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September 2, 1992

Susan L. Hugo
Alameda County Health Agency
80 Swan Way, Room 350
Oakland, California 94621

Re: Underground Tank Removal
3211 Wood Street, Oakland, California

Dear Ms. Hugo:

At the request of Don Eisenberg, of Eisenberg, Olivieri & Associates, enclosed please find a copy of the report on Closure Activities pertaining to 3211 Wood Street, Oakland.

We are in the process of preparing the underground storage tank permit applications, Form A & B, and will provide those to you once they are finalized.

Very truly yours,

KNOX RICKSEN

Mark L. Cederborg

MLC:rbc
cc: Henrietta Larson

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REPORT OF UST CLOSURE ACTIVITIES

3211 WOOD STREET, OAKLAND, CALIFORNIA

PREPARED FOR

HENRIETTA LARSON

June 1992

Prepared by:

EOA, Inc.
(Eisenberg, Olivieri, and Associates)
1410 Jackson Street
Oakland, California 94612

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1.0 SCOPE OF REPORT

This report describes the removal of four underground storage tanks (UST's) at 3211 Wood Street, Oakland, California. The tank removal was carried out in accordance with the Closure Plan approved by Alameda County Health Care Services Agency, Department of Environmental Health. The closure of the UST's was conducted in compliance with local regulations and the State of California's underground storage tank regulations.

This report describes the tank closure activities and observations made during UST removal, as well as soil sampling activities and results of laboratory testing.

2.0 BACKGROUND

The following is EOA's understanding of the ownership and use of the site, based on conversations with Ms. Larson, Mr. Mark Cederborg of Knox, Rixon, and representatives of General Transportation and the Sutta Co..

It is EOA's understanding that Ms. Henrietta Larson is currently the life-tenant of the subject property, located at 3211 Wood Street in Oakland, California. The property owner is the Estate of Joseph Stearns. At present the property is leased to the Sutta Co. who sublease that portion of the site where the UST's are located to General Transportation. Prior to the Sutta Co., General Transportation leased the property directly from Ms. Larson and have occupied the site since the early 1980's. General Transportation uses the site as: 1) a warehouse/transfer station for unloading and reloading goods for distribution; 2) a truck maintenance yard; and 3) a truck dismantling yard. The location of the property is shown in Figure 1. A site plan showing the location of the UST's is shown on Figure 2.

In October 1990, EOA was retained to make recommendations regarding the UST's on the property. During this assessment it was discovered that two smaller UST's existed at the site in addition to the two larger tanks which were listed on the State Water Resources Control Board SWEEP's database. General Transportation indicated to EOA that they had used the two larger tanks but did not require any further use of them. Based upon that assessment EOA concluded that the two small tanks which were not contained in the State database probably required final closure under State regulations, and that the larger tanks would require closure if they were to be taken out of use. EOA recommended that the tanks be permanently closed in compliance with all applicable local and State laws.

A closure plan application was filed with the Alameda County Health Department on March 30, 1990 and approved on May 12, 1990. The closure plans and related correspondence with Alameda County Health Department are included in Attachment A of this Report. EOA acted as environmental consultant to Henrietta Larson during the UST removal. EOA's responsibilities included observation and documentation of the closure activities, sampling, and preparation of the closure plan and this closure report. Henrietta Larson contracted directly with DECON Environmental Services to perform the closure activities.

Details regarding the four UST's at the time of removal are shown on Table 1.

Because no information was available on the nature of the solvent contained in Tank 4, EOA collected samples from the tank contents, and sent those samples to two laboratories for preliminary screening to determine solvent characteristics. The samples were sent to Herguth Laboratories in Vallejo, CA, which specializes in petroleum hydrocarbon analysis, and to Cognis Laboratory in Santa Rosa, which has capabilities for identification of unknown compounds. The laboratory results, included in Attachment B, indicated that this material was an unchlorinated petroleum-based solvent, similar to paint thinner, with a flash point of less than 70 degrees F. This is consistent with the postulated use of this tank for storage of non-chlorinated, petroleum-based, degreasing solvent for automotive use.

3.0 SUMMARY OF CLOSURE ACTIVITIES

The four UST's have been removed in accordance with local and State laws and regulations. Specifically, the following activities were completed:

1) Four UST's and associated piping were excavated and removed from the site and disposed in compliance with all regulatory requirements for closure, hauling and disposal.

2) The backfill soil within the UST excavation was removed in accordance with the closure plan.

3) Additional polluted soil and groundwater were removed from the excavation immediately following tank removal at the request of Susan Hugo of Alameda County Department of Environmental Health.

4) Following the removal of the UST's, associated piping and soil, soil samples were collected from the sidewalls of each excavated area and verification analyses performed in accordance with RWQCB recommendations ("Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tanks", dated August 10, 1990).

Upon completion of the activities described above, all of the areas where excavation had been carried out were backfilled with base rock and a road base established.

4.0 SUMMARY OF OBSERVATIONS, SAMPLING RESULTS AND CONCLUSIONS

During the excavation of the UST's and associated piping the physical condition of the four UST's removed was evaluated. Three of the UST's (Tank No.'s 1, 2, & 3) and a large portion of the piping were in good condition. There was no visible evidence of significant deterioration, corrosion or leaks on these tanks. These three tanks were coated with 1/4-1/2" of bituminous resin coating. The other UST (No. 4), which did not have a coating,

was severely corroded. Several holes and separated seams were visible in that tank upon removal. The majority of the piping was bare steel and although it was somewhat corroded, no holes or significant pitting was observed.

Evidence of past leakage or spillage was visible in the soil, mostly in the vicinity of tank fill pipes, the dispenser area and under Tank No. 4. Soil discoloration and odors were observed in these areas. Groundwater was encountered at a depth 3-1/2 feet in the excavations. A thin film (sheen) of product was observed floating on the groundwater. The deepest part of the excavation was approximately 12 feet deep. All the soils excavated were either tank backfill or older material which was apparently artificial fill. No natural soils were encountered within the excavation.

Soil samples collected from the sidewalls of the excavation were analyzed according to Alameda County and Regional Water Quality Control Board guidelines to verify the chemical concentrations remaining in the soil following the excavation. The results of the verification analyses are shown on Table 2. The analytical data sheets and chain-of-custody forms are included in Attachment B.

The results of the sidewall sampling verification analyses indicated that at three sides of the excavation low concentrations of petroleum chemicals remain in the soil. At one side of the excavation, near and along the edge of the warehouse\building, the removal of visibly polluted soil was not possible due to the proximity of building foundations. The concentrations of metals measured at the sampled locations are of a magnitude that is probably typical background levels.

An Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report was submitted to Alameda County Department of Environmental Health, as required by Alameda County and the State Water Resources Control Board. A copy of the completed form is included in Attachment A. The results of the sidewall sampling and groundwater analyses confirm that petroleum hydrocarbons had been released at the site.

5.0 CLOSURE ACTIVITIES

An Underground Tank Closure Application was filed with the Alameda County Department of Environmental Health on April 8, 1992. Approval was received on May 4, 1992. A permit to excavate the UST's was obtained from the City of Oakland on May 6, 1992. The closure plan and related correspondence are included in Attachment A. The closure plan application provided details of the proposed closure activities.

5.1 Underground Storage Tank Removal

The four UST's were located beneath an approximately 33' x 33' square concrete slab. An elevated concrete pad also existed (where previously dispensers were located) under which existed piping pits which probably housed pumps. Prior to construction activity at the site a utility locator service identified underground utilities in the proposed excavation

area. On May 11, 1992, the concrete slab and dispenser island were broken and removed using a concrete breaker and a large excavator. The concrete material was stored onsite in a separate stockpile (approx. 40 yards) and later sent to American Rock in Richmond, a concrete recycler.

The top two to three feet of backfill was then excavated and removed to a soil stockpile (stockpile 2). Soil from around and above the two larger tanks (diesel and gasoline) was also placed in that stockpile. Soil excavated in the vicinity of the smaller tanks was placed in a separate, smaller stockpile (stockpile 1).

As the upper backfill was excavated and tank piping was uncovered, the layout of piping was recorded. Each tank had piping to one vent line (two vent lines for the gasoline tank) and piping to the associated dispenser. All of the piping was then excavated and removed from the excavation and stockpiled. The majority of the piping was bare steel, although some of the fittings were coated. Galvanized piping appeared to had been used for the gasoline tank and above ground vent pipes. The bare steel piping and fittings showed some pitting although no significant corrosion or holes were observed. The galvanized piping generally showed no signs of corrosion. The layout of all piping is shown on Figure 2.

As additional backfill was removed from around the tanks, groundwater was observed at a depth of 5.5 feet. No additional excavation was performed until the contents of the four UST's were removed and the tanks rinsed and cleaned. A vacuum truck arrived on the site on the morning of May 12, 1992. At that time, the tank contents were removed, and the tanks were rinsed and cleaned using a steam cleaner. The tank contents and rinsate were collected in a vacuum truck and transported by PRC Refineries Services for recycling as non-RCRA hazardous waste. The total volume of liquid collected as a result of cleaning the tanks was on the order of 1200 gallons. Approximately 100 yards of soil backfill was removed prior to the removal of the tanks. A copy of the manifest is included in Attachment C.

On May 13, 1992 the tanks were inerted in accordance with City of Oakland regulations and removed in the presence of Susan Hugo of Alameda County Health Care Services Agency. On removal it was noted that three of the UST's had a protective coating which consisted of a 1/4-1/2 inch layer of bituminous resin. The UST's with this coating appeared to be in a good condition and showed no signs of significant corrosion or deterioration. The one UST which did not have this protective coating (tank 4) was severely corroded. Several holes (some large) and separated seams were observed at the base of the tank upon removal. The empty UST's were transported by Erickson Trucking Inc. to Erickson Inc. for recycling. A copy of the manifest is included in Attachment C.

During the removal of the UST's groundwater was observed entering the excavation below depths of about 3-1/2 feet. As this groundwater collected at the base of the excavation it was observed that a thin film (sheen) of product was floating on the surface.

Following removal of the tanks approximately 80 yards of additional backfill soil was excavated. Because of the high groundwater under-tank samples could not be collected.

In accordance with Alameda County guidelines, Susan Hugo requested that sidewall samples be collected above the soil/water interface (at a depth of about 3 feet) along the sides of the excavation. It was agreed that two sidewall samples be collected from each wall of the excavation and analyses in accordance with Alameda County guidelines.

Prior to sampling Ms. Hugo requested that visibly polluted soil be removed from the excavation to at least the depth of the base of the tanks and that all polluted groundwater be removed from the excavation prior to backfilling. Because of the high groundwater and significant sloughing on the west side wall, it was decided to excavate the visibly polluted soil in sections to prevent soil failure of the excavation sidewalls and the adjacent sidewalls. The deeper areas of the excavation were excavated in sections, the excavated area immediately filled with drain rock before significant inflow of groundwater or sloughing of sidewalls, and then the adjacent area was excavated. Because of the proximity of the adjacent building/warehouse on the north side of the excavation, it was not possible to excavate all visibly polluted soil on the north side of the excavation, adjacent to the building foundations.

The majority of the additional visibly polluted soil was removed from the excavation and the remaining four samples collected on May 14, 1992. Approximately 60 yards of additional soil was excavated. In addition a total of 400 gallons of groundwater was removed from the excavation prior to placement of backfill in accordance with the request of Susan Hugo. This groundwater was collected in a vacuum truck and transported by PRC Refineries Services for recycling as non-RCRA hazardous waste.

A total of 180 cubic yards was removed from the excavation. Approximately 60 yards was additional excavation requested by Susan Hugo to remove visibly polluted soils from the excavation.

The stockpile soil material is currently stored at the site and will be disposed of in the near future in accordance with federal, State and local regulatory guidelines. The excavation was backfilled on May 15, 1991 with clean base rock and capped with 24-inches of roadbase on the surface.

The extent of the excavated area is shown on Figure 3. Cross-sections of through the excavated area are shown on Figure 4.

5.2 Sidewall Sampling and Associated Results

Samples were collected from the sidewalls of the excavation at a depth of approximately 3 feet on May 13 and May 14, 1992 at locations agreed upon with Ms. Susan Hugo of Alameda County Health Care Services Agency, Department of Environmental Health. These samples were collected and verification analyses performed in accordance with the closure plan and the RWQCB recommendations ("Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tanks", dated August 10, 1990).

Samples were either taken directly from the excavation sidewall or from the excavator bucket. The samples were essentially undisturbed hand driven core samples. The locations of all sidewall samples are indicated on Figure 3.

At the sampling location all disturbed soil in the sample area was removed. The sample was then collected by pushing a 2" diameter stainless steel sample tube directly into the sidewall by hand or with a soft hammer and retrieving the tube by digging around it with a geology pick. The sample tubes were then sealed at each end with teflon or aluminum foil, and capped with a plastic cap. Finally, the cap was sealed by wrapping with non-adhesive tape, and the sample was labeled. The samples were placed in cold storage and transported under chain-of custody to Curtis and Tompkins, Analytical Laboratories for analysis. The results of the analytical testing are shown in Table 2. The analytical laboratory data sheets and chain-of-custody forms are included in Attachment B.

The results indicated that at three sides of the excavation low concentrations of hydrocarbons remain in the soil. At one side of the excavation, near and along the edge of the warehouse\building, the removal of visibly polluted soil was not possible due to the proximity of building foundations. At this location the concentrations remaining in the soil are higher. The results of the metal analysis indicate the concentration of metals present at the sampled locations represents typical background levels found at similar sites in the West Oakland area.

5.3 Stockpile Sampling and Associated Results

Excavated soil was segregated into stockpiles according to the level of pollution as determined by visual determination and the use of a PID. The stockpiles were then sampled and the level of pollution for each stockpile was determined by laboratory testing. Approximately 180 cubic yards of soil, and other debris were stockpiled onsite as a result of the UST removal and related closure activities. Samples of the stockpiles were collected on May 15, 1992 and the samples were composited and tested for constituents of concern. The results of the analytical testing are shown in Table 3. The analytical laboratory data sheets and chain-of-custody forms are included in Attachment B.

Following excavation two soil stockpiles existed at the site. The first stockpile contained soil collected from the vicinity of Tanks 3 and 4 (waste oil and solvent tank) and contained about 20 yards of material. The second stockpile contained approximately 160 yards of soil. This included about 20 yards of saturated soil taken from the bottom of the excavation in vicinity of Tanks 1 and 2, and approximately 140 yards of material excavated from the vicinity of Tanks 1 and 2.

For every 50 yards of material within the stockpile, a composite sample was analyzed. Three discrete subsamples were collected from Stockpile 1. Eight discrete subsamples were collected from Stockpile 2. Each subsample was collected from 12" to 36" below the surface. Each subsample was labeled according to its stockpile, its location within the stockpile and the date sampled. The samples were obtained from the stockpile by driving a stainless steel tube directly into the soil. The stainless steel tubes were then sealed at

each end with teflon, and capped with a plastic cap. Finally, the cap was sealed by wrapping with non-adhesive tape, and the sample was labeled. The samples were placed in cold storage and transported under chain-of custody to Curtis and Tompkins, Analytical Laboratories. At the laboratory, the samples were composited into one sample per 25 yards of stockpile. This resulted in a single composite for stockpile 1 and 4 composite samples for stockpile 2.

Based upon the results of the analyses, the soil in both stockpiles contains petroleum hydrocarbons, BTEX, and oil and grease at concentrations which may restrict disposal options. Although a detailed waste classification evaluation of the data relative to CCR Title 22 has not yet been performed, it appears that the concentrations of the measured pollutants alone would not require that soil be classified as a hazardous waste. The soil is currently being stored at the site, on plastic sheet, and covered by plastic sheet.

5.4 Groundwater Sampling and Results

One groundwater sample was collected from the groundwater which entered the excavation following the removal of the UST's. The sample was collected on the morning of May 14, 1992 after the excavation had been left undisturbed for over 12 hours. Seepage into the excavation was generally slow and a static groundwater level had not been reached. Several 40 ml VOA vials and 1-liter glass containers were filled with care to minimize the getting free product in the sample [redacted] was floated off the top and the container immediately capped. The samples were transported under chain-of-custody to Curtis and Tompkins, Analytical Laboratories for analysis.

The results of the laboratory analyses are shown on Table 4 and indicate that the groundwater in the excavation contained petroleum hydrocarbons. The following concentrations of petroleum hydrocarbons were detected: 12,000 ug/L for TPH as diesel and 190 ug/L for TVH as gasoline. Acetone was detected at 30 ug/L. This may be laboratory contaminant since it is commonly used in the laboratory. No other compounds were detected under EPA 8240 or EPA 8270 analyses. Lead, nickel and zinc were detected in the groundwater at 23.6, 80.5 and 61.3 ug/L respectively.

5.5 Description of Soils Encountered During Excavation

No 'natural' soils were encountered during the excavation of the underground tanks or during soil removal. The maximum depth explored was approximately 12 feet below adjacent grade. Groundwater was encountered at a depth of about 3-1/2 feet below adjacent grade. The base of the 8000-gallon tanks as shown on the cross-sections was at a depth of 11.5 feet below adjacent grade. The base of the two smaller tanks was at a depth of 7-1/2 feet. The majority of the excavated area was covered by a 8-12-inch deep concrete slab. 12 inches of gravel roadbase covered other excavated areas.

The tank backfill consisted of light brown to grey brown sand. Virtually all of this material (approximately 80 yards) was excavated. Beneath and surrounding the tank backfill the soils consisted of dredged fill materials composed of grey silty clay and clayey silt bay muds containing large amounts of white oyster and clam shells and lesser amounts of dark grey to black peat and organic plastic clays. Approximately 100 yards of this material was excavated.

5.6 Disposal of Wastes Generated during UST Closure Activities

Clean concrete was brushed free of soil, and sent to American Rock in Richmond, a concrete recycler, as a nonhazardous waste. Decon Environmental Services removed liquid waste. Liquid waste was transported and recycled by PRC Refineries Services in Patterson, CA as a non-RCRA hazardous waste. The empty UST's upon removal were transported by Erickson Trucking Inc. to Erickson Inc. for recycling. Curtis and Tompkins, Analytical Laboratories, Inc. (DOHS Hazardous Waste Certificate No. 159) performed laboratory testing services during tank removal. The stockpiled soil is at present stored at the site. EOA has recommended that the soil be removed as soon as possible. Appropriate disposal options have yet to be identified and evaluated.

6.0 SUMMARY AND CONCLUSIONS

The four USTs and associated piping were removed in compliance with local and State regulations. The removal involved excavation of soil and concrete above and surrounding the tanks, removing the UST's, piping, and excavated material, and disposing uncontaminated excavated material in compliance with applicable regulations. Some visibly polluted soil was left in place due to its proximity to the adjacent building foundations. During the UST removal visual evidence of an unauthorized release was encountered which was confirmed by the results of laboratory analyses on samples of excavated soil. The results of the sidewall sampling and groundwater analyses confirmed petroleum hydrocarbons had been released in the vicinity of the tanks, piping and dispensers.

The results indicated that at three sides of the excavation, the concentrations remaining in the soil are relatively low. At one side of the excavation, near and along the edge of the warehouse\building, the removal of visibly polluted soil was not possible due to the proximity of building foundations. Along this side, the remaining concentrations of petroleum hydrocarbons are higher than those measured at the other three sidewalls. The concentration of metals present at the sampled locations are at a magnitude which is probably typical of background levels.

The maximum concentrations detected in the polluted soils remaining at the site in proximity to the building foundations are than 26,000 ppm for TPH as diesel; 5,100 ppm for TPH as gasoline; 1.4 ppm for benzene; 0.96 ppm for toluene, 4.9 ppm for ethylbenzene; 8.7 ppm for xylene. As noted, polluted soils were removed to much lower concentrations at the other three sides of the excavation.

The groundwater which entered the excavation following the removal of the tanks was found to contain petroleum hydrocarbons. The following concentrations of petroleum hydrocarbons were detected in the groundwater; 12,000 ug/L for TPH as diesel and 190 ug/L for TVH as gasoline. Acetone was detected at 30 ug/L. This may be laboratory contaminant since it is commonly used in the laboratory. No other compounds were detected in the water sample under EPA 8240 or EPA 8270 analyses. Lead, nickel and zinc were detected in the groundwater at 23.6, 80.5 and 61.3 ug/L respectively.

7.0 LIMITATIONS

The services performed by EOA, Inc. during this closure have been performed using that degree of care and skill ordinarily exercised by reputable professionals practicing under similar circumstances in this or similar localities. No other warranty, expressed or implied, is made by providing these consulting services. This report has been prepared by EOA, Inc. for Henrietta Larson for submittal to Alameda County Health Department and other regulatory agencies. This report has not been prepared for use by other parties, and may not contain sufficient information for the purposes of other parties or uses.

It should be recognized that subsurface conditions may vary from those encountered at the location where samples are collected. The data, interpretation and recommendations of EOA, Inc. are based solely on the information available to EOA, Inc. during the project. EOA, Inc. will be responsible for those data, interpretations and recommendations, but shall not be responsible for the interpretation by others of the information developed.

Because of the limitations inherent in sampling, and the variability of natural materials, determining the absence of any chemical except in the immediate vicinity of a sample can rarely be done with complete certainty. The only way to determine that a site is absolutely free of chemicals of concern is to sample and analyze all the soil and groundwater at the site, which is impractical and costly. Balancing the level of confidence required against the budgetary constraints is difficult. The sampling and analysis in this investigation were defined by the Alameda County Health Department guidelines for underground tank removal, and were consistent with State regulations and guidelines. In several areas the work scope went well beyond the minimum requirement, to reduce inherent uncertainty.

TABLE 1

DESCRIPTION OF UST'S

Tank No.	Capacity (gallons)	Tank Contents	Depth to Base of Tank (feet)	Volume Remaining before removal (gallons)	Comments
1	8000	Diesel	11.5	200	In SWEEPS database bitumen coated - No significant corrosion
2	8000	Leaded Gasoline	11.5	200	In SWEEPS database bitumen coated - No significant corrosion
3	500	Waste Oil	6.5	50	Not in SWEEPS database - bitumen coated - No significant corrosion
4	500	Solvent	6.5	200 (mostly water)	Not in SWEEPS database - No bitumen coating - significant corrosion, separated seams and holes

TABLE 2

RESULTS OF LABORATORY ANALYSES – SIDEWALL SAMPLES

3211 WOOD STREET, OAKLAND, CA 94608

ANALYTE		SAMPLE ID.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
		NEAREST TANK	SOLVENT	WASTE OIL	GAS	DIESEL	DIESEL	DIESEL	DISPENSER	DISPENSER
TPH as Diesel	(mg/Kg)		2	ND (1)	NA	[redacted]	1	ND (1)	[redacted]	NA
TVH as Gasoline	(mg/Kg)		NA	3	ND (1)	NA	NA	NA	NA	[redacted]
BTEX										
BENZENE	(ug/Kg)		ND (5)[1]	ND (5)[1]	ND (5)	ND (5)	ND (5)	ND (5)	ND (400)	[redacted]
TOLUENE	(ug/Kg)		ND (5)[1]	ND (5)[1]	ND (5)	ND (5)	ND (5)	ND (5)	ND (400)	960
ETHYLBENZENE	(ug/Kg)		ND (5)[1]	ND (5)[1]	ND (5)	ND (5)	ND (5)	ND (5)	[redacted]	4900
TOTAL XYLENES	(ug/Kg)		ND (5)[1]	ND (5)[1]	ND (5)	ND (5)	ND (5)	ND (5)	[redacted]	[redacted]
METALS										
LEAD	(mg/Kg)		NA	ND (3)	ND (3)	NA	NA	NA	NA	9.0
CADMIUM	(mg/Kg)		NA	ND (0.25)	NA	NA	NA	NA	NA	NA
CHROMIUM	(mg/Kg)		NA	[redacted]	NA	NA	NA	NA	NA	NA
NICKEL	(mg/Kg)		NA	14.7	NA	NA	NA	NA	NA	NA
ZINC	(mg/Kg)		NA	13.7	NA	NA	NA	NA	NA	NA
OIL & GREASE	(mg/Kg)		NA	ND (50)	NA	NA	NA	NA	NA	NA
EPA 8270[2]			NA	ND (varies)	NA	NA	NA	NA	NA	NA
EPA 8240	(ug/Kg)		ND (varies)							
Acetone				[redacted]	NA	NA	NA	NA	NA	NA

NOTE:

See Figure 1 for location of sidewall samples.

Sampling Date 5/13/93 for samples SW1 through SW4. Sampling Date 5/14/92 all others.

