB SITE:		ICK REPAIR Street
	JOB #12107 P.O. # 27742 24 Hr. Emergency Contact: H & H #(415) 543-48	JOB SITE:	1821 Goss : Oakland, Co	ICK REPAIR Street alifornia shipping name and are classified
	JOB #12107 P.O. # 27 H/2 24 Hr. Emergency Contact: H & H # (415) 543-48 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR 16. GENERATOR'S CERTIFICATION: 1 hereby declare that the contents of the consignment	JOB SITE:	RELLY'S TRI 1821 Goss : Outland, C. excribed above by proper policable federal, state and of waste generated to it ently available to me whice	ICK REPAIR Street SLIFOTHIA Shipping name and are classified international laws. In degree I have determined to be minimized the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and the present an
	JOB \$12107 P.O. \$27412 24 Hr. Emergency Contact: H & H \$(415) 543-48 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment of packed, marked, and labeled, and are in all respects in proper condition for transport by If I am a large quantity generator, I certify that I have a program in place to reduce economically practicable and that I have selected the practicable method of treatment, threat to human health and the environment; OR, if I am a small quantity generator, I waste management method that is available to me and that I can afford. Printed/Typed Name ALLAN CHOW Signature	JOB SITE:	RELLY'S TRI 1821 Goss : Outland, C. excribed above by proper policable federal, state and of waste generated to it ently available to me whice	ICK REPAIR Street SLIFOTHIA Shipping name and are classified international laws. In degree I have determined to be minimized the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and future to the present and the present an
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