[1] EPA 8240 Anaylsis. See under EPA 8240 if other analytes were detected.

[2] Only results for analytes detected are shown for EPA 8270 analyses.

See Analytical Laboratory Data sheets for additional information.

NA - Not Analyzed.

ND (80) - Not detected (detection limit as indicated).

F:\KX02\STOCKPIL.WK1

TABLE 3

RESULTS OF LABORATORY ANALYSES – STOCKPILED SOIL

3211 WOOD STREET, OAKLAND, CA 94608

ANALYTE		STOCKPILE	[redacted] SOLVENT/WASTE OIL	STOCKPILE 2 GASOLINE/DIESEL			
		EST. VOLUME	20 yd^3	160 yd^3			
		SAMPLE ID.	S1 A,B,C	2 A,B	3 A,B	4 A,B	5 A,B
TPH as Diesel	(mg/Kg)		510	260	2000	1400	2300
TVH as Gasoline	(mg/Kg)		94	47	3	38	90
BTEX							
BENZENE	(ug/Kg)		22[1]	ND (80)	ND (5)	ND (80)	ND (80)
TOLUENE	(ug/Kg)		33[1]	ND (80)	ND (5)	ND (80)	ND (80)
ETHYLBENZENE	(ug/Kg)		170[1]	ND (80)	ND (5)	ND (80)	ND (80)
TOTAL XYLENES	(ug/Kg)		[redacted]	180	14	94	120
METALS							
LEAD	(mg/Kg)		11.3	10.3	13.6	75	11.6
CADMIUM	(mg/Kg)		0.28	NA	NA	NA	NA
CHROMIUM	(mg/Kg)		23.4	NA	NA	NA	NA
NICKEL	(mg/Kg)		26	NA	NA	NA	NA
ZINC	(mg/Kg)		76.7	NA	NA	NA	NA
OIL & GREASE	(mg/Kg)		[redacted]	150	790	760	920
EPA 8270[2]				NA	NA	NA	NA
Napthalene	(mg/Kg)		2.70				
2-Methylnapthalene	(mg/Kg)		3.00				
Phenanthrene	(mg/Kg)		0.97				
Fluoranthene	(mg/Kg)		0.84				
Pyrene	(mg/Kg)		0.86				
Benzoanthracene	(mg/Kg)		0.30				
Chrysene	(mg/Kg)		0.23				

NOTE:

Sampling Date 5/15/92

[1] EPA 8240 Anaylsis. No other analytes detected under EPA 8240.

[2] Only results for analytes detected are shown for EPA 8270 analyses.

See Analytical Laboratory Data sheets for additional information.

NA - Not Analyzed.

ND (80) - Not detected (detection limit as indicated).

F:\KX02\STOCKPIL.WK1

TABLE 4

RESULTS OF LABORATORY ANALYSES - GROUNDWATER SAMPLE
3211 WOOD STREET, OAKLAND, CA 94608

ANALYTE		PIT-H2O
TPH as Diesel	(ug/L)	12000
TVH as Gasoline	(ug/L)	190
BTEX		
BENZENE	(ug/L)	ND (5)[1]
TOLUENE	(ug/L)	ND (5)[1]
ETHYLBENZENE	(ug/L)	ND (5)[1]
TOTAL XYLENES	(ug/L)	ND (5)[1]
METALS		
LEAD	(ug/L)	23.6
CADMIUM	(ug/L)	ND (5)
CHROMIUM	(ug/L)	ND (10)
NICKEL	(ug/L)	80.5
ZINC	(ug/L)	61.3
OIL & GREASE	(ug/L)	NA
EPA 8270[2]		ND (varies)
EPA 8240	(ug/L)	
Acetone		30

NOTE:
Groundwater sample collected from excavation on 5/14/92.
[1] EPA 8240 Anaylsis. See under EPA 8240 if other analytes were detected.
[2] Only results for analytes detected are shown for EPA 8270 analyses.
See Analytical Laboratory Data sheets for additional information.
NA - Not Analyzed.
ND (80) - Not detected (detection limit as indicated).

F:\KX02\GW-EXCAV.WK1

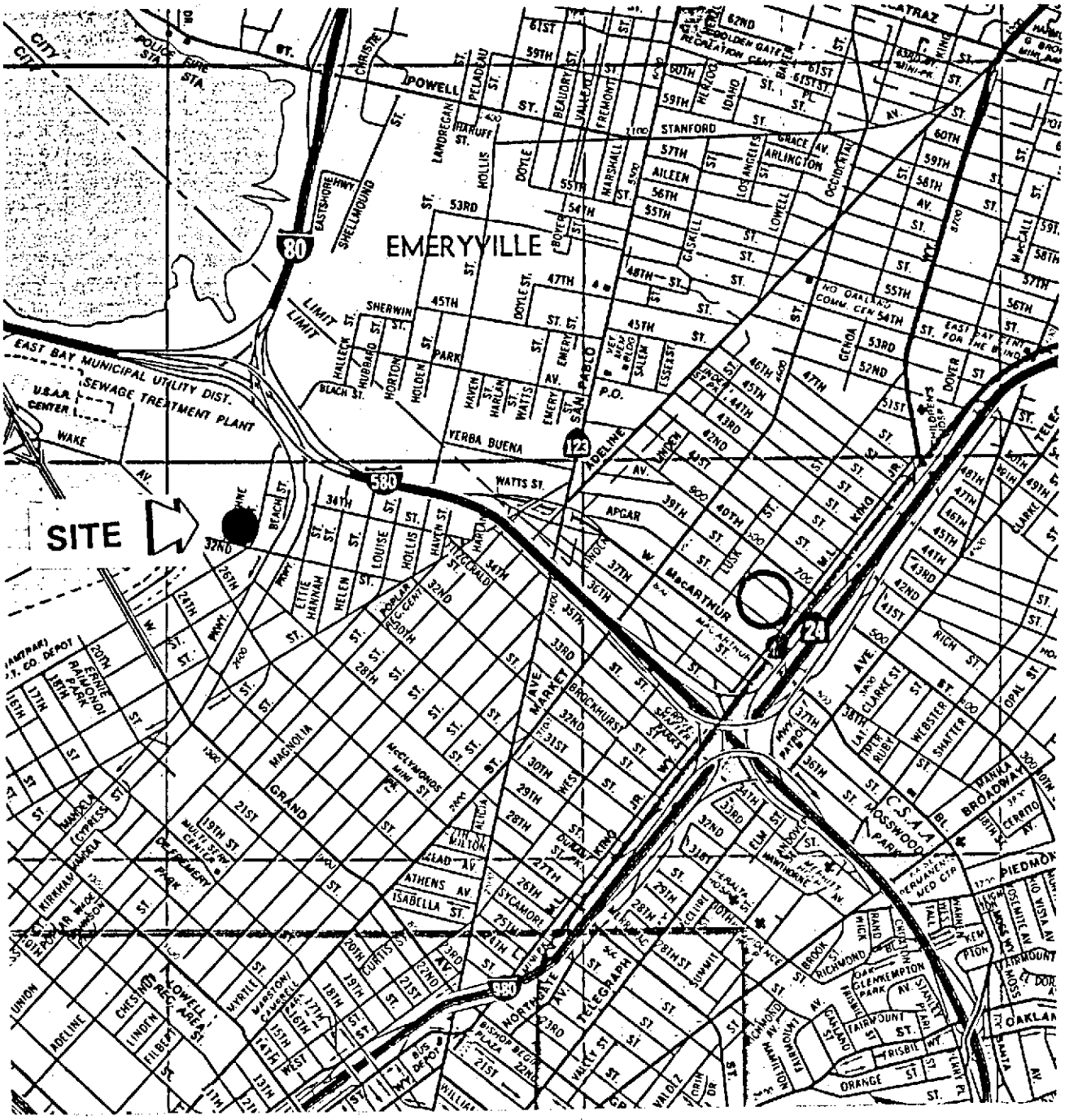
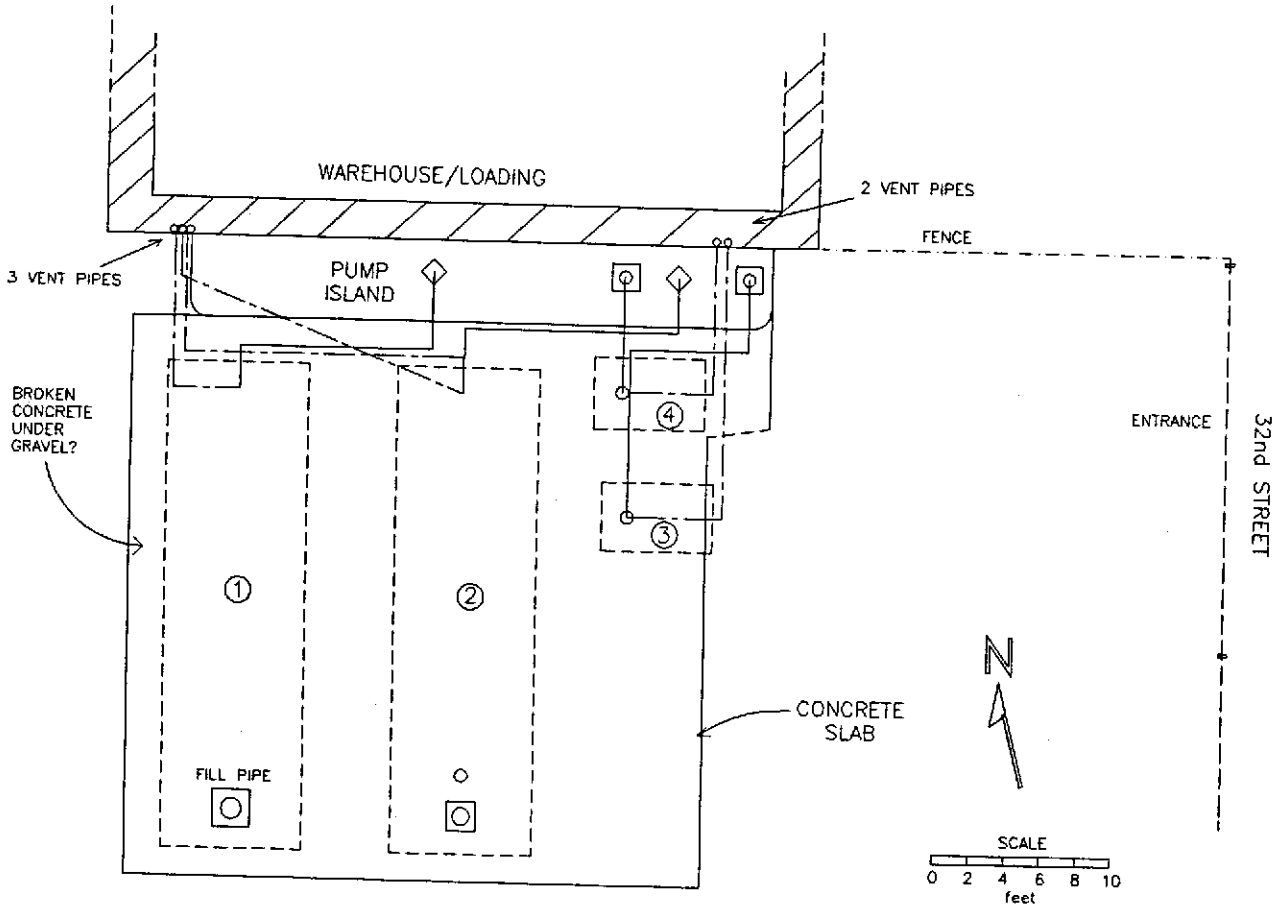


FIGURE 1 - LOCATION MAP

3211 WOOD STREET
OAKLAND, CA 94608

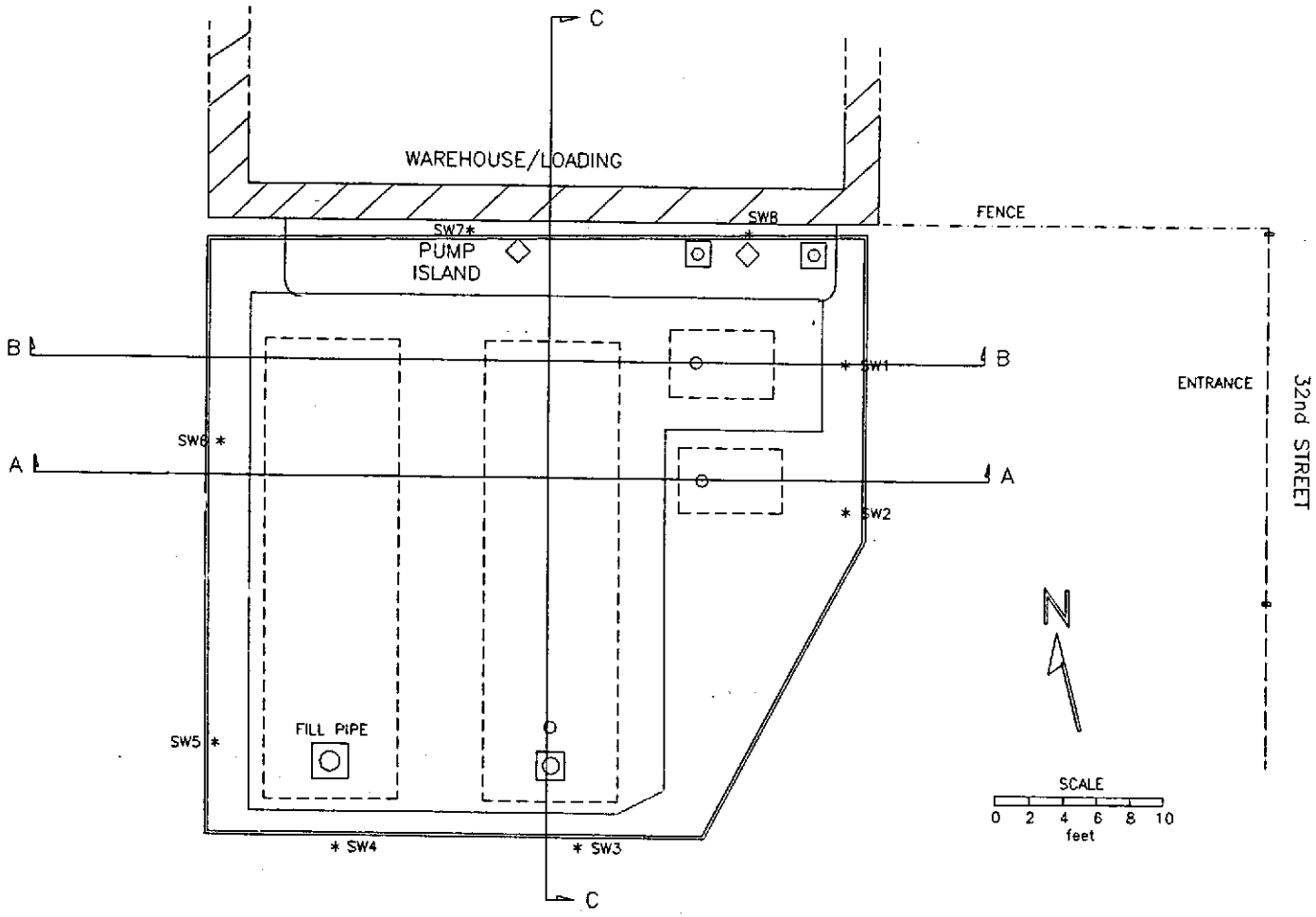
Eisenberg, Olivieri, & Associates



NOTES:
(1) DIESEL TANK
(2) GASOLINE TANK
(3) WASTE OIL TANK
(4) SOLVENT TANK

UNDERGROUND STORAGE TANK REMOVAL
3211 WOOD ST.
OAKLAND, CA 94608

EOA, Inc.	KX02PLAN.SKD DRAWN BY: PT	REV: 1 6/3/92	FIGURE 2

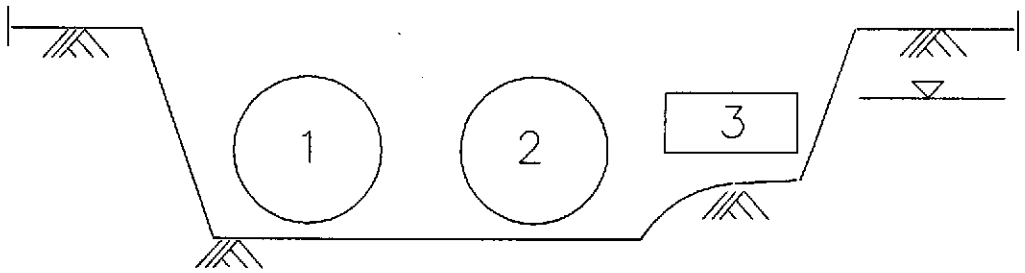


NOTES:
GROUNDWATER ENCOUNTERED AT A DEPTH OF 3.5' BELOW GROUND SURFACE.

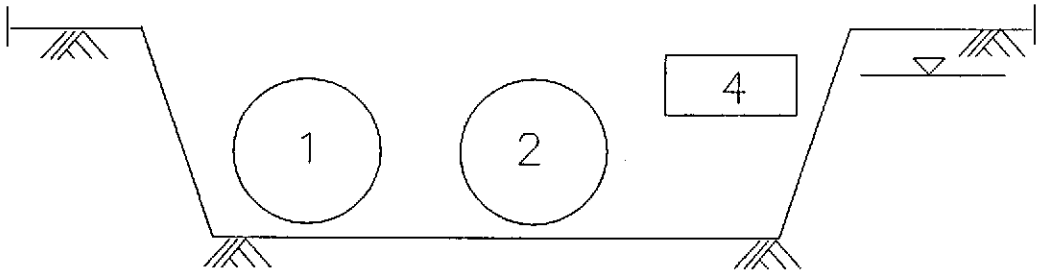
(1) TOP OF EXCAVATION
(2) BOTTOM OF EXCAVATION
(3) FORMER UST LOCATIONS
SW6 (4) SIDEWALL SAMPLE LOCATION

LIMITS OF EXCAVATION AND SIDEWALL SAMPLE LOCATIONS
3211 WOOD ST.
OAKLAND, CA 94608

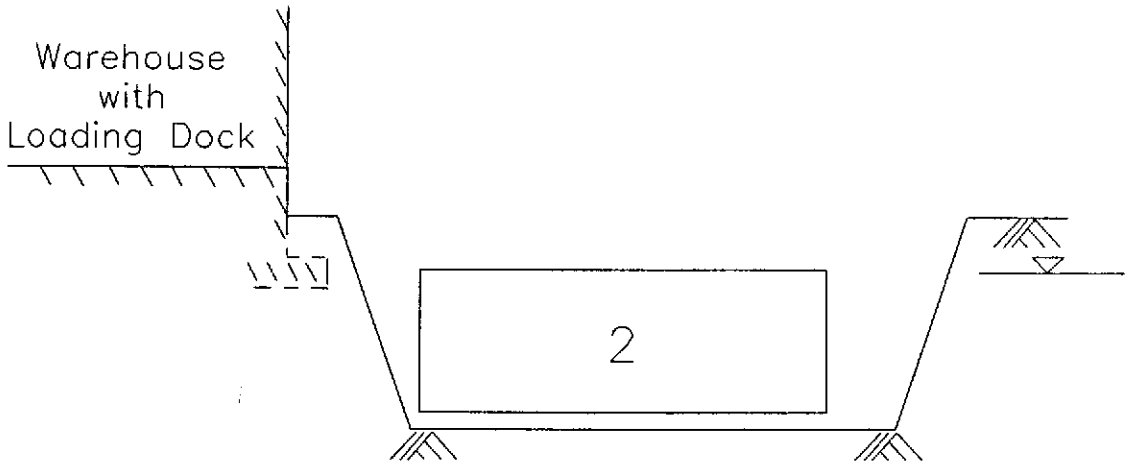
EOA, Inc.	KX02PLAN.SKD DRAWN BY: PT	REV: 1 6/3/92	FIGURE 3



Section A—A



Section B—B



Section C—C

NOT TO SCALE

Fig. 4

ATTACHMENT A

Closure Plan and Related Correspondence with Alameda County

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

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

Project Specialist (print) SUSAN L. HUGO

Please note change of name on page 5.
Susan L. Hugo
5/14/92

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

FORMERLY GENERAL TRANSPORTATION

1. Business Name (Tanks last used by Mrs. Larson's previous tenants, ("GENERAL TRANSPORTATION")
   Business Owner N/C
2. Site Address 3211 Wood Street
   City Oakland Zip 94608 Phone _____
3. Mailing Address 5601 Leona Street
   City Oakland Zip 94605 Phone (510) 531-7470
4. Land Owner Henrietta Larson (as life tenant)
   Address 5601 Leona Street City, State Oakland, CA Zip 94605
5. Generator name under which tank will be manifested _____
   Henrietta Larson
   EPA I.D. No. under which tank will be manifested CAC00680976

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* Need to submit Forms A & B

6. Contractor Decon Environmental Services Inc.

Address 26102 Eden Landing Road, Suite 4

City Hayward, CA 94545 Phone (510) 732-6444

License Type A & HAZ ID# 545726

7. Consultant EOA, Inc.

Address 1410 Jackson Street

City Oakland, CA 94612 Phone (510) 832-2852

8. Contact Person for Investigation

Name Ray Goebel Title Senior Engineer

Phone 832-2852

9. Number of tanks being closed under this plan 4

Length of piping being removed under this plan 60' est.

Total number of tanks at facility 4

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name PRC Refineries Services EPA I.D. No. CAD083166728

Hauler License No. 2591 License Exp. Date 3/31/93

Address 13331 N. Hwy 33

City Patterson State CA Zip 95363

b) Product/Residual Sludge/Rinsate Disposal Site

Name PRC Refineries Services EPA I.D. No. CAD083166728

Address 13331 N. Hwy 33

City Patterson State CA Zip 95363

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Hauler License No. 0019 License Exp. Date 5/31/92

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Address 255 Par Blvd.

City Richmond State Ca Zip 94801

11. Experienced Sample Collector

Name Jim Crowley

Company EOA, Inc.

Address 1410 Jackson Street

City Oakland State CA Zip 94612 Phone (510) 832-2852

12. Laboratory

Name Curtis & Tompkins, Ltd.

Address 2323 Fifth Street

City Oakland State Ca Zip 94710

State Certification No. #159

13. Have tanks or pipes leaked in the past? Yes [ ] No [X]

If yes, describe.

14. Describe methods to be used for rendering tank inert

Cleaning; Rinsing; Dry Ice; Disconnections of pipes; capping pipes, in accordance with fire department and BAAQMD Regulations.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. **It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.**

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, groundwater, etc.)	Location and Depth of Samples
Capacity (gals)	Use History (see instructions)		
10,000	Diesel-Installation date Unknown*	Soil*	One soil sample from beneath each each end of tank, at least 1 foot into natural soils
8,000	Gasoline- Installation Date unknown*	Soil*	
250-est.	Degreasing Solvent- Installation date unknown*	Tank contents Soil*	One soil sample from beneath center of each tank, at least 1 foot into natural soils.
250-est.	Waste oil -Installation Date unknown*	Soil*	Soil samples willalso be collected along piping.- Samples to be taken from sidewalls of excavation if groundwater is encountered.
	*installation date C. 1950	*Groundwater will be sampled if groundwater is encountered	

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

rev 12/90

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) Up to 200 yd^3 stockpiled temporarily	Sampling Plan 1. Soil suspected of being contaminated (on the basis of odor, appearance, and instrument readings) will be stockpiled and analyzed for appropriate constituents as required for proper disposal. 2. Clean soil will be stockpiled temporarily and used for backfill. Clean Soil must be verified by analytical results from a State Certified Lab.

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

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

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

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
			Soil-PPM
TPH-G	EPA 5020	EPA 8015	0-3 1. ppm
TPH-D	EPA 3550	EPA 8015	1
BTEX	EPA 5030	EPA 8020	0.005
Volatile Organics	EPA 5030	EPA 8240	0.002-0.020
O & G CL HC	SMWW17: 5520 E & F	8240	50
Metals			
Cd			0.1
Cr			1
Pb	EPA 3050	EPA 6010	1
Zn			1
Ni			1
Semi-Volatile Organics			
PCB			1.65
PCP			1.65
PNA	EPA 3550	EPA 8270	0.05
Cresote			0.05
Dibenzofuran			0.33

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Fund (Copy Attached)

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. **Report any leaks or contamination to this office within 5 days of discovery.** The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) Sean T. Delaney

Signature Sean T. Delaney

Date 4/6/92

Signature of Site Owner or Operator

Name (please type) Henrietta Larson

Signature Henrietta Larson

Date April 2, 1992

rev 12/90

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
Acknowledgement of Refund Recipient for Site Account
DEPOSITOR FILLS OUT PER SITE
-- REQUIRED --

The depositor will use this form to acknowledge that the property owner or his or her designee will receive any refund due at the completion of all deposit/refund projects at the site listed below.

SITE NUMBER/ADDRESS:

3211 Wood
Site Number

N/A
Company Name

Street Address

City Zip Code

REFUND RECIPIENT-PROPERTY OWNER

Henrietta Larson
Owner's Name

5601 Leona Street
Owner's Address

Oakland CA 94605
Owner's City State Zip

I have read the description of the project Deposit/Refund Procedure, and have had an opportunity to ask questions about it. I understand that regardless of who deposits money into the site account, any deposit money remaining at the completion of all projects being conducted at this site will be refunded solely to the property owner or his or her designee.

Henrietta Larson
Signature of Depositor

April 2, 1992
Date

Henrietta Larson
Depositor Name

(see above)
Company Name

Street Address

City / Zip

RETURN FORM TO: Alameda County, Hazardous Materials Div.
80 Swan Way, Rm 200
Oakland, CA 94621-1439
Phone: (510) 271-4320

DR-ACKN; mfk; 8/14/91

RECEIVED MAR 9 1992

STATE COMPENSATION INSURANCE FUND

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

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

MARCH 4, 1992

POLICY NUMBER: 430-91 UNIT 0CC0026
CERTIFICATE EXPIRES: 10-1-92

For Information Purposes Only

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ten days' advance written notice to the employer.

We will also give you TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

John A. Doyle

PRESIDENT

EMPLOYER

DECON ENVIRONMENTAL SERVICES INC
26102 EDEN LANDING #4
HAYWARD CA 94545

SCIF 10262 (REV. 10-86)

COPY FOR INSURED'S FILE

WASTE AUDIT STUDY
OF THE
COMMERCIAL PRINTING INDUSTRY

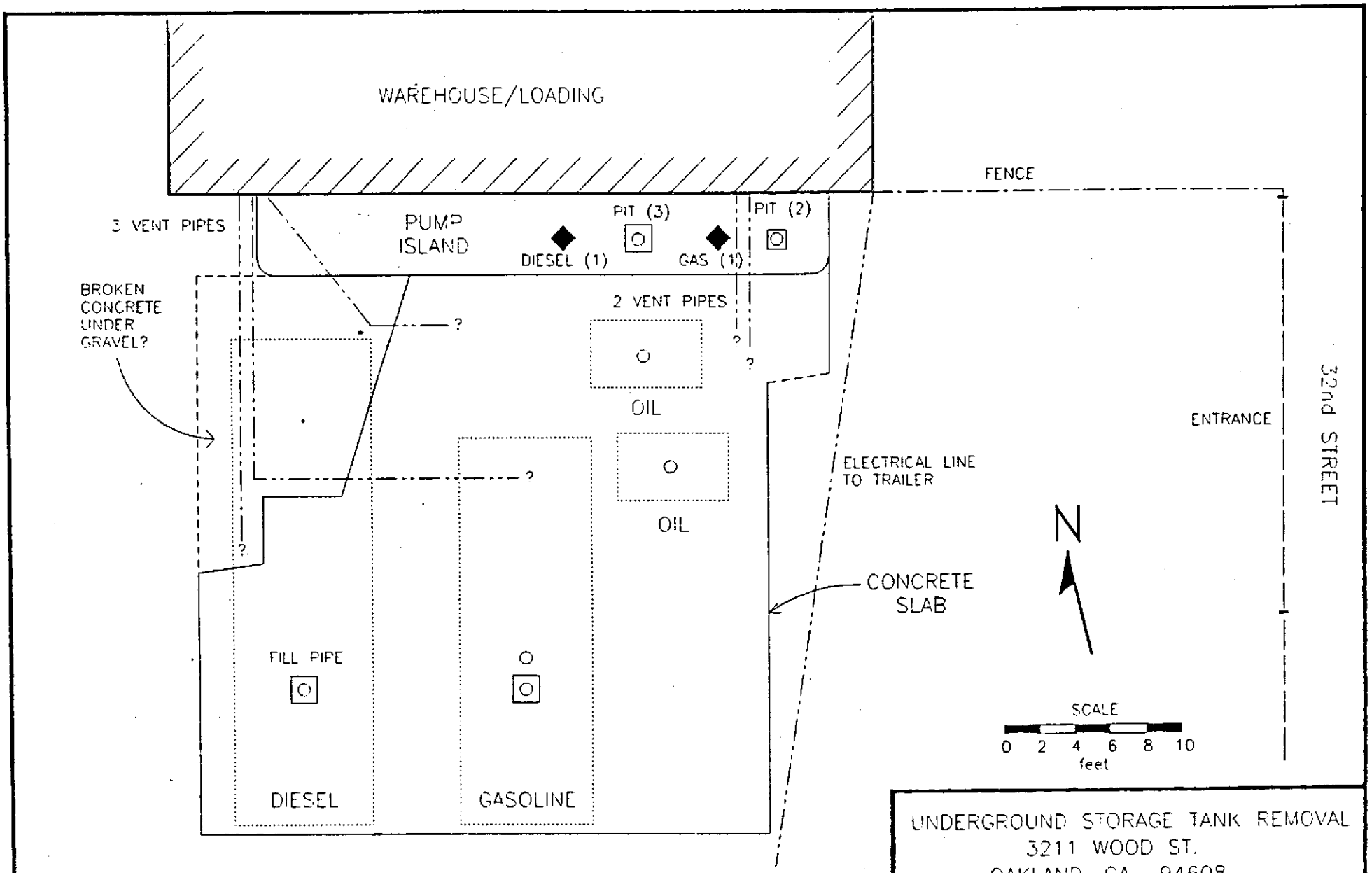
Prepared by

Jacobs Engineering Group Inc.
251 S. Lake Avenue
Pasadena, California 91101

Prepared for

California Department of Health Services
Alternative Technology Section
744 "P" Street
Sacramento, California 95814

May 1988



NOTES:
LOCATION OF TANKS IS INFERRED FROM SURFACE FEATURES. ACTUAL LOCATION MAY DIFFER.
(1) KNOWN LOCATIONS OF FORMER DISPENSERS.
(2) PIT FILLED WITH CONCRETE, WITH VERTICAL PIPE. PROBABLE LOCATION OF FORMER DISPENSER.
(3) PIT WITH VERTICAL PIPE. POSSIBLE LOCATION OF FORMER DISPENER.
(4) DEPTH TO GROUNDWATER UNKNOWN

UNDERGROUND STORAGE TANK REMOVAL
3211 WOOD ST.
OAKLAND, CA 94608

EOA, Inc.	KX02PLAN.SKD DRAWN BY: RG	REV: 0 12/23/91	PLATE

Site Safety Plan

DRAFT

Background Information:
Project Name: (EOA, Inc.)
Job Number:
Project Manager: Sean T. Delaney
Client Contact: Ray Goebel
Site Name: General Transportation Facility
Site Address: 3211 Wood Street Oakland, California
Overall Objective of Site Work: Removal of four underground storage tanks
Proposed Date of Site Work: To be determined
Source of Site Information: Site visit and project specification provided by EOA, Inc.
Will Site Officials Accompany Work Personnel: Yes
Work Time Limitations:
Warning for Site Evacuation: Verbal

Site Description:
Current Status: Transportation
Prior Status: Same
Materials Handled, Disposed, or Stored: Gasoline, diesel and waste oil
Potential Degradation Products: Petroleum hydrocarbons
Industrial Processes/Procedures: Fuel storage

Potential Environmental Hazards:

Gasoline or diesel may release vvolatile components to the atmosphere. Benzene and toluene are Proposition 65 chemicals. May cause groundwater contamination if it percolates to groundwater.

Potential Worker Hazards:

Exposure to gasoline or diesel. Will cause eye and skin irritation if splashed. Inhalation of vapors causes dizziness or nausea. Chronic effects may include liver and kidney damage. Benzene component is carcinogenic.

Exposure Limits:

8-hour time weighted average (TWA)
Gasoline - 300 ppm (TLV)
Benzene - 1 ppm (PEL)
Toluene/xylene/ethylbenzene - 100 ppm (PEL)

Potential Physical Hazards Onsite:

Those common to construction. Be careful of slips, trips and falls. Use caution working around heavy equipment.

Overall Hazard Estimation:

Required Personal Protective Equipment (optional as noted)

The following levels of personal protection have been designated:
(NOTE: No eating, drinking or smoking is allowed in work areas)

Level of Protection:

Level "D" - Hardhat, safety glasses, white tyvek, safety shoes, neoprene gloves (inside excavation).

Level "C" - Same as "D" plus 1/2 face APR w/OV cartridges.

Location(s) to be used: At construction site

When to use: All people must wear Level D protection whether working or visiting the site.

Personal Decontamination:

All personnel shall doff protective clothing before exiting the exclusion zone. Personnel shall wash face and hands before taking breaks or eating.

Disposal of Contaminated Materials or Equipment:

Contaminated gloves and equipment shall be washed in soapy water. Contaminated soil will be stockpiled and disposed of to appropriate TSDF. Underground tanks will be manifested and transported to Erickson, Inc.

Monitoring

1. Direct Reading Monitoring Equipment (e.g., Draeger tubes, HNu):

   Equipment: HNu (or similar)

   Location to be used: Employee Breathing Zone

   When to use: During excavation work inside trenches every 15 minutes/every 60 minutes if no active excavation is occurring.

2. Action Levels for Monitoring Results:

   Equipment: HNu

   Action Level: 5 ppm

   Action (type and duration): Go to Level "C"

   If 5 ppm level is exceeded, benzene Draeger tubes shall be used to evaluate presence of contaminant.

3. Medical Monitoring:

DECON employees undergo rigorous medical screening and monitoring. Records available upon request.

4. Fire Protection:

At least two 20 pound ABC extinguishers will be stationed adjacent to the excavation.

ONSITE ORGANIZATION AND COORDINATION

General

The following personnel are designed to carry out the stated job functions onsite:

Project Team Leader: Sean T. Delaney

Site Safety Officer: Tom Reese

Contractors onsite (state function):

DECON Environmental Services, Inc. - Tank excavation, cleaning and removal

Government Agency Representatives:

Alameda County Health Department, Oakland Building Inspectors and possibly Bay Area Air Quality Management District.

Site Access Control

Work area and contaminated stockpile area will be enclosed within temporary chain link fencing. Temporary fencing consists of 12' long by 8' high chain link panels that link together. The site will be secured at the end of each work day. Stockpiled soil will be placed in an asphalt area on 10 millimeter visqueen and covered with 6 millimeter visqueen.

EMERGENCY MEDICAL CARE AND PROCEDURES

Nearest emergency medical facility:
(see attached map)

Facility Name: Providence

Address: 3100 Summit, Oakland

Telephone: (510) 874-8012

Emergency Telephone Numbers:

Fire: 911

Police: 911

Ambulance: 911

Hotline (e.g., Poison Control Center): (415) 666-2845

Emergency First Aid for Substances Present:

Substance	Exposure Symptoms	First Aid
Gasoline	Nausea, dizziness	Take affected person to fresh air
	Eye Splash	Rinse with fresh water for 15 min.-take to doctor if irritation continues
	Ingestion	Do not induce vomiting - contact doctor

First Aid Equipment Onsite:

Equipment	Location
First Aid Kit	Adjacent to Excavation
Fire Extinguisher	Adjacent to Excavation
Emergency Eye Wash	Adjacent to Excavation

Onsite Emergency Procedures:

1. Personal injury or illness: Administer first aid; call ambulance if necessary; transport to

2. Fire or Explosion: Turn off all motorized equipment; evacuate working area; meet at designated upwind location.

3. Earthquake: Turn off all motorized equipment; evacuate working area; meet at designated upwind location.

4. Hazardous Material Spill or Release: Turn off all motorized equipment; evacuate work area in an upwind direction of the spill or release; meet at designated upwind location.

5. Personal Protective Equipment Failure: If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the Exclusion Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

6. Other Equipment Failure: If any other equipment onsite fails to operate properly, the project team leader and site safety officer shall be notified and then shall determine the effect of this failure on continuing operations onsite. If the failure affects the safety of personnel or prevents completion of the work plan tasks, all personnel shall leave the Exclusion Zone until the situation is evaluated and appropriate actions taken.

Prepared By: _____ _____
Date

Reviewed By: _____ _____
Date

Approved By: _____ _____
Date

DRAFT

Onsite Personnel

I have read and reviewed this Site Safety Plan and will comply with the requirements stated herein and directions from the site safety officers.

Name	Signature

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

EMERGENCY ☐ YES ☒ NO

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

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED Susan L. Hugo DATE 6/3/92

REPORT DATE 05/19/92 CASE #

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: HENRIETTA LARSON
PHONE: (510) 531-7470
SIGNATURE: Henrietta Larson
REPRESENTING ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☒ OTHER as life TENANT
COMPANY OR AGENCY NAME:
ADDRESS: 5601 LEONA STREET (STREET) OAKLAND (CITY) CA (STATE) 94605 (ZIP)

RESPONSIBLE PARTY
NAME: Maybe multiple RP's. ☒ UNKNOWN
CONTACT PERSON: Tenant at site
PHONE: ( )
ADDRESS: Property owner / Tank operator (STREET) CITY STATE ZIP

SITE LOCATION
FACILITY NAME (IF APPLICABLE): GENERAL TRANSPORTATION
OPERATOR:
PHONE: ( )
ADDRESS: 3211 WOOD (STREET) ST OAKLAND (CITY) ALAMEDA (COUNTY) 94608 (ZIP)
CROSS STREET: 32nd

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: ALAMEDA CO. HEALTH
CONTACT PERSON: SUSAN HUGO
PHONE: (510) 271-4530
REGIONAL BOARD: SAN FRANSCO BAY RWQCB (2)
CONTACT PERSON: RICH HIETT
PHONE: (510) 464-4354

SUBSTANCES INVOLVED
(1) NAME: PETROLEUM HYDROCARBONS — QUANTITY LOST (GALLONS): ☒ UNKNOWN
(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 05/13/92
HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 05/13/92
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☒ OTHER REMOVE CONTENTS / REMOVE TANK

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

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

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

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

COMMENTS

HSC 05 (11/89)

ATTACHMENT B

Analytical Laboratory Data Sheets and Chain-of-Custody Records

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

DATE RECEIVED: 05/15/92
DATE REPORTED: 06/01/92

LABORATORY NUMBER: 107400

CLIENT: EOA, INC.

PROJECT ID: KX02

LOCATION: 3211 WOOD STREET

RESULTS: SEE ATTACHED

Reviewed By

Reviewed By

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-1
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: COMPOSITE S1, A,B,C

DATE SAMPLED: 05/15/92
DATE RECIEVED: 05/15/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
cis-1,2-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	50
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethylene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	DETECTED(22)	25
trans-1,3-Dichloropropene	ND	25
2-Chloroethylvinyl ether	ND	50
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethylene	ND	25
Toluene	33	25
Chlorobenzene	ND	25
Ethyl benzene	170	25
Styrene	ND	25
Total xylenes	770	25

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	98 %
Toluene-d8	105 %
Bromofluorobenzene	107 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-6
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: SW1

DATE SAMPLED: 05/13/92
DATE RECIEVED: 05/15/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
cis-1,2-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	50
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethylene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	ND	25
trans-1,3-Dichloropropene	ND	25
2-Chloroethylvinyl ether	ND	50
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethylene	ND	25
Toluene	ND	25
Chlorobenzene	ND	25
Ethyl benzene	ND	25
Styrene	ND	25
Total xylenes	ND	25

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105 %
Toluene-d8	102 %
Bromofluorobenzene	114 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-7
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: SW2

DATE SAMPLED: 05/13/92
DATE RECIEVED: 05/15/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	29	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethylene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	104 %
Bromofluorobenzene	118 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 05/27/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethylene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	98 %
Bromofluorobenzene	113 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethylene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	97 %
Toluene-d8	100 %
Bromofluorobenzene	113 %

Curtis & Tompkins, Ltd

Laboratory Control Sample Report

Lab No: QC29031
Date Analyzed: 27-MAY-92
Matrix: Water
Batch No: 5398 924279

LCS Datafile: >BER03

Operator: AL

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	42.34	50	85 %	34-128%
Trichloroethene	47.41	50	95 %	37-160%
Benzene	49.66	50	99 %	79-109%
Toluene	49.02	50	98 %	74-115%
Chlorobenzene	47.82	50	96 %	79-118%
Surrogate Recoveries				
1,2-Dichloroethane-d4	47.15	50	94 %	53-170%
Toluene-d8	50.23	50	100 %	85-114%
Bromofluorobenzene	58.32	50	117 %	91-133%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-14
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: PIT H2O

DATE SAMPLED: 05/14/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/20/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L		Reporting Limit (ug/L)
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		20
Acetone		30	20
Carbon disulfide	ND		5
Trichlorofluoromethane	ND		5
1,1-Dichloroethene	ND		5
1,1-Dichloroethane	ND		5
cis-1,2-Dichloroethene	ND		5
trans-1,2-Dichloroethene	ND		5
Chloroform	ND		5
Freon 113	ND		5
1,2-Dichloroethane	ND		5
2-Butanone	ND		10
1,1,1-Trichloroethane	ND		5
Carbon tetrachloride	ND		5
Vinyl acetate	ND		10
Bromodichloromethane	ND		5
1,2-Dichloropropane	ND		5
cis-1,3-Dichloropropene	ND		5
Trichloroethylene	ND		5
Dibromochloromethane	ND		5
1,1,2-Trichloroethane	ND		5
Benzene	ND		5
trans-1,3-Dichloropropene	ND		5
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5
2-Hexanone	ND		10
4-Methyl-2-pentanone	ND		10
1,1,2,2-Tetrachloroethane	ND		5
Tetrachloroethylene	ND		5
Toluene	ND		5
Chlorobenzene	ND		5
Ethyl benzene	ND		5
Styrene	ND		5
Total xylenes	ND		5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	96 %
Bromofluorobenzene	112 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 05/20/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethylene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	102 %
Bromofluorobenzene	114 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-1
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: COMPOSITE S1 A,B,C

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/18/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

Waste Oil Screen Analysis *
EPA Method 8270
Extraction by EPA Method 3550

ANALYTE	RESULT ug/kg	REPORTING LIMIT ug/kg
Pentachlorophenol (PCP)	ND	1700
Polychlorinated Biphenyls (PCBs)	ND	1700
Dibenzofuran	ND	1700
Polynuclear Aromatics (PNAs)		
Naphthalene	2700	330
2-Methylnapthalene	3000	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Fluorene	ND	330
Phenanthrene	970	330
Anthracene	ND	330
Fluoranthene	840	330
Pyrene	860	330
Benzo(a)anthracene	DETECTED(300)	330
Chrysene	DETECTED(230)	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Coal-Tar Creosote**	ND	3300

* Reference: Tri-Regional Board Staff Recommedations for Preliminary Evaluation and Investigation of Underground Tank Sites.
**Sample does not contain one of the components of creosote so only the individual components are reported.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	61%	Nitrobenzene-d5	67%
Phenol-d6	68%	2-Fluorobiphenyl	54%
2,4,6-Tribromophenol	46%	Terphenyl-d14	52%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-7
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: SW2

DATE SAMPLED: 05/13/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/18/92
DATE ANALYZED: 05/29/92
DATE REPORTED: 06/01/92

Waste Oil Screen Analysis *
EPA Method 8270
Extraction by EPA Method 3550

ANALYTE	RESULT ug/kg	REPORTING LIMIT ug/kg
Pentachlorophenol (PCP)	ND	1700
Polychlorinated Biphenyls (PCBs)	ND	1700
Dibenzofuran	ND	1700
Polynuclear Aromatics (PNAs)		
Naphthalene	ND	330
2-Methylnapthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Fluorene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Coal-Tar Creosote	ND	3300

* Reference: Tri-Regional Board Staff Recommedations for Preliminary Evaluation and Investigation of Underground Tank Sites.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	55%	Nitrobenzene-d5	53%
Phenol-d6	62%	2-Fluorobiphenyl	50%
2,4,6-Tribromophenol	45%	Terphenyl-d14	58%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-14
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: PIT H20

DATE SAMPLED: 05/14/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/18/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

Waste Oil Screen Analysis *
EPA Method 8270
Extraction by EPA Method 3550

ANALYTE	RESULT ug/L	REPORTING LIMIT ug/L
Pentachlorophenol (PCP)	ND	25
Polychlorinated Biphenyls (PCBs)	ND	25
Dibenzofuran	ND	5
Polynuclear Aromatics (PNAs)		
Naphthalene	ND	5
2-Methylnapthalene	ND	5
Acenaphthylene	ND	5
Acenaphthene	ND	5
Fluorene	ND	5
Phenanthrene	ND	5
Anthracene	ND	5
Fluoranthene	ND	5
Pyrene	ND	5
Benzo(a)anthracene	ND	5
Chrysene	ND	5
Benzo(b)fluoranthene	ND	5
Benzo(k)fluoranthene	ND	5
Benzo(a)pyrene	ND	5
Indeno(1,2,3-cd)pyrene	ND	5
Dibenzo(a,h)anthracene	ND	5
Benzo(g,h,i)perylene	ND	5
Coal-Tar Creosote	ND	100

* Reference: Tri-Regional Board Staff Recommedations for Preliminary Evaluation and Investigation of Underground Tank Sites.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	64%	Nitrobenzene-d5	75%
Phenol-d6	62%	2-Fluorobiphenyl	62%
2,4,6-Tribromophenol	66%	Terphenyl-d14	52%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13-15/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/18/92
DATE ANALYZED: 05/19-20/92
DATE REPORTED: 05/27/92

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

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
107400-1	COMPOSITE S1 A,B,C	**	510	10
107400-2	COMPOSITE 2 A,B	**	260	10
107400-3	COMPOSITE 3 A,B	**	2,000	10
107400-4	COMPOSITE 4 A,B	**	1,400	10
107400-5	COMPOSITE 5 A,B	**	2,300	10
107400-6	SW1	**	2	1
107400-7	SW2	ND	ND	1
107400-9	SW4	**	120	1
107400-10	SW5	ND	1	1
107400-11	SW6	ND	ND	1
107400-12	SW7	**	26,000	100

ND = Not Detected at or above reporting limit.

*Reporting limit applies to all analytes.

** Quantitated as diesel.

QA/QC SUMMARY: Laboratory Control Sample

RECOVERY, %	70

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/23/92
DATE REPORTED: 05/28/92

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
107400-1	COMPOSITE S1 A,B,C	94	16

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/21/92
DATE REPORTED: 05/28/92

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
107400-7	SW2	3	1

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	74

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/22/92
DATE ANALYZED: 05/27/92
DATE REPORTED: 05/28/92

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

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
107400-3	COMPOSITE 3 A,B	3	ND(5)	ND(5)	ND(5)	14

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

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/14-15/92
DATE RECEIVED: 05/22/92
DATE ANALYZED: 05/23/92
DATE REPORTED: 05/28/92

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

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
107400-2	COMPOSITE 2 A,B	47	ND(80)	ND(80)	ND(80)	100
107400-4	COMPOSITE 4 A,B	38	ND(80)	ND(80)	ND(80)	94
107400-5	COMPOSITE 5 A,B	30	ND(80)	ND(80)	ND(80)	120
107400-13	SW8	5,100	1,400	960	4,900	8,700

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

QA/QC SUMMARY

RPD, %	6
RECOVERY, %	100

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13/92
DATE RECEIVED: 05/22/92
DATE ANALYZED: 05/20/92
DATE REPORTED: 05/28/92

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

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
107400-8	SW3	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)

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

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	89

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/14/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/23/92
DATE REPORTED: 05/28/92

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	SAMPLE ID	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)	REPORTING LIMIT * (ug/Kg)
107400-12	SW7	ND	ND	1,200	7,400	400

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13-14/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/21-23/92
DATE REPORTED: 05/28/92

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	SAMPLE ID	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)	REPORTING LIMIT * (ug/Kg)
107400-9	SW4	ND	ND	ND	ND	5
107400-10	SW5	ND	ND	ND	ND	5
107400-11	SW6	ND	ND	ND	ND	5

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	87

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13-15/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/22/92
DATE REPORTED: 05/29/92

ANALYSIS: LEAD
ANALYSIS METHOD: EPA 7420

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
107400-2	2 A,B	10.3	mg/Kg	3.0
107400-3	3 A,B	13.6	mg/Kg	3.0
107400-4	4 A,B	75.0	mg/Kg	3.0
107400-5	5 A,B	11.6	mg/Kg	3.0
107400-8	SW3	ND	mg/Kg	3.0
107400-13	SW8	9.0	mg/Kg	3.0

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

RPD, %	<1
RECOVERY, %	98

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-1
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: S1 A,B,C,

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/21/92
DATE REPORTED: 05/29/92

METAL	RESULT mg/Kg	REPORTING LIMIT mg/Kg	METHOD
Cadmium	0.28	0.25	EPA 6010
Chromium (total)	23.4	0.50	EPA 6010
Nickel	26.0	1.6	EPA 6010
Zinc	76.7	1.0	EPA 6010
Lead	11.3	3.0	EPA 7420

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD,%	RECOVERY,%
Cadmium	5	105
Chromium (total)	5	99
Nickel	3	98
Zinc	3	93
Lead	2	95

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-7
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: SW2

DATE SAMPLED: 05/13/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/21/92
DATE REPORTED: 05/29/92

METAL	RESULT mg/Kg	REPORTING LIMIT mg/Kg	METHOD
Cadmium	ND	0.25	EPA 6010
Chromium (total)	18.7	0.50	EPA 6010
Nickel	14.7	1.6	EPA 6010
Zinc	13.7	1.0	EPA 6010
Lead	ND	3.0	EPA 7420

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD,%	RECOVERY,%
Cadmium	5	105
Chromium (total)	5	99
Nickel	3	98
Zinc	3	93
Lead	2	95

Curtis & Tompkins, Ltd.

Client: EOA, Inc.

Laboratory Login Number: 107400

Project Name: 3211 Wood Street
Project Number: KX02

Report Date: 28 May 92

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520EF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
107400-001	S1 A,B,C	Soil	15-MAY-92	15-MAY-92	20-MAY-92	190	mg/Kg	50	TR	5349
107400-002	2 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	150	mg/Kg	50	TR	5349
107400-003	3 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	790	mg/Kg	50	TR	5349
107400-004	4 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	760	mg/Kg	50	TR	5349
107400-005	5 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	920	mg/Kg	50	TR	5349
107400-007	SW2	Soil	13-MAY-92	15-MAY-92	20-MAY-92	ND	mg/Kg	50	TR	5349

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: EOA, Inc.
Project Name: 3211 Wood Street
Project Number: KX02

Laboratory Login Number: 107400
Report Date: 28 May 92

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 5349**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	50	mg/Kg	SMWW 17:5520EF	20-MAY-92

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	95%	SMWW 17:5520EF	20-MAY-92
BSD	89%	SMWW 17:5520EF	20-MAY-92

		Control Limits
Average Spike Recovery	92%	80% - 120%
Relative Percent Difference	5.7%	< 20%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/14/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/19/92
DATE REPORTED: 05/28/92

Total Volatile Hydrocarbons as Gasoline in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (ug/L)	REPORTING LIMIT (ug/L)
107400-14	PIT H2O	190	50

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	109

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/14/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/23/92
DATE REPORTED: 05/27/92

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

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT* (ug/L)
107400-14	PIT H2O	**	12,000	50

*Reporting limit applies to all analytes.

** Quantitated as diesel.

QA/QC SUMMARY

RPD, %	147
RECOVERY, %	2
LABORATORY CONTROL SAMPLE	122

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: PIT H2O

DATE SAMPLED: 05/14/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/29/92
DATE REPORTED: 05/29/92

METAL	RESULT ug/L	REPORTING LIMIT ug/L	METHOD
Cadmium	ND	5.0	EPA 6010
Chromium (total)	ND	10.0	EPA 6010
Nickel	80.5	32.0	EPA 6010
Zinc	61.3	20.0	EPA 6010
Lead	23.6	3.0	EPA 7421

QA/QC SUMMARY:

	RPD,%	RECOVERY,%
Cadmium	<1	112
Chromium (total)	1	104
Nickel	<1	102
Zinc	<1	103
Lead	2	105

EOA, INC

Curtis & Tompkins, Ltd
2323 Fifth Street
Berkeley, California 94710
(415) 486-0900

Chain of Custody Form

Samplers: Jim Crowley

Job Description: KX02 - 3211 Wood St.

Job Number: KX02

Client Contact: Jim Crowley 832-2852

Recorder: Jim Crowley

	Matrix: Water	Soil	Waste	Oil	#Containers	Method Preserved: H_2SO_4	HNO_3	Ice	None	Other	Sample Number	Sampling Date: Yr	Mo	Dy	Time	SAMPLE NOTES	Analysis Requested: TPH-D	TPH-G	BTEX	EPA 8240	O&G	Cd, Ni, Pb, Zn, Cr	Total Lead	EPA 8270 for PCBs, PNAs/Creosote, PCP & Dibenzofuran ONLY
-6		X			1				X		SW1	92	05	13		Solvent Tank	X			X				
-7		X			1				X		SW2	92	05	13		Waste oil	X	X		X	X	X		X
-8		X			1				X		SW3	92	05	13		~~[illegible]~~ Gasoline		X	X				X	
-9		X			1				X		SW4	92	05	13		~~[illegible]~~ Diesel	X		X					
-10		X			1				X		SW5	92	05	14		Diesel	X		X					
-11		X			1				X		SW6	92	05	14		Diesel	X		X					
-12		X			1				X		SW7	92	05	14		Diesel	X		X					
-13		X			1				X		SW8	92	05	14		Gasoline		X	X				X	
-14	X				5				3	2	PITH2O	92	05	14		3 VOAS with HCl 2-1L Gbs	X	X		X	X	X		X

Laboratory Notes :

Chain of Custody Record

Relinquished by: (signature) Date/Hr	Received by (signature)
James S. Crowley 11:00 5/15/92.	
Relinquished by: (signature) Date/Hr	Received by (signature)
Relinquished by: (signature) Date/Hr	Received by (signature)
Dispatched by: (signature) Date/Hr	Received for Lab by: (signature) [signature] 5/15/92 1100

EOA/INC

Chain of Custody Form

Curtis & Tompkins, Ltd
2323 Fifth Street
Berkeley, California 94710
(415) 486-0900

Samplers: Jim Crowley

Job Description: KX02 - 3211 Wood St

Job Number: KX02

Client Contact: Jim Crowley 832-2852

Recorder: Jim Crowley

Sample Number	Matrix: Water	Soil	Waste	Oil			# Containers	Method Preserved: H_2SO_4	HNO_3	Ice	None	Other	Sampling Date: Yr	Mo	Dy	Time	SAMPLE NOTES	ANALYSIS REQUESTED: TPH-G	TPH-D	BTEX	EPA 8240	O&G	Cd, Cr, Ni, Pb, Zn	Total Lead	SAIA 8270 for PCB, PCP, PNA, Creosote & Dibenzofuran only
51 (A) & (C)		X					3						92	05	15	1100	Wastes oil/solvent Stockpile	X	X		X	X	X		X
2 (A & B)		X					2						92	05	15	1100	Wet stock pile - Diesel	X	X	X		X		X	
3 (A & B)		X					2						92	05	15	1100	Stockpile - Diesel + Gas	X	X	X		X		X	
4 (A & A)		X					2						92	05	15	1100	↓	X	X	X		X		X	
5 (A & A)		X					2						92	05	15	1100		X	X	X		X		X	

Laboratory Notes: * Composite Samples.

Chain of Custody Record

Relinquished by: (signature) Date/Hr	Received by (signature)
James S. Crowley 11:00 5/19/92	
Relinquished by: (signature) Date/Hr	Received by (signature)
Relinquished by: (signature) Date/Hr	Received by (signature)
Relinquished by: (signature) Date/Hr	Received by (signature)
Dispatched by: (signature) Date/Hr	Received for Lab by (signature) 5/15/92 1100

HERGUTH LABORATORIES, INC.

Jim Crowley
EOA, Inc.
1410 Jackson Street
Oakland, CA 94612

03/12/92
16:28:38
EOAINC

Laboratory : 19644
Description: SAMPLE 1 - SOLVENT

Test Performed	Result
Fourier Transform Infrared Scan, HL-1141	ENCLOSED
Metals by I.C.P. Spectrometry, HL-1158	
Silver (Ag)	<1 ppm
Aluminum (Al)	1 ppm
Boron (B)	<1 ppm
Barium (Ba)	15 ppm
Calcium (Ca)	28 ppm
Chromium (Cr)	<1 ppm
Copper (Cu)	<1 ppm
Iron (Fe)	20 ppm
Magnesium (Mg)	4 ppm
Molybdenum (Mo)	<1 ppm
Sodium (Na)	<1 ppm
Nickel (Ni)	<1 ppm
Phosphorous (P)	103 ppm
Lead (Pb)	152 ppm
Silicon (Si)	4 ppm
Tin (Sn)	5 ppm
Vanadium (V)	<1 ppm
Zinc (Zn)	49 ppm

Respectfully submitted,
Herguth Laboratories, Inc.

By Patrick Howell

PH:mk

101 Corporate Place · P.O. Box B · Vallejo, California 94590
800-645-5227 · 707-554-4611 · FAX 707-554-0109

HERGUTH LABORATORIES, INC.

Jim Crowley
EOA, Inc.
1410 Jackson Street
Oakland, CA 94612

03/12/92
16:26:30
EOAINC

Laboratory : 19645
Description: SAMPLE 2 - OIL

Test Performed	Result
Viscosity @ 40 deg C, ASTM D445-88.....	127.11 cSt
Fourier Transform Infrared Scan, HL-1141	ENCLOSED
Metals by I.C.P. Spectrometry, HL-1158	
Silver (Ag).....	<1 ppm
Aluminum (Al).....	<1 ppm
Boron (B).....	<1 ppm
Barium (Ba).....	450 ppm
Calcium (Ca).....	225 ppm
Chromium (Cr).....	<1 ppm
Copper (Cu).....	1 ppm
Iron (Fe).....	9 ppm
Magnesium (Mg).....	<1 ppm
Molybdenum (Mo).....	<1 ppm
Sodium (Na).....	9 ppm
Nickel (Ni).....	<1 ppm
Phosphorous (P).....	237 ppm
Lead (Pb).....	30 ppm
Silicon (Si).....	6 ppm
Tin (Sn).....	<1 ppm
Vanadium (V).....	<1 ppm
Zinc (Zn).....	330 ppm

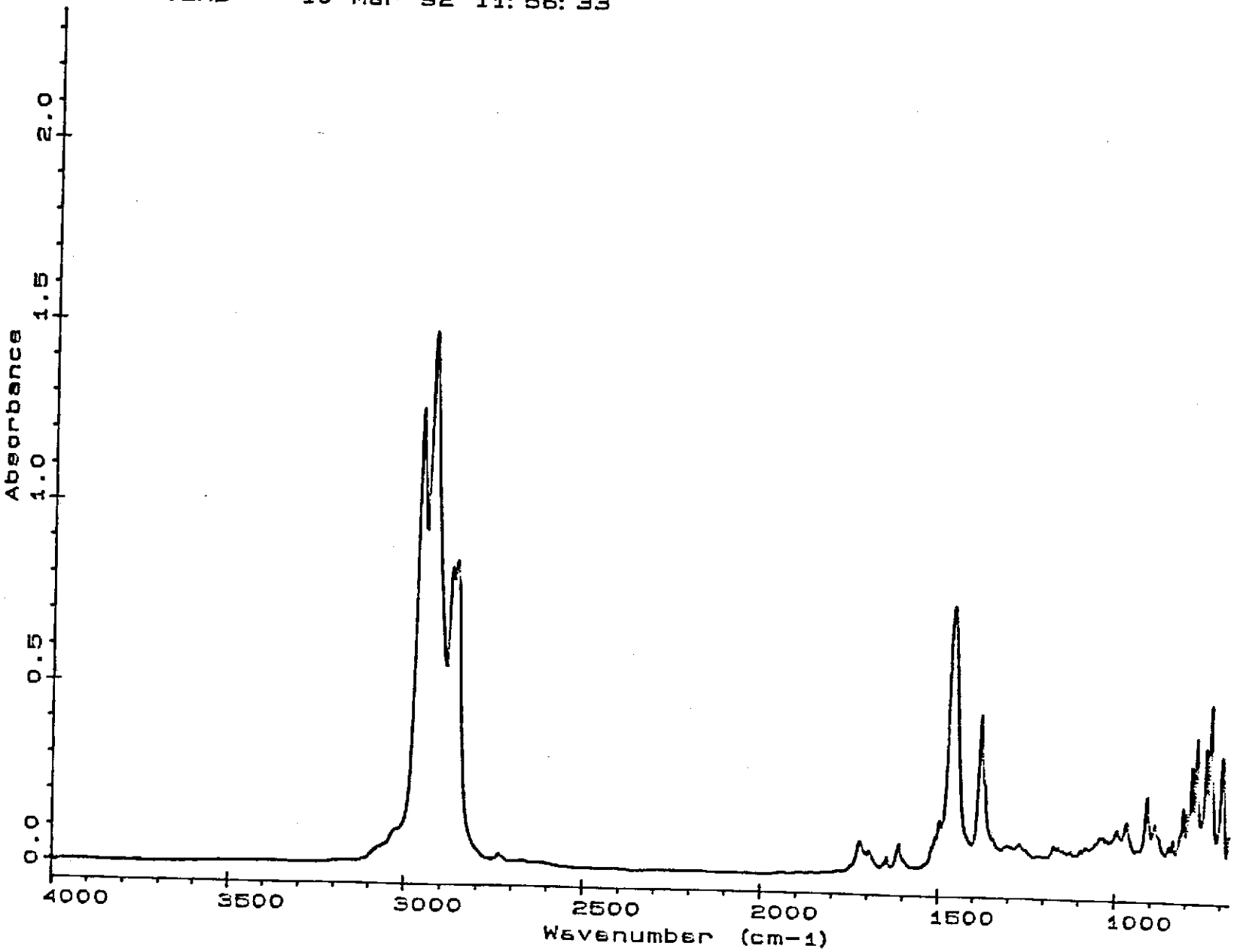
Respectfully submitted,
Herguth Laboratories, Inc.

By Patrick Howell

PH:mk

101 Corporate Place · P.O. Box B · Vallejo, California 94590
800-645-5227 · 707-554-4611 · FAX 707-554-0109

Herguth Laboratories, Inc.
101 CORPORATE PLACE · P.O. BOX B · VALLEJO, CALIFORNIA 94590



Herguth Laboratories, Inc.
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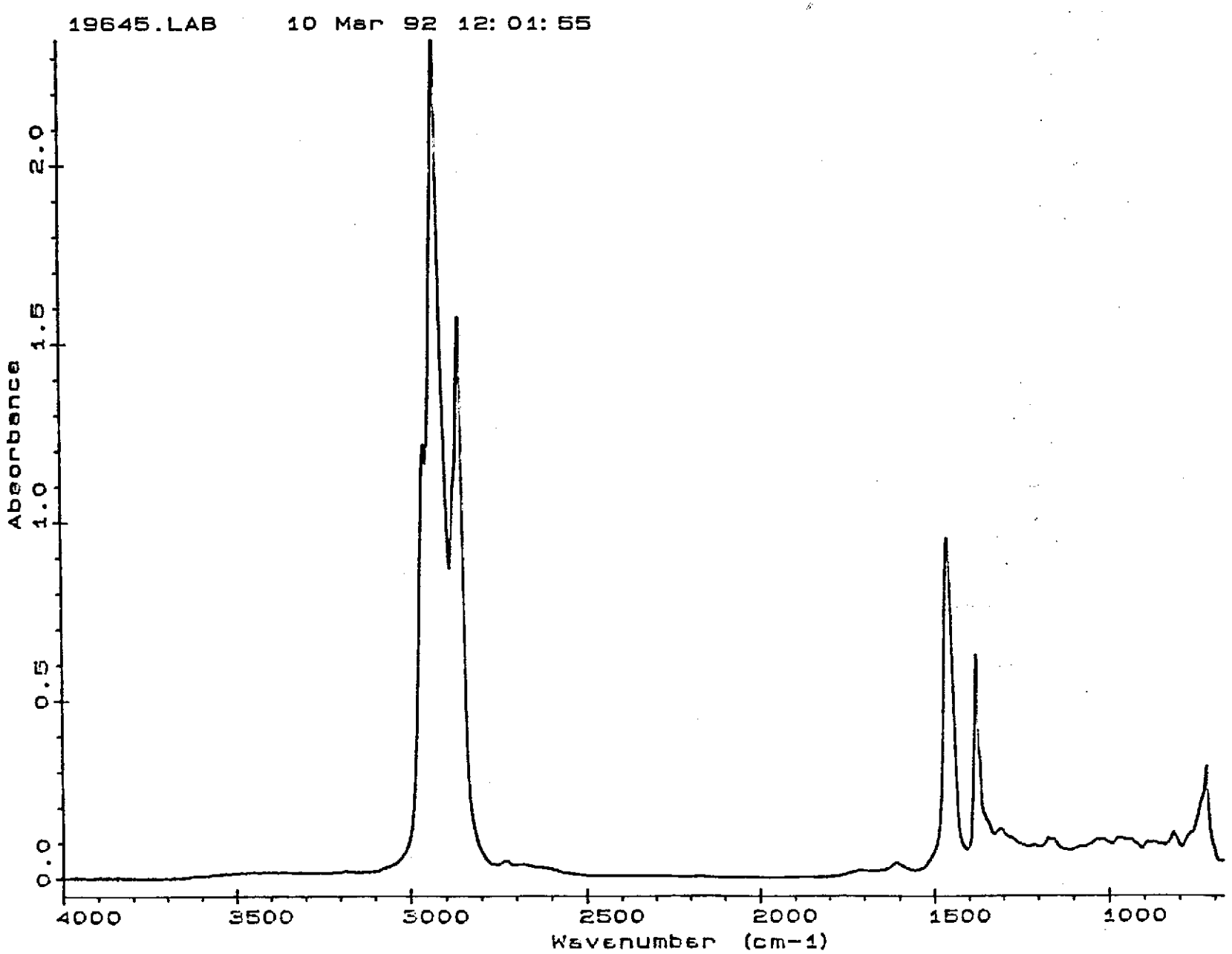
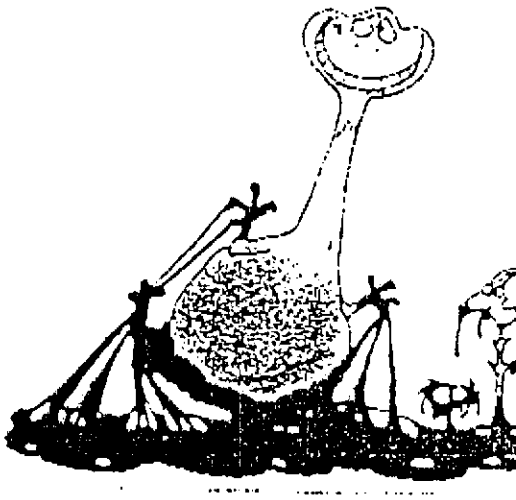


Herguth Laboratories, Inc.



FACSIMILE COVER LETTER

DATE: 4/9/92

TIME: 1530

DELIVER TO: Dan Isenberg

NUMBER DIALED: 510-832-2856

NUMBER OF PAGES: 5
(INCLUDES COVER LETTER)

TRANSMITTED FROM:
707-554-0109
Herguth Laboratories, Inc.
101 Corporate Place
Vallejo, CA 94590

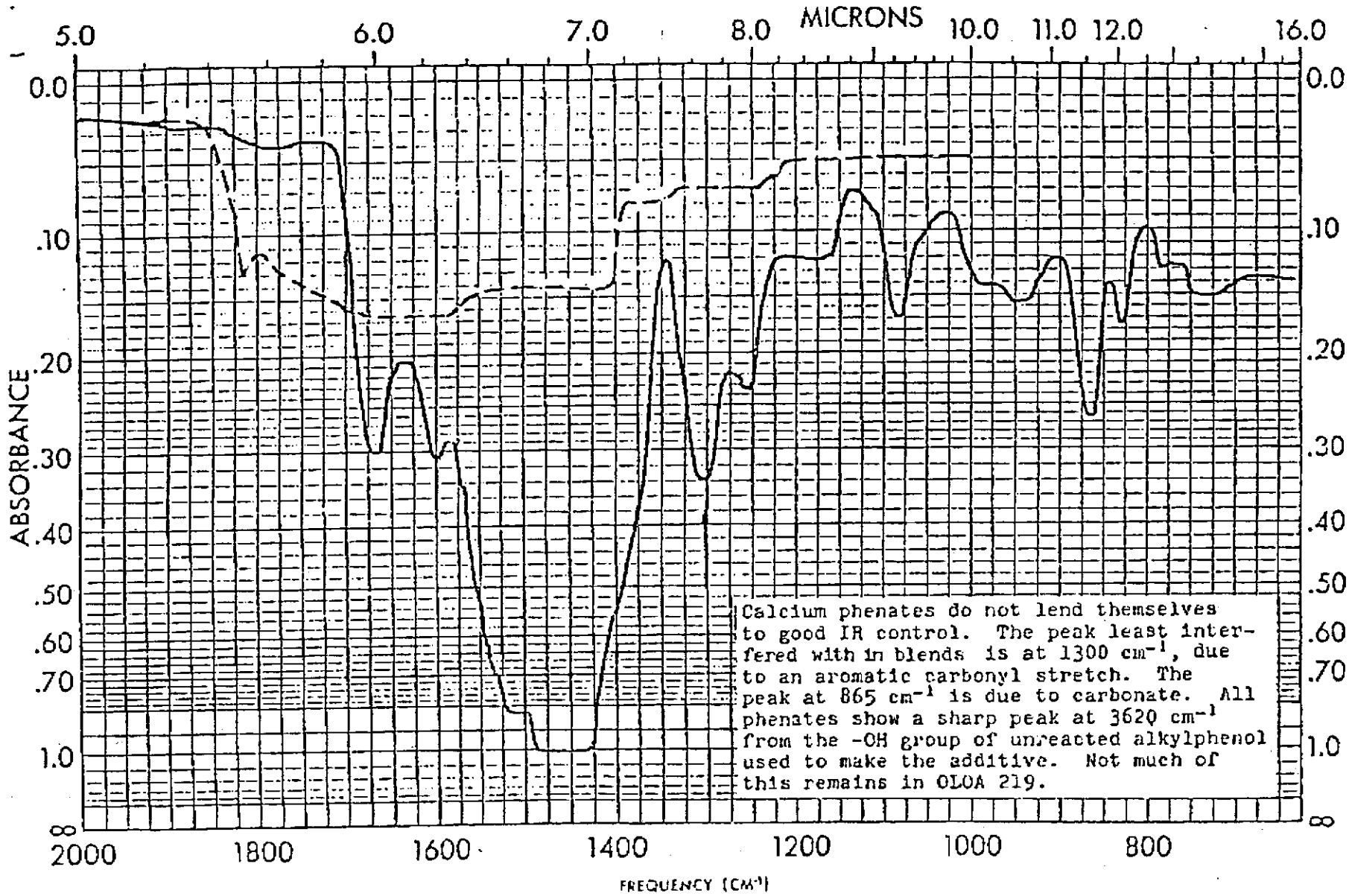
NAME OF PERSON SENDING: Dennis Kelley

NOTE: If you do not receive all of the pages indicated above, please call the following number and ask for the person who sent it.

707-554-4611

We checked the Flash Pt. on the Solvent sample and it was < 70°F. The closest substance we could match it to is Paint Thinner.

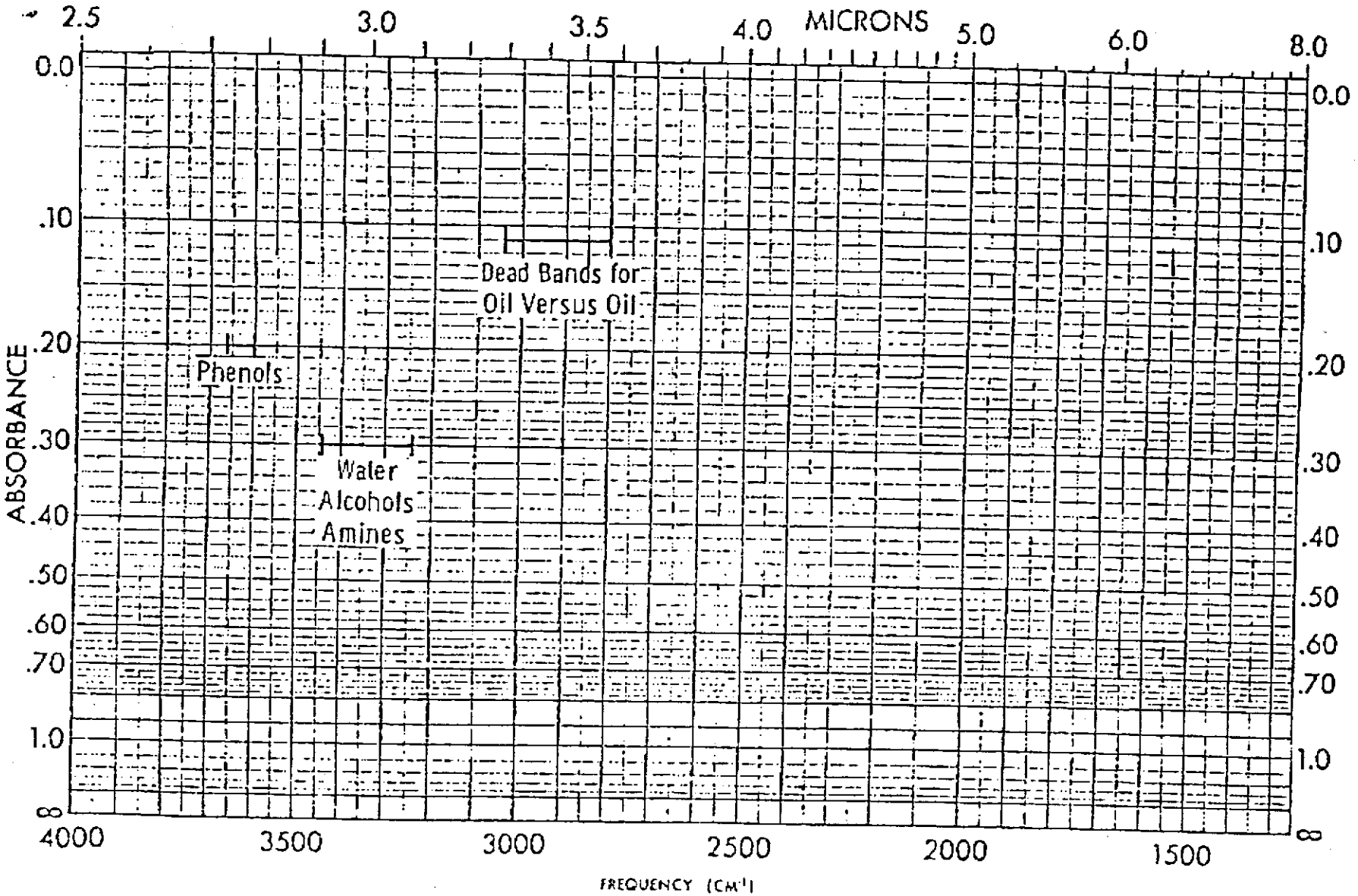
DK.



SAMPLE OLOA 218	CURVE NO. 27	SCAN SPEED FAST	OPERATOR
	CONC. 8.65 Mass %	SLIT 5	DATE 7-14-66
ORIGIN LCM 1285	CELL PATH 0.18 MM	REMARKS FOR DOTTED CURVE, READ	
SOLVENT CIT-CON 100 NEUTRAL	REFERENCE CIT-CON 100 NEUTRAL	FREQUENCY (CM^{-1}) X 2	

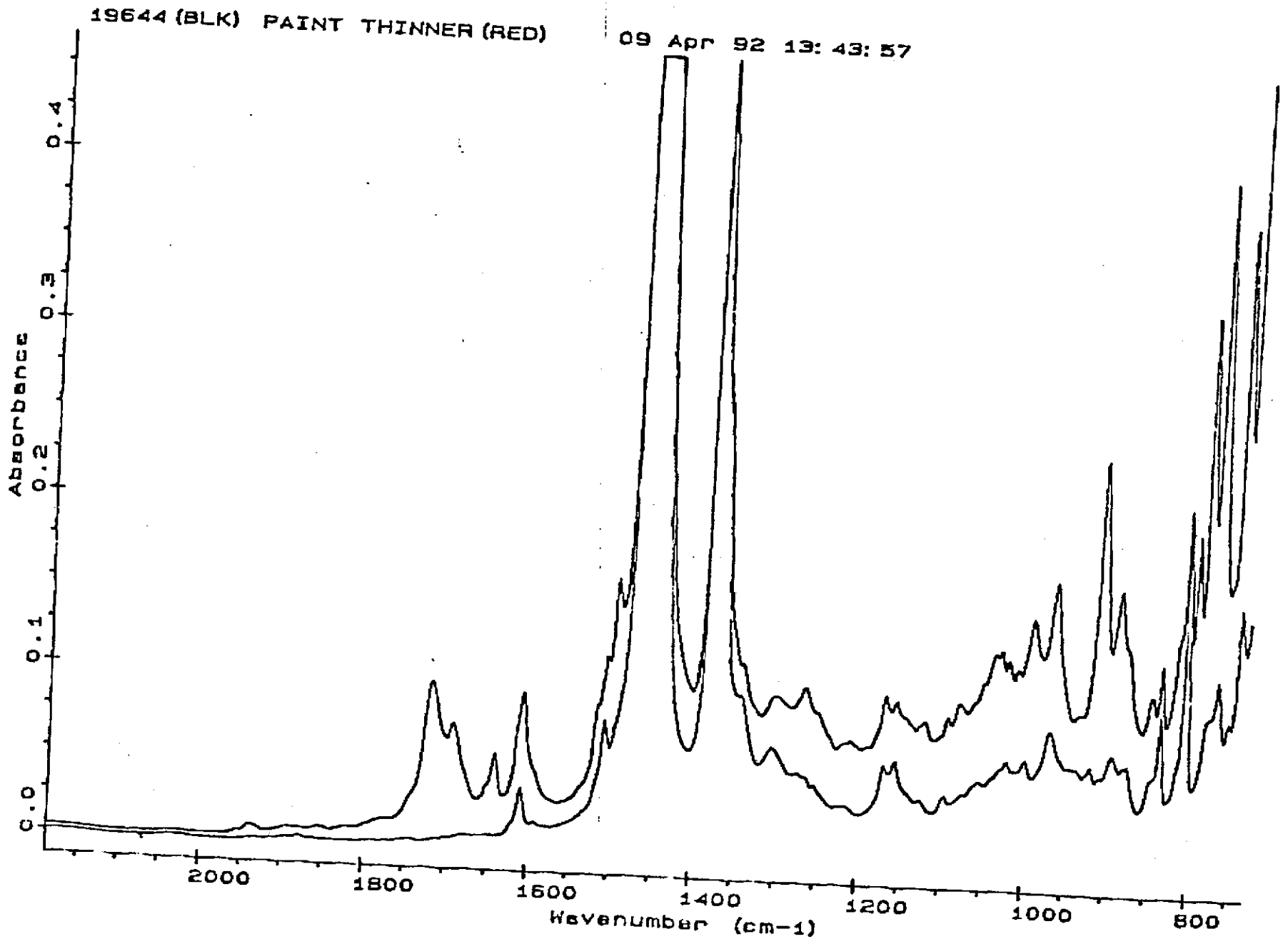
FIGURE 6

WHERE COMPOUNDS ABSORB - HIGH RANGE

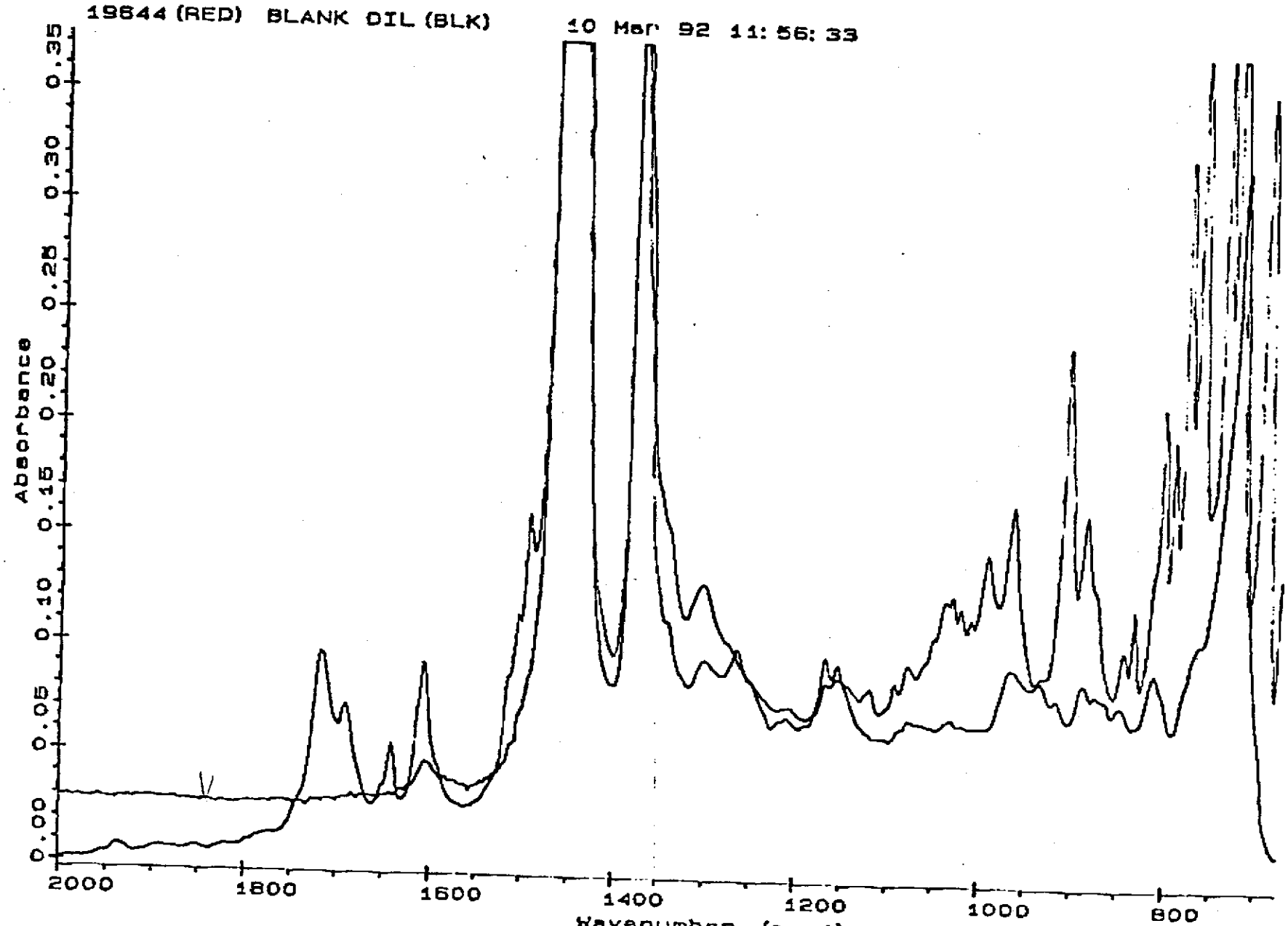


SAMPLE	CURVE NO.	SCAN SPEED	OPERATOR
	CONC.	SLIT	DATE
ORIGIN	CELL PATH	REMARKS	
SOLVENT	REFERENCE		

Herguth Laboratories, Inc.
101 CORPORATE PLACE - P.O. BOX B - VALLEJO, CALIFORNIA 94590



Herguth Laboratories, Inc.
101 CORPORATE PLACE - P.O. BOX 8 - VALLEJO, CALIFORNIA 94590



COGNIS
A Company for Biological and Environmental Technology

Jim Crowley
EOA Inc.
1410 Jackson Street
Oakland CA, 94612

April 27, 1992

Subject: Chemical analysis.

Introduction: At your request infrared and NMR analyses were done on sample KXO2 received on April 22. The sample is identified as COGNIS 92A-0122.

Results: Infrared and NMR identify the top layer as a mixture of aliphatic and aromatic hydrocarbon. There is evidence for some unsaturation in the aliphatic hydrocarbon. Infrared analysis indicates the bottom layer is water. There is no infrared or NMR evidence for chlorinated material.

Instrumentation: Infrared spectra were obtained using a Digilab FTS-60 infrared system. NMR analysis was done using a Varian Gemini 200 MHz Nuclear Magnetic Resonance spectrometer.

Details: Both the top and bottom layers were analyzed by infrared as thin films between NaCl plates. A portion of the top layer was analyzed by NMR in deuterated methylene chloride.

Future Work: At additional cost chain length of the aliphatic hydrocarbon can be determined.

If you have any questions please call me at (707) 576-6270.

John Mahlberg
Project Manager

Tom Miller, Ph.D.
Director, Analytical Technology

COGNIS, Inc. • 2330 Circadian Way • Santa Rosa, CA 95407
(707) 575-7155 • Fax: (707) 575-7833

EOA, Inc.

Eisenberg, Olivieri, & Associates
Environmental and Public Health Engineers
1410 Jackson Street, Oakland, CA 94612 (415) 832-2852

Project ID: KX02 Sampled By: Jim Crowley

Sampling Date: 4/22/92 Laboratory Name: CoGNIS

NOTES TO LAB
a) Specify analytic method and detection limit.
b) Notify us if there are any anomalous peaks on GC or other scans.
c) Duplicates are listed in parentheses.
d) ANY QUESTIONS/CALIFICATIONS: CALL US

Sample ID	Sampling Date	Sample/ Container Type (1)	Analyze/ Hold (2)	Turn-around (3)	Analyze For:	Analytic Method/ Detection Limit	Comments
KX02	4/22/92	500ml.	A	N	IR & NMR.		Try to identify Solvent: Chlorinated or Non-Chlorinated Chain length (etc).

James S Crowley 4/22/92 12:15pm.
C. Released By (Signature), Date, Time

D. Released By (Signature), Date, Time

4/22/92 12:57pm
A. Received By (Signature), Date, Time

B. Received By (Signature), Date, Time

Received By Lab Personnel, Date, Time | Lab Telephone | Shipping Carrier, Method, Date

(1) – Sample Type Codes: W = Water, S = Soil, O = Other (specify).
Container Type Codes: V = VOA Bottle, P = Plastic Bottle, G = Glass Bottle, T = Brass Tube, O = Other (specify)

(2) – Analyze/Hold: A = Analyze, HOLD (spell out) = Do not analyze unless necessary or requested.

(3) – Turnaround: N = Normal turnaround, F = 1 week turnaround, R = 24 hour turnaround.

ATTACHMENT C

Copies of "TSDF to Generator" Manifests

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

78573

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000680976 Manifest Document No. 78302
2. Page 1 of 1: 0 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: HENRIETTA LARSON, 5601 LEONA ST, OAKLAND CA. 94605
4. Generator's Phone: 510 5317470

A. State Manifest Document Number: 90792707
B. State Generator's ID: HAHQ36 05 3719

5. Transporter 1 Company Name: ERICKSON TRUCKING INC.
6. US EPA ID Number: CAD00946392
C. State Transporter's ID: 305 1601
D. Transporter's Phone: 415-235-1393

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

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

10. US EPA ID Number: CAD009466392
G. State Facility's ID
H. Facility's Phone: ~~(415)~~ 510 (SD) 235-1393

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.	004	TP	17000	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. 4 Empty Storage Tank (s) 8702, 8703, 8704, 8705, ______. Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity.

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

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name JANE REUTE & Phone 510-475 2901

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: HENRIETTA LARSON | Signature: Henrietta Larson | Month Day Year: ~~090391~~ S.D.

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOHN DOUGLASS | Signature: John Douglass | Month Day Year: ~~090391~~ S.D.

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

19. Discrepancy Indication Space
-Spoke with Don Rosson of Erickson, made same date correction on other manifest copies. Sean T. Delaney

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

GENERATOR / TRANSPORTER / FACILITY

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

90792707

DHS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

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

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000680976
Manifest Document No.: 18363
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 90661396

3. Generator's Name and Mailing Address: Henrietta Larson (as life tenant) 5601 Leona St., Oakland, CA 94605
4. Generator's Phone: 510 531-7470
B. State Generator's ID

5. Transporter 1 Company Name: Paul Graham Drilling & Service Co.
6. US EPA ID Number: CAD981840374
C. State Transporter's ID: 308919
D. Transporter's Phone: (707) 374-5123
7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: PRC Patterson, 13331 N. Hwy 33, Patterson, CA 95363
10. US EPA ID Number: CAD083466728
G. State Facility's ID
H. Facility's Phone: (209) 892-6742

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Rinsate: Non-RCRA Hazardous Waste Liquid	001	TT	1400	G	State 223 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
24 hr Emergency Contact: PRC: 1-800-874-4444
24 hr Emergency Response: ChemTel, Inc. 1-800-255-3924
Wear Appropriate Personal Protective Equipment
Site Address: 3211 Wood St. Oakland, CA

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month Day Year
Ms Henrietta Larson	Henrietta Larson	051492

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Bill Carter	Bill Carter	051492

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

GENERATOR / TRANSPORTER / FACILITY

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

90661396

DHS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

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

Department of Health Services
Toxic Substances Control Division
Sacramento, California

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

88236350

UNIFORM HAZARDOUS WASTE MANIFEST

GENERATOR

1. Generator's US EPA ID No.: CAC000609748 — Manifest Document No.: 7131
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Henrietta Larson (as life tenant) 5601 Leona St, Oakland CA 94605
4. Generator's Phone (510) 531-7470

A. State Manifest Document Number: 88236350
B. State Generator's ID: HAHQ3160KB7119

5. Transporter 1 Company Name: PRC Patterson
6. US EPA ID Number: CAD981616M20
C. State Transporter's ID: 20622
D. Transporter's Phone: 1-(510)-574-4444

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

9. Designated Facility Name and Site Address: Environmental Services PRC Patterson, Rest Henry Hwy 33, Patterson, CA 95363
10. US EPA ID Number: CAD033166728
G. State Facility's ID
H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non RCRA Hazardous Waste Liquid	001	TP	01800	G	State 223 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above: Oil, Gasoline, Water, Sewage

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

15. Special Handling Instructions and Additional Information
Avoid Contact, wear appropriate clothing and equipment
Site Adress: 3211 Wood St. Oakland CA 94608
Generator 24 hour Emergency Ph number (510) 475-2501

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: HENRIETTA LARSON — Signature: Henrietta Larson — Month Day Year: [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jerome R Voss — Signature: [signature] — Month Day Year: [illegible]

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

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

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

EOA, Inc.

Eisenberg, Olivieri, & Associates
Environmental and Public Health Engineering

April 7, 1992

Susan Hugo
Alameda County
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

RE: Underground Tank Closure Plan for 4 UST's at 3211 Wood St. in Oakland.

Dear Susan:

Please find enclosed the completed Underground Tank Closure Plan for 3211 Wood Street in Oakland, and a deposit check in the amount of $1,137.00. Henrietta Larson is life tenant to the property, and has undertaken to remove the four underground tanks. Ms. Larson's previous tenant, General Transportation, last operated the underground storage tanks. As we discussed yesterday, we have limited information on the site. The installation date of the tanks is unknown but is estimated circa 1950. General Transportation reports that the two large tanks were tested in 1985, and showed no evidence of leaks. Ms. Larson has contracted with Decon Environmental Services for the removal of the tanks. EOA, Inc. is acting as consultant to Mrs. Larson in developing the workplan and documenting closure activities. All correspondence regarding the closure plan should be directed towards EOA, Inc.

From our conversation, we expect that the closure plan review will take up to 2-3 weeks, and we have tentatively scheduled the tank removal to begin the week of May 4th. We request that the review process be expedited to whatever extent possible, because under Ms. Larson's lease arrangment with the present tenant, there are financial implications associated with delays in closing the tanks. If you anticipate any delays with the review or if you require additional information, please contact either myself or Mr. Ray Goebel at (510) 832-2852.

Very truly yours,
EOA, Inc

Jim Crowley
Environmental Engineer

F:\KX02\AL-CO.LTR (JSC)

Project Specialist (print) *Susan L. Hugo*

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

ACCEPTED
DEPARTMENT OF ENVIRONMENTAL HEALTH

✓ Removal of Tank and Piping
Sampling
Final Inspection

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Please make change made on page 5. Susan L. Hugo 5/4/92

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

FORMERLY GENERAL TRANSPORTATION

1. **Business Name** (Tanks last used by Mrs. Larson's previous tenants, ("GENERAL TRANSPORTATION")

   Business Owner N/C

2. **Site Address** 3211 Wood Street

   City Oakland **Zip** 94608 **Phone** ______

3. **Mailing Address** 5601 Leona Street

   City Oakland **Zip** 94605 **Phone** (510) 531-7470

4. **Land Owner** Henrietta Larson (as life tenant)

   Address 5601 Leona Street **City, State** Oakland, CA **Zip** 94605

5. **Generator name under which tank will be manifested**

   Henrietta Larson

   EPA I.D. No. under which tank will be manifested CAC00680976

rev 12/90

** need to submit forms A & B*

6. Contractor Decon Environmental Services Inc.

Address 26102 Eden Landing Road, Suite 4

City Hayward, CA 94545 Phone (510) 732-6444

License Type A & HAZ ID# 545726

7. Consultant EOA, Inc.

Address 1410 Jackson Street

City Oakland, CA 94612 Phone (510) 832-2852

8. Contact Person for Investigation

Name Ray Goebel Title Senior Engineer

Phone 832-2852

9. Number of tanks being closed under this plan 4

Length of piping being removed under this plan 60' est.

Total number of tanks at facility 4

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name PRC Refineries Services EPA I.D. No. CAD083166728

Hauler License No. 2591 License Exp. Date 3/31/93

Address 13331 N. Hwy 33

City Patterson State CA Zip 95363

b) Product/Residual Sludge/Rinsate Disposal Site

Name PRC Refineries Services EPA I.D. No. CAD083166728

Address 13331 N. Hwy 33

City Patterson State CA Zip 95363

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Hauler License No. 0019 License Exp. Date 5/31/92

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Address 255 Par Blvd.

City Richmond State Ca Zip 94801

11. Experienced Sample Collector

Name Jim Crowley

Company EOA, Inc.

Address 1410 Jackson Street

City Oakland State CA Zip 94612 Phone (510) 832-2852

12. Laboratory

Name Curtis & Tompkins, Ltd.

Address 2323 Fifth Street

City Oakland State Ca Zip 94710

State Certification No. #159

13. Have tanks or pipes leaked in the past? Yes [ ] No [X]

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

Cleaning; Rinsing; Dry Ice; Disconnections of pipes; capping pipes, in accordance with fire department and BAAQMD Regulations.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. **It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.**

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, groundwater, etc.)	Location and Depth of Samples
Capacity (gals)	Use History (see instructions)		
10,000	Diesel-Installation date Unknown*	Soil*	One soil sample from beneath each each end of tank, at least 1 foot into natural soils
8,000	Gasoline- Installation Date unknown*	Soil*	
250-est.	Degreasing Solvent- Installation date unknown*	Tank contents Soil*	One soil sample from beneath center of each tank, at least 1 foot into natural soils.
250-est.	Waste oil -Installation Date unknown*	Soil*	Soil samples willalso be collected along piping.- Samples to be taken from sidewalls of excavation if groundwater is encountered.
	*installation date C. 1950	*Groundwater will be sampled if groundwater is encountered	

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) Up to 200 yd^3 stockpiled temporarily	Sampling Plan 1. Soil suspected of being contaminated (on the basis of odor, appearance, and instrument readings) will be stockpiled and analyzed for appropriate constituents as required for proper disposal. 2. Clean soil will be stockpiled temporarily and used for backfill. Clean Soil must be Verified by analytical result from a State Certified Lab

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

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

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

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
			Soil-PPM
TPH-G	EPA 5020	EPA 8015	0-3 1. ppm
TPH-D	EPA 3550	EPA 8015	1
BTEX	EPA 5030	EPA 8020	0.005
Volatile Organics	EPA 5030	EPA 8240	0.002-0.020
O & G CAM	SMWW17: 5520 E & F	8240	50
Metals			0.1
Cd			1
Cr			1
Pb	EPA 3050	EPA 6010	1
Zn			1
Ni			1
Semi-Volatile Organics			
PCB			1.65
PCP			1.65
PNA	EPA 3550	EPA 8270	0.05
Cresote			0.05
Dibenzofuran			0.33

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Fund (Copy Attached)

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. **Report any leaks or contamination to this office within 5 days of discovery.** The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) Sean T. Delaney

Signature Sean T. Delaney

Date 4/6/92

Signature of Site Owner or Operator

Name (please type) Henrietta Larson

Signature Henrietta Larson

Date April 2, 1992

rev 12/90

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
Acknowledgement of Refund Recipient for Site Account

DEPOSITOR FILLS OUT PER SITE
-- REQUIRED --

The depositor will use this form to acknowledge that the property owner or his or her designee will receive any refund due at the completion of all deposit/refund projects at the site listed below.

SITE NUMBER/ADDRESS:

3211 Wood
Site Number

N/A
Company Name

Street Address

City Zip Code

REFUND RECIPIENT-PROPERTY OWNER

Henrietta Larson
Owner's Name

5601 Leona Street
Owner's Address

Oakland CA 94605
Owner's City State Zip

I have read the description of the project Deposit/Refund Procedure, and have had an opportunity to ask questions about it. I understand that regardless of who deposits money into the site account, any deposit money remaining at the completion of all projects being conducted at this site will be refunded solely to the property owner or his or her designee.

Henrietta Larson
Signature of Depositor

April 2, 1992
Date

Henrietta Larson
Depositor Name

(see above)
Company Name

Street Address

City / Zip

RETURN FORM TO: Alameda County, Hazardous Materials Div.
80 Swan Way, Rm 200
Oakland, CA 94621-1439
Phone: (510) 271-4320

DR-ACKN; mfk; 8/14/91

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
Declaration of Site Account Refund Recipient

SITE OWNER FILLS OUT PER SITE
-- OPTIONAL --

The property owner will use this form to designate someone other than him- or her- self to receive any refund due at the completion of all deposit/refund projects at the site listed below. In the absence of this form, the property owner will receive any refund. Only one person at any one time may be designated to receive any refund.

SITE NUMBER/ADDRESS:

Site Number

Company Name

Street Address

City Zip Code

PROPERTY OWNER

Owner's Name

Owner's Address

Owner's City State Zip

I designate the following person to receive any refund due at the completion of all deposit/refund projects:

Name

Street Address

City / Zip

Property Owner Signature

Date

Property Owner Name

RETURN FORM TO: Alameda County, Hazardous Materials Div.
80 Swan Way, Rm 200
Oakland, CA 94621-1439
Phone: (510) 271-4320

DR-DECL; mfk; 8/14/91

RECEIVED MAR 9 1992

STATE COMPENSATION INSURANCE FUND

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

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

MARCH 4, 1992

POLICY NUMBER: 430-91 UNIT 0000026
CERTIFICATE EXPIRES: 10-1-92

For Information Purposes Only

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ten days' advance written notice to the employer.

We will also give you TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

John A. Klett
PRESIDENT

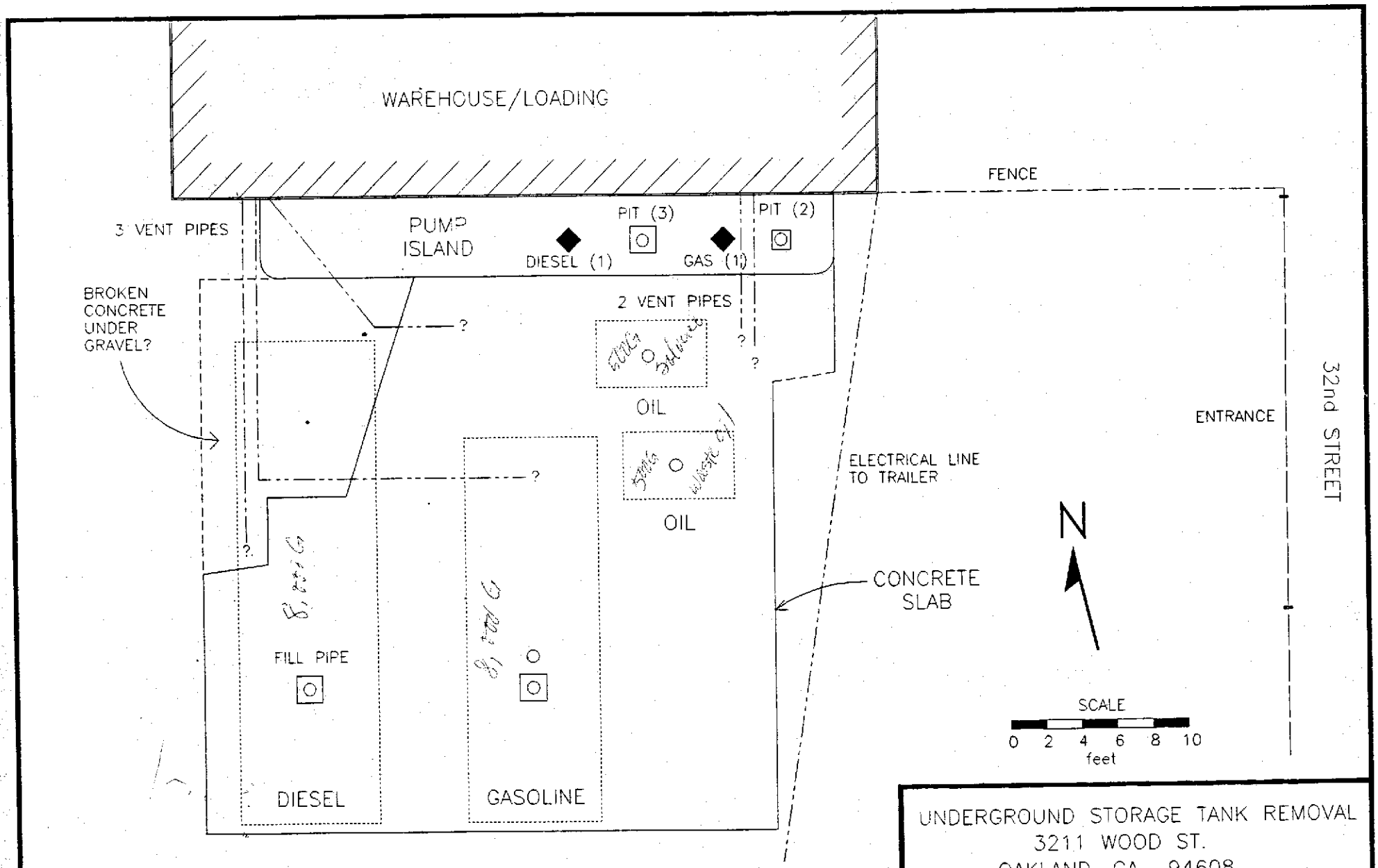
EMPLOYER

DECON ENVIRONMENTAL SERVICES INC
26102 EDEN LANDING #4
HAYWARD CA 94545

SCIF 10262 (REV. 10-86)

COPY FOR INSURED'S FILE

OLD 262A



NOTES:
LOCATION OF TANKS IS INFERRED FROM SURFACE FEATURES. ACTUAL LOCATION MAY DIFFER.
(1) KNOWN LOCATIONS OF FORMER DISPENSERS.
(2) PIT FILLED WITH CONCRETE, WITH VERTICAL PIPE. PROBABLE LOCATION OF FORMER DISPENSER.
(3) PIT WITH VERTICAL PIPE. POSSIBLE LOCATION OF FORMER DISPENER.
(4) DEPTH TO GROUNDWATER UNKNOWN

UNDERGROUND STORAGE TANK REMOVAL
3211 WOOD ST.
OAKLAND, CA 94608

EOA, Inc.	KX02PLAN.SKD DRAWN BY: RG	REV: 0 12/23/91	PLATE

Site Safety Plan

DRAFT

Background Information:
Project Name: (EOA, Inc.)
Job Number:
Project Manager: Sean T. Delaney
Client Contact: Ray Goebel
Site Name: General Transportation Facility
Site Address: 3211 Wood Street Oakland, California
Overall Objective of Site Work: Removal of four underground storage tanks
Proposed Date of Site Work: To be determined
Source of Site Information: Site visit and project specification provided by EOA, Inc.
Will Site Officials Accompany Work Personnel: Yes
Work Time Limitations:
Warning for Site Evacuation: Verbal

Site Description:
Current Status: Transportation
Prior Status: Same
Materials Handled, Disposed, or Stored: Gasoline, diesel and waste oil
Potential Degradation Products: Petroleum hydrocarbons
Industrial Processes/Procedures: Fuel storage

Potential Environmental Hazards:

Gasoline or diesel may release vvolatile components to the atmosphere. Benzene and toluene are Proposition 65 chemicals. May cause groundwater contamination if it percolates to groundwater.

Potential Worker Hazards:

Exposure to gasoline or diesel. Will cause eye and skin irritation if splashed. Inhalation of vapors causes dizziness or nausea. Chronic effects may include liver and kidney damage. Benzene component is carcinogenic.

Exposure Limits:

8-hour time weighted average (TWA)
Gasoline - 300 ppm (TLV)
Benzene - 1 ppm (PEL)
Toluene/xylene/ethylbenzene - 100 ppm (PEL)

Potential Physical Hazards Onsite:

Those common to construction. Be careful of slips, trips and falls. Use caution working around heavy equipment.

Overall Hazard Estimation:

Required Personal Protective Equipment (optional as noted)

The following levels of personal protection have been designated:
(NOTE: No eating, drinking or smoking is allowed in work areas)

Level of Protection:

Level "D" - Hardhat, safety glasses, white tyvek, safety shoes, neoprene gloves (inside excavation).

Level "C" - Same as "D" plus 1/2 face APR w/OV cartridges.

Location(s) to be used: At construction site

When to use: All people must wear Level D protection whether working or visiting the site.

Personal Decontamination:

All personnel shall doff protective clothing before exiting the exclusion zone. Personnel shall wash face and hands before taking breaks or eating.

Disposal of Contaminated Materials or Equipment:

Contaminated gloves and equipment shall be washed in soapy water. Contaminated soil will be stockpiled and disposed of to appropriate TSDF. Underground tanks will be manifested and transported to Erickson, Inc.

Monitoring

1. Direct Reading Monitoring Equipment (e.g., Draeger tubes, HNu):

   Equipment: HNu (or similar)

   Location to be used: Employee Breathing Zone

   When to use: During excavation work inside trenches every 15 minutes/every 60 minutes if no active excavation is occurring.

2. Action Levels for Monitoring Results:

   Equipment: HNu

   Action Level: 5 ppm

   Action (type and duration): Go to Level "C"

   If 5 ppm level is exceeded, benzene Draeger tubes shall be used to evaluate presence of contaminant.

3. Medical Monitoring:

DECON employees undergo rigorous medical screening and monitoring. Records available upon request.

4. Fire Protection:

At least two 20 pound ABC extinguishers will be stationed adjacent to the excavation.

ONSITE ORGANIZATION AND COORDINATION

General

The following personnel are designed to carry out the stated job functions onsite:

Project Team Leader: Sean T. Delaney

Site Safety Officer: Tom Reese

Contractors onsite (state function):

DECON Environmental Services, Inc. - Tank excavation, cleaning and removal

Government Agency Representatives:

Alameda County Health Department, Oakland Building Inspectors and possibly Bay Area Air Quality Management District.

Site Access Control

Work area and contaminated stockpile area will be enclosed within temporary chain link fencing. Temporary fencing consists of 12' long by 8' high chain link panels that link together. The site will be secured at the end of each work day. Stockpiled soil will be placed in an asphalt area on 10 millimeter visqueen and covered with 6 millimeter visqueen.

EMERGENCY MEDICAL CARE AND PROCEDURES

Nearest emergency medical facility:
(see attached map)

Facility Name: Providence

Address: 3100 Summit, Oakland

Telephone: (510) 874-8012

Emergency Telephone Numbers:

Fire: 911

Police: 911

Ambulance: 911

Hotline (e.g., Poison Control Center): (415) 666-2845

Emergency First Aid for Substances Present:

Substance	Exposure Symptoms	First Aid
Gasoline	Nausea, dizziness	Take affected person to fresh air
	Eye Splash	Rinse with fresh water for 15 min.-take to doctor if irritation continues
	Ingestion	Do not induce vomiting - contact doctor

First Aid Equipment Onsite:

Equipment	Location
First Aid Kit	Adjacent to Excavation
Fire Extinguisher	Adjacent to Excavation
Emergency Eye Wash	Adjacent to Excavation

Onsite Emergency Procedures:

1. Personal injury or illness: Administer first aid; call ambulance if necessary; transport to

2. Fire or Explosion: Turn off all motorized equipment; evacuate working area; meet at designated upwind location.

3. Earthquake: Turn off all motorized equipment; evacuate working area; meet at designated upwind location.

4. Hazardous Material Spill or Release: Turn off all motorized equipment; evacuate work area in an upwind direction of the spill or release; meet at designated upwind location.

5. Personal Protective Equipment Failure: If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the Exclusion Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

6. Other Equipment Failure: If any other equipment onsite fails to operate properly, the project team leader and site safety officer shall be notified and then shall determine the effect of this failure on continuing operations onsite. If the failure affects the safety of personnel or prevents completion of the work plan tasks, all personnel shall leave the Exclusion Zone until the situation is evaluated and appropriate actions taken.

Prepared By: _____ _____
Date

Reviewed By: _____ _____
Date

Approved By: _____ _____
Date

DRAFT

Onsite Personnel

I have read and reviewed this Site Safety Plan and will comply with the requirements stated herein and directions from the site safety officers.

Name	Signature

EOA, Inc.

Eisenberg, Olivieri, & Associates
Environmental and Public Health Engineering

December 18, 1992

Ms. Henrietta Larson
5601 Leona Street
Oakland, CA 94605

Re: Soil Disposal From Underground Tank Removal, 3211 Wood St., Oakland, CA

Dear Ms. Larson:

The purpose of this letter report is to document activities related to the sampling, analysis, characterization, and disposal of soil that was excavated during underground storage tank removal activities in May 1992 at 3211 Wood St., Oakland, California. An estimated quantity of approximately 180 cubic yards of petroleum hydrocarbon-containing soil from the removal was stockpiled on plastic sheeting in two piles which were then also covered with plastic sheeting. Approximately 20 yards of soil was collected and stockpiled from the vicinity of Tanks 3 and 4, that held waste oil and solvent, respectively. Approximately 160 yards of soil was collected and stockpiled from the vicinity of Tanks 1 and 2 that held diesel and leaded gasoline, respectively. The removal of tanks was documented in the **Report of UST Closure Activities** (EOA, June 1992).

Soil Sampling and Laboratory Analysis

The soil stockpiles were sampled on May 15, 1992. Three discrete samples were collected from the small stockpile and eight discrete samples were collected from the larger stockpile. Samples were collected by driving stainless steel tubes into the soil at depths between 12 inches and 36 inches below the surface. The tubes were labeled, sealed with teflon tape, capped with plastic caps, then sealed with non-adhesive tape. The samples were placed in cold storage and transported under chain-of-custody to Curtis and Tompkins, a California State Certified Analytical Laboratory. The samples were composited into one sample per 25 yards, 5 samples total. The samples were analyzed for volatile organic compounds, pentachlorophenol (PCP), polychlorinated biphenyls (PCBs), dibenzofuran, polynuclear aromatic hydrocarbons (PAHs), petroleum hydrocarbons (characterized as kerosene or diesel or gasoline), aromatic hydrocarbons (benzene, toluene, ethylbenzene, and total xylenes), selected metals (Cd, Cr, Ni, Zn, and Pb), and oil and grease. Results of the sampling were used for the initial soil profile application to Forward Landfill.

At the request of Forward Landfill (Manteca, California), the soil stockpiles were again sampled on September 29, 1992 for additional analysis which were not included in the first set of analyses. One composite soil sample was collected in a glass jar and transported under chain-of-custody to Curtis and Tompkins and analyzed for selected metals (As, Ba, Co, Cu, and Hg), total recoverable petroleum hydrocarbons, and soluble lead.

A summary of all of the analytical results, including EPA test methods, average and highest concentration and number of samples analyzed per chemical, is included in Attachment 1. Copies of the laboratory reports, including Chain-of-Custody forms are included in Attachment 2.

Soil Characterization

Contaminated Soil Description and Waste Characterization Forms were completed, based on the analytical results described above and submitted to Forward Landfill, for their review and concurrence that the soil was not a hazardous waste as defined in CCR Title 22. On November 17, 1992, Forward agreed to accept the soil as non-hazardous via letter. Copies of the completed forms and the agreement to accept the soil are included in Attachment 3.

Soil Loading and Transportation

On November 25, 1992, approximately 144 cubic yards of soil were loaded in eight, 18-yard, semi-end, dump trucks and transported by Manley and Sons Trucking, Inc. (Registration #2843) to Forward Landfill in Manteca, California. Copies of the non-hazardous waste manifests and weighmaster certificates are included in Attachment 4. The soil was loaded into the trucks by means of a front-end loader with a 4-yard bucket. The black plastic sheet that was both under and over the stockpiled soil was removed with the soil and transported to Forward Landfill. Approximately 2-3 inches of soil from beneath the location where the soil was stockpiled was scraped off with the front-end loader and transported off site with the soil. Shovels and brooms were used to ensure that all stockpiled soil was removed from the site.

As with the UST Closure report, we are enclosing additional copies for review by your attorney and subsequent submittal to Alameda County. Submittal to the county is required, in order to document proper disposal of this material. We have enjoyed working with you on this project. If you have any questions please call me or Sherris Ragsdale.

Sincerely,
EOA, Inc.

Don Eisenberg

Don Eisenberg, Ph.D., P.E.
President

Attachments

Send a copy of the report to:

Susan Hugo

EOA, INC.

F:\KX03\DISP.RPT

Susan Hugo
Alameda County
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Attachment 1

Summary of Analytical Results

SUMMARY OF ANALYTICAL RESULTS

EPA TEST METHOD	CONTAMINANT DETECTED	AVERAGE CONCENTRATION	HIGHEST CONCENTRATION	NO. OF SAMPLES
8020	Benzene	ND	ND	4
8020	Toluene	ND	ND	4
8020	Ethyl Benzene	ND	ND	4
8020	Total Xylenes	82 ug/kg	120 ug/kg	4
8015	TPH as Gasoline	42 mg/kg	94 mg/kg	5
8015	TPH as Diesel	1294 mg/kg	2300 mg/kg	5
SMWW 17:5520EF	Oil and Grease	562 mg/kg	920 mg/kg	5
8240	Benzene	22 ug/kg	22 ug/kg	1
8240	Toluene	33 ug/kg	33 ug/kg	1
8240	Ethyl Benzene	170 ug/kg	170 ug/kg	1
8240	Total Xylenes	770 ug/kg	770 ug/kg	1
8270	Naphthalene	2.7 mg/kg	2.7 mg/kg	1
8270	2 Methylnaphthalene	3.0 mg/kg	3.0 mg/kg	1
8270	Phenanthrene	0.97 mg/kg	0.97 mg/kg	1
8270	Fluoranthene	0.84 mg/kg	0.84 mg/kg	1
8270	Pyrene	0.86 mg/kg	0.86 mg/kg	1
8270	Benzo(a)anthracene	0.30 mg/kg	0.30 mg/kg	1
8270	Chrysene	0.23 mg/kg	0.23 mg/kg	1
7420	Lead	24.4 mg/kg	75 mg/kg	5
CAL Title 26 WET + 7420	Soluble Lead	ND	ND	1
6010	Cadmium	0.28 mg/kg	0.28 mg/kg	1
6010	Chromium	23.4 mg/kg	23.4 mg/kg	1
6010	Nickel	26 mg/kg	26 mg/kg	1
6010	Zinc	76.7 mg/kg	76.7 mg/kg	1
6010	Arsenic	20 mg/kg	20 mg/kg	1
6010	Barium	34 mg/kg	34 mg/kg	1
6010	Cobalt	11 mg/kg	11 mg/kg	1
6010	Copper	10 mg/kg	10 mg/kg	1
7470	Mercury	ND	ND	1
418.1	Total Recoverable Petroleum Hydrocarbons	2800 mg/kg	2800 mg/kg	1

ND - Not Detected
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram

F:\KX03\CHEM.RES

Attachment 2

Laboratory Reports and Chain-of-Custody Forms

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

DATE RECEIVED: 05/15/92
DATE REPORTED: 06/01/92

LABORATORY NUMBER: 107400

CLIENT: EOA, INC.

PROJECT ID: KX02

LOCATION: 3211 WOOD STREET

RESULTS: SEE ATTACHED

Reviewed By

Reviewed By

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-1
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: COMPOSITE S1, A,B,C

DATE SAMPLED: 05/15/92
DATE RECIEVED: 05/15/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
cis-1,2-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	50
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethylene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	DETECTED(22)	25
trans-1,3-Dichloropropene	ND	25
2-Chloroethylvinyl ether	ND	50
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethylene	ND	25
Toluene	33	25
Chlorobenzene	ND	25
Ethyl benzene	170	25
Styrene	ND	25
Total xylenes	770	25

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	98 %
Toluene-d8	105 %
Bromofluorobenzene	107 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 05/27/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethylene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	98 %
Bromofluorobenzene	113 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethylene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	97 %
Toluene-d8	100 %
Bromofluorobenzene	113 %

Curtis & Tompkins, Ltd

Laboratory Control Sample Report

Lab No: QC29031
Date Analyzed: 27-MAY-92
Matrix: Water
Batch No: 5398 924279

LCS Datafile: >BER03

Operator: AL

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	42.34	50	85 %	34-128%
Trichloroethene	47.41	50	95 %	37-160%
Benzene	49.66	50	99 %	79-109%
Toluene	49.02	50	98 %	74-115%
Chlorobenzene	47.82	50	96 %	79-118%
Surrogate Recoveries				
1,2-Dichloroethane-d4	47.15	50	94 %	53-170%
Toluene-d8	50.23	50	100 %	85-114%
Bromofluorobenzene	58.32	50	117 %	91-133%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-1
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: COMPOSITE S1 A,B,C

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/18/92
DATE ANALYZED: 05/28/92
DATE REPORTED: 06/01/92

Waste Oil Screen Analysis *
EPA Method 8270
Extraction by EPA Method 3550

ANALYTE	RESULT ug/kg	REPORTING LIMIT ug/kg
Pentachlorophenol (PCP)	ND	1700
Polychlorinated Biphenyls (PCBs)	ND	1700
Dibenzofuran	ND	1700
Polynuclear Aromatics (PNAs)		
Naphthalene	2700	330
2-Methylnapthalene	3000	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Fluorene	ND	330
Phenanthrene	970	330
Anthracene	ND	330
Fluoranthene	840	330
Pyrene	860	330
Benzo(a)anthracene	DETECTED(300)	330
Chrysene	DETECTED(230)	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330
Coal-Tar Creosote**	ND	3300

* Reference: Tri-Regional Board Staff Recommedations for Preliminary Evaluation and Investigation of Underground Tank Sites.
**Sample does not contain one of the components of creosote so only the individual components are reported.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	61%	Nitrobenzene-d5	67%
Phenol-d6	68%	2-Fluorobiphenyl	54%
2,4,6-Tribromophenol	46%	Terphenyl-d14	52%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13-15/92
DATE RECEIVED: 05/15/92
DATE EXTRACTED: 05/18/92
DATE ANALYZED: 05/19-20/92
DATE REPORTED: 05/27/92

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

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
107400-1	COMPOSITE S1 A,B,C	**	510	10
107400-2	COMPOSITE 2 A,B	**	260	10
107400-3	COMPOSITE 3 A,B	**	2,000	10
107400-4	COMPOSITE 4 A,B	**	1,400	10
107400-5	COMPOSITE 5 A,B	**	2,300	10
107400-6	SW1	**	2	1
107400-7	SW2	ND	ND	1
107400-9	SW4	**	120	1
107400-10	SW5	ND	1	1
107400-11	SW6	ND	ND	1
107400-12	SW7	**	26,000	100

ND = Not Detected at or above reporting limit.

*Reporting limit applies to all analytes.

** Quantitated as diesel.

QA/QC SUMMARY: Laboratory Control Sample

RECOVERY, %	70

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/23/92
DATE REPORTED: 05/28/92

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
107400-1	COMPOSITE S1 A,B,C	94	16

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/22/92
DATE ANALYZED: 05/27/92
DATE REPORTED: 05/28/92

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

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
107400-3	COMPOSITE 3 A,B	3	ND(5)	ND(5)	ND(5)	14

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

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/14-15/92
DATE RECEIVED: 05/22/92
DATE ANALYZED: 05/23/92
DATE REPORTED: 05/28/92

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

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
107400-2	COMPOSITE 2 A,B	47	ND(80)	ND(80)	ND(80)	100
107400-4	COMPOSITE 4 A,B	38	ND(80)	ND(80)	ND(80)	94
107400-5	COMPOSITE 5 A,B	30	ND(80)	ND(80)	ND(80)	120
107400-13	SW8	5,100	1,400	960	4,900	8,700

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

QA/QC SUMMARY

RPD, %	6
RECOVERY, %	100

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET

DATE SAMPLED: 05/13-15/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/22/92
DATE REPORTED: 05/29/92

ANALYSIS: LEAD
ANALYSIS METHOD: EPA 7420

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
107400-2	2 A,B	10.3	mg/Kg	3.0
107400-3	3 A,B	13.6	mg/Kg	3.0
107400-4	4 A,B	75.0	mg/Kg	3.0
107400-5	5 A,B	11.6	mg/Kg	3.0
107400-8	SW3	ND	mg/Kg	3.0
107400-13	SW8	9.0	mg/Kg	3.0

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

RPD, %	<1
RECOVERY, %	98

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 107400-1
CLIENT: EOA, INC.
PROJECT ID: KX02
LOCATION: 3211 WOOD STREET
SAMPLE ID: S1 A,B,C,

DATE SAMPLED: 05/15/92
DATE RECEIVED: 05/15/92
DATE ANALYZED: 05/21/92
DATE REPORTED: 05/29/92

METAL	RESULT mg/Kg	REPORTING LIMIT mg/Kg	METHOD
Cadmium	0.28	0.25	EPA 6010
Chromium (total)	23.4	0.50	EPA 6010
Nickel	26.0	1.6	EPA 6010
Zinc	76.7	1.0	EPA 6010
Lead	11.3	3.0	EPA 7420

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD,%	RECOVERY,%
Cadmium	5	105
Chromium (total)	5	99
Nickel	3	98
Zinc	3	93
Lead	2	95

Curtis & Tompkins, Ltd.

Client: EOA, Inc.

Laboratory Login Number: 107400

Project Name: 3211 Wood Street
Project Number: KX02

Report Date: 28 May 92

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520EF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
107400-001	S1 A,B,C	Soil	15-MAY-92	15-MAY-92	20-MAY-92	190	mg/Kg	50	TR	5349
107400-002	2 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	150	mg/Kg	50	TR	5349
107400-003	3 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	790	mg/Kg	50	TR	5349
107400-004	4 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	760	mg/Kg	50	TR	5349
107400-005	5 A,B	Soil	15-MAY-92	15-MAY-92	20-MAY-92	920	mg/Kg	50	TR	5349
107400-007	SW2	Soil	13-MAY-92	15-MAY-92	20-MAY-92	ND	mg/Kg	50	TR	5349

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: EOA, Inc.
Project Name: 3211 Wood Street
Project Number: KX02

Laboratory Login Number: 107400
Report Date: 28 May 92

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 5349**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	50	mg/Kg	SMWW 17:5520EF	20-MAY-92

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	95%	SMWW 17:5520EF	20-MAY-92
BSD	89%	SMWW 17:5520EF	20-MAY-92

		Control Limits
Average Spike Recovery	92%	80% - 120%
Relative Percent Difference	5.7%	< 20%

EOH, INC

107400

Chain of Custody Form

Curtis & Tompkins, Ltd
2323 Fifth Street
Berkeley, California 94710
(415) 486-0900

Samplers: Jim Crowley

Job Description: KX02 - 3211 Wood St

Job Number: KX02

Client Contact: Jim Crowley 832-2852

Recorder: Jim Crowley

Sample Number	Matrix: Water	Soil	Waste	Oil			#Containers	Method Preserved: H_2SO_4	HNO_3	Ice	None	Other	Sampling Date: Yr	Mo	Dy	Time	SAMPLE NOTES	ANALYSIS REQUESTED: TPH-G	TPH-D	BTEX	EPA 8240	O&G	Cd, Cr, Ni, Pb, Zn	Total Lead	SAPA 8270 for PCB, PCP, PNA, Creosote & Benzofuran only
1		X					3						92	05	15	1000	Waste oil/solvent Stockpile	X	X		X	X	X		X
2		X					2						92	05	15	1000	Wet stockpile - Diesel	X	X	X		X		X	
3		X					2						92	05	15	1000	Stockpile - Diesel + Gas	X	X	X		X		X	
4		X					2						92	05	15	1000		X	X	X		X		X	
5		X					2						92	05	15	1000		X	X	X		X		X	

Laboratory Notes: * Composite Samples.

Chain of Custody Record

Relinquished by: (signature) Date/Hr	Received by (signature)
James S. Crowley 11:00 5/15/92	
Relinquished by: (signature) Date/Hr	Received by (signature)
Relinquished by: (signature) Date/Hr	Received by (signature)
Relinquished by: (signature) Date/Hr	Received by (signature)
Dispatched by: (signature) Date/Hr	Received for Lab by (signature) 5/15/92 11:00

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

DATE RECEIVED: 9/29/92
DATE REPORTED: 10/13/92

LABORATORY NUMBER: 108787

CLIENT: EOA, INC.

PROJECT ID: KX03

RESULTS: SEE ATTACHED

Reviewed by

Reviewed by

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 108787-001
CLIENT: EOA, INC.
PROJECT ID: KX03

DATE SAMPLED: 9/29/92
DATE RECEIVED: 9/29/92
DATE REPORTED: 10/13/92

SAMPLE ID: KX031092A

ANALYSIS	RESULT	UNITS	REPORTING LIMIT	METHOD
ARSENIC	20	mg/Kg	20	EPA 6010
BARIUM	34	mg/Kg	0.5	EPA 6010
COBALT	11	mg/Kg	0.9	EPA 6010
COPPER	10	mg/Kg	0.5	EPA 6010
MERCURY	ND	mg/Kg	0.1	EPA 7471

QA/QC SUMMARY	ANALYSIS DATE	RPD,%	RECOVERY,%
ARSENIC	10/01/92	3	94
BARIUM	10/01/92	<1	100
COBALT	10/01/92	1	97
COPPER	10/01/92	<1	97
MERCURY	10/02/92	<1	101

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 108787-001
CLIENT: EOA, INC.
PROJECT: KX03

DATE SAMPLED: 9/29/92
DATE RECEIVED: 9/29/92
DATE ANALYZED: 10/01/92
DATE REPORTED: 10/13/92

ANALYSIS: TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
ANALYSIS METHOD: EPA 418.1

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
108787-001	KX031092A	2,800	mg/Kg	100

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

RPD, %	3
RECOVERY, %	96

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 108787-001
CLIENT: EOA, INC.
PROJECT ID: KX03

DATE SAMPLED: 9/29/92
DATE RECEIVED: 9/29/92
DATE EXTRACTED: 9/29/92
DATE ANALYZED: 10/02/92
DATE REPORTED: 10/13/92
DATE REVISED: 10/14/92

ANALYSIS: SOLUBLE LEAD
EXTRACTION BY WASTE EXTRACTION TEST: CCR TITLE 26 SECTION 22-66700
: extracted in DI Water
ANALYSIS METHOD: EPA 7420

LAB ID	CLIENT ID	RESULT	UNITS	REPORTING LIMIT
108787-001	KX031092A	ND	ug/L	60

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	7
RECOVERY, %	96

10878?

EOA, Inc.

Eisenberg, Olivieri, & Associates
Environmental and Public Health Engineers
1410 Jackson Street, Oakland, CA 94612 (415) 832-2852

Project ID: KX03 Sampled By: Jim Crowley

Sampling Data: 9/29/92 Laboratory Name: C&T

NOTES TO LAB

a) Specify analytic method and detection limit.
b) Notify us if there are any anomalous peaks on GC or other scans.
c) Duplicates are listed in parentheses.
d) ANY QUESTIONS/CALIFICATIONS: CALL US

Sample ID	Sampling Date	Sample/ Container Type (1)	Analyze/ Hold (2)	Turn-around (3)	Analyze For:	Analytic Method/ Detection Limit	Comments
KX031092A	9/29/92	S-1QG(2)	A	N	TOTAL RECOVERABLE PETROLEUM HYDROCARB'S	418.1	
					TOTAL METALS Ag	6010	
					Ba	↓	
					Co		
					Cu		
					Hg	7470	
					SOLUBLE LEAD (Pb)	WET EXTRACTION USING D.I. WATER	STLC - USE D.I. WATER AS EXTRACTING AGENT.

James S Crowley 9/29/92 11:22AM.
A. Released By (Signature), Date, Time

B. Released By (Signature), Date, Time

A. Received By (Signature), Date, Time

B. Received By (Signature), Date, Time

Received By Lab Personnel, Date, Time Lab Telephone Shipping Carrier, Method, Date

(1) - Sample Type Codes: W = Water, S = Soil, O = Other (specify).
Container Type Codes: V = VOA Bottle, P = Plastic Bottle, G = Glass Bottle, T = Brass Tube, O = Other (specify)

(2) - Analyze/Hold: A = Analyze, HOLD (spell out) = Do not analyze unless necessary or requested.

(3) - Turnaround: N = Normal turnaround, F = 1 week turnaround, R = 24 hour turnaround.

Attachment 3

Contaminated Soil Description Form, Waste Characterization Form, and Agreement for Petroleum Contaminated Soil

FORWARD INC. LANDFILL
CONTAMINATED SOIL DESCRIPTION FORM

Generating Site: HENRIETTA LARSON

Site Address: 3211 WOOD ST.

City: OAKLAND State: CA

CHEMICAL ANALYSIS COMPLETED

(please check the analyses performed on the soil)

8015	✓	8240	✓	Metals	✓
8010		8270	✓	Bio-Assay	
8020	✓	418.1	✓	Other	

CHEMICAL RESULTS SUMMARY

SEE ATTACHED SUMMARY

TEST METHOD	CONTAMINENT DETECTED	AVERAGE CONCENTRATION	HIGHEST CONCENTRATION	NO. OF SAMPLES

Form Completed By: Jeffris Ragsdale

Signature Jeffris Ragsdale

Company: EDA, Inc. Title: Jr. Geologist

phone: 510-832-2852

1 May 1992

CHEMICAL RESULTS SUMMARY

EPA TEST METHOD	CONTAMINANT DETECTED	AVERAGE CONCENTRATION	HIGHEST CONCENTRATION	NO. OF SAMPLES
8020	Benzene	ND	ND	4
8020	Toluene	ND	ND	4
8020	Ethyl Benzene	ND	ND	4
8020	Total Xylenes	82 ug/kg	120 ug/kg	4
8015	TPH as Gasoline	42 mg/kg	94 mg/kg	5
8015	TPH as Diesel	1294 mg/kg	2300 mg/kg	5
SMWW 17:5520EF	Oil and Grease	562 mg/kg	920 mg/kg	5
8240	Benzene	22 ug/kg	22 ug/kg	1
8240	Toluene	33 ug/kg	33 ug/kg	1
8240	Ethyl Benzene	170 ug/kg	170 ug/kg	1
8240	Total Xylenes	770 ug/kg	770 ug/kg	1
8270	Naphthalene	2.7 mg/kg	2.7 mg/kg	1
8270	2 Methylnaphthalene	3.0 mg/kg	3.0 mg/kg	1
8270	Phenanthrene	0.97 mg/kg	0.97 mg/kg	1
8270	Fluoranthene	0.84 mg/kg	0.84 mg/kg	1
8270	Pyrene	0.86 mg/kg	0.86 mg/kg	1
8270	Benzo(a)anthracene	0.30 mg/kg	0.30 mg/kg	1
8270	Chrysene	0.23 mg/kg	0.23 mg/kg	1
7420	Lead	24.4 mg/kg	75 mg/kg	5
CAL Title 26 WET + 7420	Soluble Lead	ND	ND	1
6010	Cadmium	0.28 mg/kg	0.28 mg/kg	1
6010	Chromium	23.4 mg/kg	23.4 mg/kg	1
6010	Nickel	26 mg/kg	26 mg/kg	1
6010	Zinc	76.7 mg/kg	76.7 mg/kg	1
6010	Arsenic	20 mg/kg	20 mg/kg	1
6010	Barium	34 mg/kg	34 mg/kg	1
6010	Cobalt	11 mg/kg	11 mg/kg	1
6010	Copper	10 mg/kg	10 mg/kg	1
7470	Mercury	ND	ND	1
418.1	Total Recoverable Petroleum Hydrocarbons	2800 mg/kg	2800 mg/kg	1

FORWARD, INC.

WASTE CHARACTERIZATION FORM

RETURN TO FORWARD, INC.
ATTN: Solid Waste Coordinator
P. O. Box 6336
Stockton, California 95206

SECTION A: GENERATOR/TRANSPORTER INFORMATION

Waste Generator, Company Name: HENRIETTA LARSON
Contact Person: _____ Phone: (510) 531-7470
Generating Facility: Address: 3211 WOOD ST
City: OAKLAND State: CA Zip: 94608
Transporter, Company Name: MANLY TRUCKING
Contact Person: DAN MANLY Phone: (916) 381-6864
Consultant, Company Name: EQALINK
Contact Person: Sherri Ragsdale Phone: (510) 932-2852

SECTION B: WASTE STREAM IDENTIFICATION

General Description of waste: PETROLEUM CONTAMINATED SOIL
Process generating waste: TANK REMOVAL

SECTION C: PHYSICAL CHARACTERISTICS

Color: BRN Physical State: ☒ Solid ☐ Liquid ☐ Slurry ☐ Paste ☐ Powder
Free Liquids: ☐ Yes ☒ No pH: _____ Odor: ☐ Strong ☐ Mild ☒ None

SECTION D: WASTE COMPOSITION (see SECTION E for asbestos)

(include range of concentrations for multiple samples)

Total Petroleum Hydrocarbons:

as gasoline	3-94	ppm
as diesel	260-2300	ppm
(OIL & GREASE) ~~as motor oil~~	150-920	ppm
other: HB-1	2800	ppm

Aromatic Hydrocarbons:

Benzene	0.022 (ND @ 0.08)	ppm
Toluene	0.033 (ND @ 0.08)	ppm
Xylenes (total)	0.014-0.17	ppm
Ethylbenzene	ND-0.170	ppm

Other Components (list):

NAPHTHALENE	2.7	ppm
2-METHYLNAPHTHALENE	3.0	ppm
PHENANTRENE	0.97	ppm
BENZOPHTRACENE	0.30	ppm
CHRYSENE	0.23	ppm
PYRENE	0.86	ppm
FLUORANTHENE	0.84	ppm
Methylenedianiline	ND @ 1.7	ppm
PCB's	ND @ 1.7	ppm
Dibenzofuran	ND @ 1.7	ppm
		ppm
		ppm
		ppm
		ppm
		ppm
		ppm

(attach or submit additional sheets if necessary)

Metals:	Total (mg/kg)	Soluble (Cal. WET) (mg/l)	
Antimony	—		
Arsenic	20		
Barium	34		
Beryllium	—		
Cadmium	0.28		
Chrom. total	23.4		
Chrom. VI	—		
Cobalt	11		
Copper	10		
Lead	10.3-75	ND @ 0.06	
Mercury	ND @ 0.1		
Manganese	—		
Molybdenum	—		
Nickel	26		
Selenium	—		
Silver	—		
Strontium	—		
Thallium	—		
Vanadium	—		
Zinc	76.7		
Others (list)			

SECTION E: ASBESTOS N/A

Indicate containment for asbestos:
☐ bags ☐ cartons ☐ drums ☐ wrapping
☐ other _____

NOTE: Al asbestos must be prepared for transportation to and disposal at the Forward Landfill in accordance with all applicable regulatory requirements.

SECTION F: SHIPPING INFORMATION

Method: ☐ Bulk Liquid ☑ Bulk Solid
☐ Containerized (type): _____

Quantity: 200 ☑ Cubic yards ☐ gallons

per ☐ month ☐ year ☑ one time only
☐ other _____

NOTE: All shipments must be approved by the Forward, Inc. Environmental Compliance Officer or Solid Waste Coordinator prior to delivery.

SECTION G: CERTIFICATION/INDEMNIFICATION STATEMENT

THE BELOW-NAMED COMPANY WARRANTS THAT THE ABOVE AND ANY ATTACHED OR SUBMITTED WASTE CHARACTERIZATION IS COMPLETE AND ACCURATE AND THAT BASED UPON TESTING AND ANALYSIS PERFORMED ON THE WASTE MATERIALS, NONE OF THE WASTE MATERIALS ARE HAZARDOUS AS DEFINED BY 40 CFR, PART 261, AND THE CALIFORNIA CODE OF REGULATIONS, TITLE 22. WITH THE EXCEPTION OF ASBESTOS WHICH IS PROPERLY DESCRIBED IN SECTIONS E AND F ABOVE. IN THE EVENT THAT ANY PORTION OF THE WASTE MATERIALS (OTHER THAN ASBESTOS PROPERLY DESCRIBED IN SECTIONS E AND F ABOVE) IS DETERMINED TO BE HAZARDOUS ("HAZARDOUS MATERIALS") ACCORDING TO ANY OF THE ABOVE MENTIONED REGULATIONS, EACH PARTY SHALL NOTIFY THE OTHER IN WRITING IMMEDIATELY UPON LEARNING OF SUCH DETERMINATION. THE BELOW-NAMED COMPANY SHALL WITHIN TEN (10) DAYS AFTER RECEIVING SUCH WRITTEN NOTIFICATION REGARDING A HAZARDOUS DETERMINATION, AND AT THE BELOW-NAMED COMPANY'S SOLE EXPENSE, REMOVE THE HAZARDOUS MATERIAL FROM THE FORWARD LANDFILL AND PROPERLY DISPOSE OF THEM ELSEWHERE. THE BELOW-NAMED COMPANY WARRANTS THAT ANY ASBESTOS DELIVERED TO THE FORWARD LANDFILL HAS BEEN PROPERLY DESCRIBED IN SECTIONS E AND F ABOVE AND HAS BEEN PREPARED FOR TRANSPORTATION TO AND DISPOSAL AT THE FORWARD LANDFILL IN FULL COMPLIANCE WITH APPLICABLE REGULATORY REQUIREMENTS.

THE BELOW-NAMED COMPANY SHALL DEFEND, INDEMNIFY AND SAVE HARMLESS FORWARD, INC., ITS AFFILIATES, THEIR OFFICERS, DIRECTORS, AGENTS, REPRESENTATIVES AND EMPLOYEES AND THEIR SUCCESSORS AND ASSIGNS FROM ANY LIABILITY, CLAIMS, LOSSES, DAMAGES, COSTS, LIENS, JUDGMENTS, ORDERS, GOVERNMENT DIRECTIVES, OR EXPENSES OF ANY KIND IN CONNECTION WITH THE HAZARDOUS MATERIALS AND/OR NON-CONFORMING WASTE AND IN CONNECTION WITH ANY BREACH OF THE BELOW-NAMED COMPANY'S WARRANTIES GIVEN OR THE BELOW-NAMED COMPANY'S OBLIGATIONS UNDERTAKEN HEREIN.

THE BELOW-NAMED COMPANY AGREES THAT, IN THE EVENT THAT IT LEARNS THAT THE WASTE CONSTITUENTS VARY FROM THOSE SET FORTH ABOVE OR ON ANY ATTACHED OR SUBMITTED DOCUMENTS, IT WILL IMMEDIATELY SUBMIT A CORRECTED WASTE CHARACTERIZATION FORM.

COMPANY: _____

BY: (Print Name) _____ TITLE: _____

X SIGNATURE: Mrs. Henrietta Larson DATE: 11/9/92

FORWARD INC.

P.O. Box 6336
Stockton, California 95206
(209) 466-5192
FAX (209) 465 0631

November 17, 1992

Ms. Henrietta Larson
3211 Wood Street
Oakland, CA 94612

Re: **Agreement for Petroleum-Contaminated Soil at Forward Landfill Job #92-234**

Dear Ms. Larson:

Thank you for your inquiry concerning the disposal of petroleum-contaminated soil at Forward, Inc's Landfill ("Landfill"). Forward, Inc. ("Forward") will accept the petroleum-contaminated soil described in the November 9, 1992, application and associated attachments (the "Soil") submitted by Eisenberg, Olivieri, & Associates ~~("Disposer")~~ on behalf of Henrietta Larson ("Generator") and which generating site is located at 3211 Wood Street, Oakland, CA., subject to the following terms and conditions: Generator

1. ~~Disposer~~ shall pay $60.00 per cubic yard for the approximate 200 cubic yards of soil delivered (collectively, the "Fee") **C.O.D by Cashiers Check in the amount of $ 12,000.00** made payable to **Forward Incorporated.** Soil to be delivered to Forward Landfill is slated for bioremediation treatment. Forward reserves the right in its sole discretion to refuse to accept further deliveries of Soil which would result in the combined volume estimates being exceeded by more than ten (10%). The Fee remains in effect so long as the Soil is delivered to the Landfill by no later than November 30, 1992. Forward reserves the right to increase disposal charges without notice after that date, in its sole discretion.

2. The actual total amount of Fees charged for any given truckload of Soil delivered to the Landfill shall be: Via Semi-End Dump Truck which will transport 18 cubic yards, multiplied by the applicable fees pursuant to Paragraph 1. Additionally, if a Truck arrives that is partially filled, an agreement will be made between the transporter and Forward as to the volume of Soil in the Truck.

3. The Fees do not include transportation fees. Generator and/or Disposer shall be solely responsible for payment of all such fees.

4. Forward has obtained approval from San Joaquin County Public Health Services to accept the Soil based on the information Disposer has provided and the satisfactory completion of any conditions listed in item (5.) below. The regulatory approval number for the Soil is **92-234**. ~~Disposer~~ shall include this regulatory approval number in all correspondence and documentation relating to the Soil. Consultant DE

5. Prior to delivery of any Soil to the Landfill, Disposer shall complete to Forward's satisfaction, at Generator and/or Disposer's sole cost, the following additional tests on the highly contaminated portion of the Soil:

(a) none required

All such tests shall be performed at a California certified laboratory. The results of such tests shall be provided to Forward. If Forward, in its sole discretion, does not approve such results, the Soil cannot be accepted by the Landfill.

6. Forward reserves the right, in its sole discretion, to conduct verification tests regarding the contaminants on any portion of the Soil. Such tests will be conducted within 48 hours of receipt of the Soil. If, in Forward's sole judgement, the results of verification testing do not adequately match the results of prior testing, Forward, in its sole discretion, may terminate Disposer's right to make any further deliveries of Soil and may require the Disposer to immediately remove from the Landfill, at Disposer's sole cost, all Soil previously delivered. Within sixty (60) days after final removal of all such Soil, Forward shall refund any Fees previously paid by Disposer for disposal of such soil, less a handling charge to be retained by Forward of $10.00 per cubic yard of such soil. Title to all such removed Soil shall remain in Generator.

7. The data, information, terms and conditions of the Forward Waste Characterization Form, which Disposer previously submitted to Forward regarding the Soil, are hereby incorporated into this agreement in their entirety.

8. Disposer shall give Forward at least twenty-four (24) hours notice prior to the delivery of any Soil by calling the landfill at (209) 982-4298. Such notice shall include the anticipated number of trucks to be used in delivering the Soil, total estimated volume of Soil to be disposed of, and the description of any special equipment that shall be required for the disposal. Disposer shall conform to any reasonable routing requirements, safety protocol and dumping directions.

9. Forward shall have no obligation to accept Soil if weather or other conditions impair the safe and effective disposal of the Soil or if the Soil impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept Soil for any reason. If Forward's refusal to accept the Soil is based on weather or other site conditions, Forward shall notify Disposer when site conditions are expected to change such that Forward will be able to accept the Soil.

10. Forward's acceptance of the Soil is subject to regulatory approval and applicable regulatory requirements. Forward shall have no responsibility or liability to Generator and/or Disposer or any other person due to regulatory requirements which affect or limit Forward's ability to accept soil.

11. Generator and/or Disposer and Forward warrant that they will comply with all statutory and regulatory requirements applicable to the transportation or disposal of the Soil.

12. Generator and/or Disposer shall indemnify, defend and hold harmless Forward, its affiliates, and their officers, directors, employees, agents, representatives, successors and assigns from and against any and all costs, judgements, losses, liabilities, regulatory directives, liens, fees (including but not limited to attorney's fees), penalties, fines, taxes and expenses (collectively "Liabilities"), to the extent arising from Generator and/or Disposers breach of this agreement or the negligence or willful misconduct of Generator and/or Disposer or its contractors or agents regarding the generation, handling, transportation, transfer or disposal of the Soil.

13. Forward shall indemnify, defend and hold harmless Generator and/or Disposer, its affiliates, and their officers, directors, employees, agents, representatives, successors and assigns from and against any and all Liabilities, to the extent arising from Forwards breach of this agreement or the negligence or willful misconduct of Forward or its contractors or agents regarding the handling, transportation, transfer or disposal of the Soil.

14. The warranties and indemnities in this agreement and any related document, including but not limited to the Waste Characterization Form, shall survive the termination of this agreement.

15. Subject to Paragraph 6 above, Title to the Soil shall pass to Forward upon delivery of the Soil to the Landfill.

16. In the absence of Forward's written consent, which Forward may withhold in its sole discretion, Generator and/or Disposer shall not (1) assign or transfer any right of Generator and/or Disposer under this agreement, or (ii) delegate or sub-contract any portion of the Generator and/or Disposer's obligation under this agreement.

17. This agreement contains the entire understanding and agreement between the parties hereto with respect to the subject matter hereof and supersedes all previous communications, negotiations and agreements, whether oral or written, between the parties with respect to such subject matter, and any additions to or modifications or waivers of any provisions of this letter agreement shall not be binding on either party unless made in writing and executed by both parties.

18. If any action or proceeding is brought to enforce the terms of this agreement, the prevailing party shall be entitled to recover its reasonable attorneys fees and costs.

19. Forward shall send out billing statements monthly or as required when applicable. Disposer shall make payment within thirty (30) days of receipt of such statements. Disposer shall pay a service charge of one and one half percent (1.5%) on all accounts thirty (30) days past due.

20. Title to soil will remain with Generator until payment is received in full. Certificate of Bioremediation will not be issued until payment is received in full and bio-treatment is complete.

21. Disposer agrees that in no event, regardless of day of the month, shall the amount due the landfill for that month, as shown by the record of Forward Incorporated to exceed $100.00. Disposer agrees to pay, within 48 hours, any amount in excess of established credit line, to reduce the maximum amount due to $100.00 less. If Disposer or Generator is late with any required payments or in breach of this Agreement, Forward Incorporated, in its sole discretion, may suspend Disposer's disposal privileges and will not accept transfer of Title of delivered Soils to Forward Inc. under this agreement.

If Ms. Henrietta Larson wishes to enter into this agreement as specified above, please sign below and return this letter to us for our files. (A duplicate original is enclosed for you to retain for your files.) I look forward to hearing from you.

Sincerely,

FORWARD, INC.

By: Lettie Varon Alkire
Account Representative

READ, ACCEPTED AND AGREED TO:

Henrietta Larson

By:_____

Title:_____

Date:_____

Attachment 4

Non-Hazardous Waste Manifests and Weighmaster Certificates

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01695

Generator: Henrietta Lanza
Address: 5601 Lena St Oakland Ca 94605
Phone: (510) 832 - 2852 Contact: Sheri Ragsdale

Transporter: Manley & Sons Trucking
Address: 8896 Elder Creek Rd Sacramento Ca 95828
Phone: (916) 381 - 6864 Contact: Don Manley

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: [signature]
Shipment Date: 11-25-92
Truck No.: M-3 Load No.:
Vehicle License No./State: 4437558

Consultant/Contractor: EOA
Address: 1410 Jackson St Oakland Ca 94612
Phone: (510) 832 - 2852 Contact: Sheri Ragsdale

I hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulations.

Name: Sheri Ragsdale agent for [illegible] Date: 11-25-92

Destination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: [signature] Woodward
Date: 11-25-92

Acceptance No.: 92 - 234

This load contains soil with:

________ less than 100 ppm ________ greater than 100 ppm

A COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES MUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

Yards Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01692

enerator: Henrietta Lawson
ddress: 5601 Leona St Oakland Ca 94605
hone: (510) 832 - 2852 Contact: Sherri Ragsdale

ransporter: Manley & Sons Trucking
ddress: 8896 Elder Creek Rd Sacramento Ca 95828
hone: (916) 381 - 6864 Contact: Don Manley

hereby certify that the above named material was picked up at the generator site listed above.

river Signature: [signature]
hipment Date: 11-25-92
ruck No.: M-21 Load No.:
ehicle License No./State: 4L30445 Ca.

onsultant/Contractor: EOA
ddress: 1410 Jackson St Oakland Ca 94612
hone: (510) 832 - 2852 Contact: Sherri Ragsdale

hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form nd Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition or transport according to applicable regulations.

ame: Sherri Ragsdale agent for Henrietta Lawson Date: 11/25/92

estination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: [signature]
Date: 11-25-92

cceptance No.: 92 - 234

his load contains soil with:

________ less than 100 ppm ________ greater than 100 ppm

COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR NTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES IUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

ards Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01691

Generator: Henrietta Lawson

Address: 5601 Leona St Oakland Ca 94065

Phone: (510) 832 - 2852 Contact: Shawn Ragsdale

Transporter: Manley & Sons Trucking

Address: 8896 Elder Creek Rd Sacramento Ca 95828

Phone: (916) 381 - 6864 Contact: Don Manley

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: Harold [illegible]

Shipment Date: 11-25-92

Truck No.: M-10 Load No.:

Vehicle License No./State: 3U87068 CA

Consultant/Contractor: EOA

Address: 1410 Jackson St Oakland Ca 94612

Phone: (510) 832 - 2852 Contact: Shawn Ragsdale

I hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulations.

Name: Shawn Ragsdale agent for Henrietta Lawson Date: 11/25/92

Destination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: [illegible]
Date: 11-25-92

Acceptance No.: 92 - 234

This load contains soil with:

________ less than 100 ppm ________ greater than 100 ppm

A COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES MUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

Yards Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01694

Generator: Henrietta Larson
Address: 5601 Luna St Oakland Ca 94065
Phone: (510) 832 - 2852 Contact: Sherri Ragsdale

Transporter: Manley & Sons Trucking
Address: 8896 Elder Creek Rd Sacramento Ca 95828
Phone: (916) 381 - 6864 Contact: Don Manley

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: John Fite
Shipment Date: 11-25-92
Truck No.: M 83 Load No.: 3
Vehicle License No./State: 2G42637 10K1493

Consultant/Contractor: E OH
Address: 1410 Jackson St Oakland Ca 94612
Phone: (510) 832 - 2852 Contact: Sherri Ragsdale

I hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulations.

Name: [illegible] Date: 11/25/92

Destination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: [illegible]
Date: 11-25-92

Acceptance No.: 92 - 234

This load contains soil with:

________ less than 100 ppm ________ greater than 100 ppm

A COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES MUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

Yards Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01693

enerator: Henrietta Lanoon
ddress: 5601 Leona St Oakland Ca 94605
hone: (510) 832 - 2852 Contact: Sherri Kapadia

ansporter: Manley & Sons Trucking
ddress: 8896 Elder Creek Rd Sacramento Ca 95828
hone: (916) 381 - 6864 Contact: Don Manley

hereby certify that the above named material was picked up at the generator site listed above.

river Signature: Don Manley
ipment Date: 11-25-92
uck No.: M-17 Load No.:
ehicle License No./State: 4P02028

onsultant/Contractor: EOH
ddress: 1410 Jackson St Oakland Ca 94612
hone: (510) 832 - 2852 Contact: Sherri Kapadia

hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form nd Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition r transport according to applicable regulations.

ame: Sherri Kapadia agent for Henrietta Lanoon Date: 11/25/92

estination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: Ron Wells
Date: 11-25-92

cceptance No.: 92 - 234

his load contains soil with:

_____ less than 100 ppm _____ greater than 100 ppm

COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR NTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES IUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

ards Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01688

(Ge)nerator: Henrietta Lawson
(Add)ress: 5601 Leona St Oakland Ca 94605
(Pho)ne: (510) 832 - 2852 Contact: Sherri Ragsdale

(Tra)nsporter: Manley & Sons Trucking
(Add)ress: 8896 Elder Creek Rd Sacramento Ca 95828
(Pho)ne: (916) 381 - 6864 Contact: Don Manley

(I he)reby certify that the above named material was picked up at the generator site listed above.

(Driv)er Signature: Stephen Cowey
(Ship)ment Date: 11/25/92
(Tru)ck No.: M-7 Load No.:
(Veh)icle License No./State: 2W67199 CA

(Con)sultant/Contractor: EOA
(Add)ress: 1410 Jackson St Oakland Ca 94612
(Pho)ne: (510) 832 - 2852 Contact: Sherri Ragsdale

(I he)reby certify that the above named material is consistent with the information presented in the Waste Characterization Form (or) Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition (for) transport according to applicable regulations.

(Na)me: Sherri Ragsdale agent for Henrietta Lawson Date: 11/25/92

(De)stination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: Tony [illegible]
Date: 11-25-92

(Ac)ceptance No.: 92 - 234

(Thi)s load contains soil with:

________ less than 100 ppm ________ greater than 100 ppm

(A C)OPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR (EN)TRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES (MU)ST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

(Yar)ds Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01698

Generator: Henrietta Larson
Address: 5601 [illegible] St Oakland Ca 94065
Phone: (510) 832 - 2852 Contact: Sherri Kagsdale

Transporter: Manley & Sons Trucking
Address: 8896 Elder Creek Rd Sacramento Ca 95828
Phone: (916) 381 - 6864 Contact: Don Manley

hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: M. Manly
Shipment Date: 11-25-92
Truck No.: M-16 Load No.:
Vehicle License No./State: 3573654 - 1445821 CA

Consultant/Contractor: EOA
Address: 1410 Jackson St Oakland Ca 94612
Phone: (510) 832 - 2852 Contact: Sherri Kagsdale

hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulations.

Name: Sherri Kagsdale agent for Henrietta Larson Date: 11/25/92

Destination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: Rosi Williams
Date: 11-25-92

Acceptance No.: 92 - 234

This load contains soil with:

______ less than 100 ppm ______ greater than 100 ppm

COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES MUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

Yards Per this Load: 18 yards

TRANSPORTER COPY

Recycled Paper

FORWARD, INC. NON-HAZARDOUS WASTE DRIVER IDENTIFICATION FORM

01699

Generator: Henrietta Lanoni
Address: 5601 Leona St Oakland Ca 94605
Phone: (510) 532 - 2852 Contact: Steve Magsdale

Transporter: Manley & Sons Trucking
Address: 8896 Elkhorn Creek Rd Sacramento Ca 95828
Phone: (916) 381 - 6564 Contact: Dan Manley

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: Tim Manley
Shipment Date: 11/25/92
Truck No.: M-11 Load No.:
Vehicle License No./State: 4B43397

Consultant/Contractor: EOA
Address: 1410 Jackson St Oakland Ca 94612
Phone: (510) 832 - 2852 Contact: Steve Magsdale

I hereby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulations.

Name: Steve Magsdale agent for Henrietta Lanoni Date: 11/25/92

Destination: Forward, Inc.
9999 South Austin Road, Manteca, California 95336
(209) 982-4298
Received by: Ron Lewis
Date: 11.25.92

Acceptance No.: 92 - 234

This load contains soil with:

_____ less than 100 ppm _____ greater than 100 ppm

A COPY OF THIS SHEET MUST ACCOMPANY EVERY WASTE LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE: **(209) 982-4298** LANDFILL DELIVERIES MUST BE SCHEDULED ON A **DAILY** BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

Yards Per this Load: 18 yards

TRANSPORTER COPY

Telephone (916) 381-6864
FAX (916) 381-1573
P.U.C. PERMIT NUMBER
CAL T 173,038

MANLEY & SONS TRUCKING, INC.

8896 ELDER CREEK RD., SACRAMENTO, CA 95828

OFFICE USE
DTE
JOB
FREIGHT BILL NO: 15850
TRK
LDS
HRS
TNS
HOURLY RATE NOTICE AND DATE

DATE: 11/25/92 | MATERIAL: 936 | TYPE OF LOADING: BELT ☐ HOT PLANT ☐ BUNKER ☐ FRONT LOADER ☒ OTHER:

DESTINATION: WHERE MAT'L DELIVERED: 32nd St Oakland CA.

POINT OF ORIGIN: WHERE MAT'L WAS LOADED: 8896 Elder Creek Rd.

CONSIGNOR: WHO OWNED MAT'L: General Transi | CONSIGNOR ADDRESS

CONSIGNEE: WHO REC'D MAT'L: Foward Inc. | CONSIGNEE ADDRESS

DEBTOR: CONTRACTOR: E.O.A. | DEBTOR ADDRESS

LOCATION DRIVER REPORTED : AND TIME : | MILEAGE : | WHEN ZONE RATES APPLY: PROD. AREA: DEL. ZONE: | YARDAGE CAP'Y IF APPLICABLE : C

TAG NUMBER	WEIGHT	LOADING TIMES ARRIVE	LOADING TIMES DEPART	LEAVE SCALES	UNLOADING TIMES ARRIVE	UNLOADING TIMES DEPART	REMARKS
1		4:30	5:00		7:00	11:30	Haul in and
2		1:30	2:00				Haul out
3							936 Cat
4							Loader
5							
6							(1) Bridge Toll
7							I 80 8:35
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

ENTERED

TERMS: PAYMENT DUE BY 20TH OF FOLLOWING MONTH (Section 7106.6 of the California Business & Professions Code). A service charge of 1½% per month (18% per annum) will be charged on past due accounts. Debtor (Contractor) agrees to pay reasonable attorney fees and court costs in case of suit to collect.

DISPATCH TIME:

Ⓐ START TIME: 5:00

Ⓑ ELAPSED RUNNING TIME (LOADED TRAVEL TIME) OF LAST LOAD IN MINUTES:

Ⓒ LINE Ⓑ ADDED TO LAST UNLOAD TIME IS END TIME:

Ⓓ FROM LINE Ⓐ TO LAST LOAD OR WEIGH TIME PLUS DOUBLE LINE Ⓑ PLUS LINE Ⓒ OR ELAPSED TIME FROM LINE Ⓒ TO LINE Ⓒ IS TOTAL TIME: 4½

Ⓔ TIME THAT DEBTOR SHOULD NOT HAVE TO PAY FOR (SHOW DOWN TIME, LUNCH, ETC. IN REMARKS SECTION) DEDUCTIONS:

Ⓕ ELAPSED UNLOADING TIME OF LAST LOAD IN MINUTES

LINE Ⓔ LESS LINE Ⓓ IS NET TIME: 4½

DRIVER'S SIGNATURE: X Garth Shetler

UNDERLYING CARRIER

ADDRESS

SUBHAULER'S CAL T-NO: 171947 | NO OF AXLES: 5

LICENSE NUMBERS	TRUCK NO.	CHECK IF UNDER 5th BETWEEN 1ST AND LAST AXLES
TRUCK	M-65	
SEMI	T-65	
PULL		

RATE AND CHARGES	TONS OR HRS.	RATE	AMOUNT DUE

CONSIGNEE SIGNATURE

Telephone (916) 381-6864
FAX (916) 381-1573
P.U.C. PERMIT NUMBER
CAL T 173,038

MANLEY & SONS TRUCKING, INC.

8896 ELDER CREEK RD., SACRAMENTO, CA 95828

OFFICE USE: DTE | JOB | FREIGHT BILL NO: 16126 | TRK | LDS | HRS | TNS | HOURLY RATE NOTICE AND DATE

DATE: 11/25/92 | MATERIAL: 936 | TYPE OF LOADING: BELT ☐ BUNKER ☐ HOT PLANT ☐ FRONT LOADER ☒ | OTHER:

DESTINATION: WHERE MAT'L DELIVERED: 32nd St. Oakland CA.

POINT OF ORIGIN: WHERE MAT'L WAS LOADED: Same

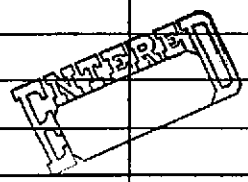
CONSIGNOR: WHO OWNED MAT'L: General Trans. | CONSIGNOR ADDRESS

CONSIGNEE: WHO REC'D MAT'L: Foward Inc. | CONSIGNEE ADDRESS

DEBTOR: CONTRACTOR: E.O.A. | DEBTOR ADDRESS

LOCATION DRIVER REPORTED : | AND TIME : | MILEAGE : | WHEN ZONE RATES APPLY: PROD. AREA: DEL. ZONE: | YARDAGE CAPY IF APPLICABLE : CY

TAG NUMBER	WEIGHT	LOADING TIMES ARRIVE	LOADING TIMES DEPART	LEAVE SCALES	UNLOADING TIMES ARRIVE	UNLOADING TIMES DEPART	REMARKS
1		7:00				11:30	Load trucks
2							Move Dirt
3							clean up Job
4							Site
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							



TERMS: PAYMENT DUE BY 20TH OF FOLLOWING MONTH (Section 7106.6 of the California Business & Professions Code). A service charge of 1½% per month (18% per annum) will be charged on past due accounts. Debtor (Contractor) agrees to pay reasonable attorney fees and court costs in case of suit to collect.

DISPATCH TIME:

Ⓐ START TIME: 7:00

Ⓑ ELAPSED RUNNING TIME (LOADED TRAVEL TIME) OF LAST LOAD IN MINUTES:

Ⓒ LINE Ⓑ ADDED TO LAST UNLOAD TIME IS END TIME: 11:30

Ⓓ FROM LINE Ⓐ TO LAST LOAD OR WEIGH TIME PLUS DOUBLE LINE Ⓑ PLUS LINE Ⓒ OR ELAPSED TIME FROM LINE Ⓒ TO LINE Ⓒ IS TOTAL TIME: 4½

Ⓔ TIME THAT DEBTOR SHOULD NOT HAVE TO PAY FOR (SHOW DOWN TIME LUNCH, ETC IN REMARKS SECTION) DEDUCTIONS:

Ⓕ ELAPSED UNLOADING TIME OF LAST LOAD IN MINUTES

LINE Ⓓ LESS LINE Ⓔ IS NET TIME: 4½

DRIVER'S SIGNATURE X Garth Shelton

UNDERLYING CARRIER

ADDRESS

SUBHAULER'S CAL T-NO

LICENSE NUMBERS: TRUCK | SEMI | PULL

TRUCK NO. 936 cat

NO. OF AXLES: 2

CHECK IF UNDER 56 BETWEEN 1ST AND LAST AXLES ☐

RATE AND CHARGES | TONS OR HRS. | RATE | AMOUNT DUE

CONSIGNEE SIGNATURE

m-17

VEHICLE I.D. 4P02082
VEHICLE IVD9068
TRAILER M17
TRAILER

24.40

J & O's
TRUCK & AUTO CENTER

WEIGHMASTER CERTIFICATE 19498

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

REMARKS

UNITS	COMMODITY	LBS.		PRINT NAME OF WEIGHMASTER ABOVE ↑	DATE
	Dirt	GROSS	79160	DEPUTY BY Rhonda LaRosa	11/25/92
		TARE	30360	DEPUTY BY Nancy Peterson	11/25/92
☐ D.C.	MARK	NET	49800	CARRIER Manley & Sons	
MERCHANDISE DELIVERED TO BUYER Forward Land Fill Stockton		HAY ONLY ADDRESS		DRIVER'S NAME Charlie	
WEIGHED FOR				WEIGHING LOCATION	
SHIPPER OR SELLER EOA		HAY ONLY ADDRESS			

CHECK IF APPLICABLE: EARTH, STONE, SAND OR GRAVEL DRIVER ON ☐ GROSS & TARE

J & O's
TRUCK & AUTO CENTER
1107 5th STREET
OAKLAND, CA 94607

---

m-7

VEHICLE I.D. 2W67199
VEHICLE W09319
TRAILER
TRAILER

23.70

J & O's
TRUCK & AUTO CENTER

WEIGHMASTER CERTIFICATE 19653

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

REMARKS

UNITS	COMMODITY	LBS.		PRINT NAME OF WEIGHMASTER ABOVE ↑	DATE
	Dirt	GROSS	77600	DEPUTY BY Rhonda LaRosa	11/26/92
		TARE	30200	DEPUTY BY Nancy Peterson	11/25/92
☐ D.C.	MARK	NET	47400	CARRIER	
MERCHANDISE DELIVERED TO BUYER Forward Land Fill Stockton		HAY ONLY ADDRESS		DRIVER'S NAME Steve	
WEIGHED FOR				WEIGHING LOCATION	
SHIPPER OR SELLER OAE		HAY ONLY ADDRESS			

CHECK IF APPLICABLE: EARTH, STONE, SAND OR GRAVEL DRIVER ON ☐ GROSS & TARE

J & O's
TRUCK & AUTO CENTER
1107 5th STREET
OAKLAND, CA 94607

M-11

VEHICLE I.D. 4P43397
VEHICLE 1W4845
TRAILER M11
TRAILER

J & O's TRUCK & AUTO CENTER

WEIGHMASTER CERTIFICATE 19497

22:13

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

REMARKS

UNITS	COMMODITY		LBS.
	Dirt	GROSS	76700
		TARE	32,440
☐ D.C.	MARK	NET	44,260

PRINT NAME OF WEIGHMASTER ABOVE ↑ | DATE
DEPUTY BY Nancy Peterson 11/25/92
DEPUTY BY Nancy Peterson 11/25/92

MERCHANDISE DELIVERED TO BUYER Forward Landfill Stockton
WEIGHED FOR
HAY ONLY ADDRESS

CARRIER J Manley & Sons
DRIVER'S NAME Tim
WEIGHING LOCATION

SHIPPER OR SELLER EOA
HAY ONLY ADDRESS

CHECK IF APPLICABLE: EARTH, STONE, SAND OR GRAVEL DRIVER ON ☐ GROSS & TARE

J & O's TRUCK & AUTO CENTER
1107 5th STREET
OAKLAND, CA 94607

M-10

VEHICLE I.D. 3C73654
VEHICLE 1WN5821
TRAILER
TRAILER

J & O's TRUCK & AUTO CENTER

WEIGHMASTER CERTIFICATE 19495

22:53

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

REMARKS

UNITS	COMMODITY		LBS.
	Dirt	GROSS	76,620
		TARE	31,560
☐ D.C.	MARK	NET	45,060

PRINT NAME OF WEIGHMASTER ABOVE ↑ | DATE
DEPUTY BY Nancy Peterson 11/25/92
DEPUTY BY Nancy Peterson 11/25/92

MERCHANDISE DELIVERED TO BUYER Forward Landfill Stockton
WEIGHED FOR
HAY ONLY ADDRESS

CARRIER J Manley & Sons
DRIVER'S NAME Mark
WEIGHING LOCATION

SHIPPER OR SELLER EOA
HAY ONLY ADDRESS

CHECK IF APPLICABLE: EARTH, STONE, SAND OR GRAVEL DRIVER ON ☐ GROSS & TARE

J & O's TRUCK & AUTO CENTER
1107 5th STREET
OAKLAND, CA 94607

m-21

VEHICLE I.D.
4L30445
VEHICLE
1VB8233
TRAILER

TRAILER

24.17

J & O's TRUCK & AUTO CENTER

WEIGHMASTER CERTIFICATE 19651

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

REMARKS

UNITS	COMMODITY	LBS.		PRINT NAME OF WEIGHMASTER ABOVE ↑	DATE
	Dirt	GROSS	78920	DEPUTY BY Ronda Pedar	11/25/92
		TARE	30.580	DEPOT BY Nancy Peterson	11/2592
☐ D.C.	MARK	NET	48 340	CARRIER Manley & Sons	

MERCHANDISE DELIVERED TO BUYER Forward land fill — HAY ONLY ADDRESS — DRIVER'S NAME Paul

WEIGHED FOR — WEIGHING LOCATION

SHIPPER OR SELLER OAE — HAY ONLY ADDRESS

CHECK IF APPLICABLE: EARTH, STONE, SAND OR GRAVEL DRIVER ON ☐ GROSS & TARE

J & O's TRUCK & AUTO CENTER
1107 5th STREET
OAKLAND, CA 94607

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m-3

VEHICLE I.D.
4A39558
VEHICLE
1UK8267
TRAILER
M3
TRAILER

20.59

J & O's TRUCK & AUTO CENTER

WEIGHMASTER CERTIFICATE 19500

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

REMARKS

UNITS	COMMODITY	LBS.		PRINT NAME OF WEIGHMASTER ABOVE ↑	DATE
	Dirt	GROSS	73320	DEPUTY BY Ronda Pedar	11/25/92
		TARE	32.140	DEPUTY BY Nancy Peterson	11/25/92
☐ D.C.	MARK	NET	41.180	CARRIER Manley & Son	

MERCHANDISE DELIVERED TO BUYER Forward land fill Stockton — HAY ONLY ADDRESS — DRIVER'S NAME Ron

WEIGHED FOR — WEIGHING LOCATION

SHIPPER OR SELLER OAE — HAY ONLY ADDRESS

CHECK IF APPLICABLE: EARTH, STONE, SAND OR GRAVEL DRIVER ON ☐ GROSS & TARE

J & O's TRUCK & AUTO CENTER
1107 5th STREET
OAKLAND, CA 94607