COPY

Report on

UNDERGROUND TANK REMOVAL ACTIVITIES
APL CONTAINER YARD EARTHQUAKE REPAIR
1395 Middle Harbor Road
Oakland, California

Prepared for:

Port of Oakland
Oakland, California

November 1990

Prepared by:

BASELINE ENVIRONMENTAL CONSULTING
5900 Hollis Street, Suite D
Emeryville, California 94608
(415) 420-8686

S9-134.40

PORT OF OAKLAND

December 10, 1990

Mr. Dennis Byrne
Alameda County
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621

SUBJECT: UNDERGROUND TANK REMOVALS AT APL CONTAINER YARD, 1395 MIDDLE HARBOR ROAD, OAKLAND, CALIFORNIA

Dear Mr. Byrne:

Enclosed please find the report on underground tank removal activities at 1395 Middle Harbor Road in Oakland, California. A copy of the report has also been forwarded to the Regional Water Quality Control Board, San Francisco Bay Region.

If you have any questions or require additional information, please contact me at 272-1178.

90 DEC 12 AM

Sincerely,

Andrew B. Clark-Clough

Andrew B. Clark-Clough
Environmental Scientist

272-1178

ABC/ABC

cc: Tom Gandesbery - RWQCB

530 Water Street ■ Jack London's Waterfront ■ P.O. Box 2064 ■ Oakland, California 94604-2064
Telephone (415) 272-1100 ■ Fax 272-1172 ■ Telex 336-334 ■ Cable address, PORTOFOAK, Oakland

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Port of Oakland/APL Container Yard

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BASELINE

ENVIRONMENTAL CONSULTING

20 November 1990
S9-134.40

Mr. Andrew Clark-Clough
Environmental Department
Port of Oakland
530 Water Street
Oakland, CA 94607-2064

Subject: Underground Tank Removals at APL Container Yard Earthquake Repair, 1395 Middle Harbor Road, Oakland, California

Dear Mr. Clark-Clough:

Enclosed please find seven copies of our report on underground tank removal activities at 1395 Middle Harbor Road in Oakland, California. Copies of the report should be sent to Alameda County Department of Environmental Health and to the Regional Water Quality Control Board, San Francisco Bay Region.

If you have any questions or require additional information, please do not hesitate to contact us at your convenience.

Sincerely,

Yane Nordhav
Principal
Reg. Geologist No. 4009

Irene Kan, M.P.H
Vice President

YN:IK:cr/S9-134
Enclosure

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Report on

UNDERGROUND TANK REMOVAL ACTIVITIES
APL CONTAINER YARD EARTHQUAKE REPAIR
1395 Middle Harbor Road
Oakland, California

Prepared for:

Port of Oakland
Oakland, California

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APL CONTAINER YARD EARTHQUAKE REPAIR

INTRODUCTION

The Port of Oakland (PORT) has removed four underground storage tanks from its property in the Middle Harbor Terminal, Oakland (see Figure 1). The tanks were removed from 1395 Middle Harbor Road, a site currently occupied by American President Companies (also referred to as American President Line, or APL), a container shipping firm.[1] The four underground tanks were removed as part of the PORT's APL Container Yard Earthquake Repair, Middle Harbor Terminal Project, a four-month project to repair pavement, storm drains, and subsurface utility structures that were damaged during the October 1989 earthquake.

The purpose of this report is to provide documentation that tank removal activities were performed in accordance with the requirements of the Alameda County Department of Environmental Health (County) and with the guidelines established by the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) for removal of underground tanks.

SCOPE OF WORK

The PORT retained BASELINE to obtain underground tank closure permits from the County and from the City of Oakland Fire Department, collect soil and groundwater samples, coordinate with regulatory agencies, supervise excavation and disposal/treatment of soils containing petroleum hydrocarbons, and document tank removal and sampling activities. The PORT retained O. C. Jones and Sons, general contractors, of Berkeley, California to perform the earthquake repair work, including the removal of the four underground tanks. IT Corporation of Martinez, California, a subcontractor to O. C. Jones and Sons, was responsible for tank removals, associated soil excavation, and site restoration.

BACKGROUND

The site is located in the northwestern portion of the City of Oakland, adjoining Oakland Middle Harbor. Railway shipping terminals are located along the adjacent waterfront areas north and west of the APL facility; Schnitzer Steel, a scrap metal yard, is located to the east.

Tank locations in the APL facility are depicted in Figure 1. Three of the removed tanks were located at the "M & R Building" and a fourth tank, at the wharf area.[2] Tanks EF11, EF12, and EF13 (M & R Building location) were single-wall steel tanks installed in 1975 and inactivated before 1987. Tank EF11 was a 2,000-gallon tank used for storage of gasoline; tank EF12 was a 10,000-gallon tank used for storage of diesel; and tank EF13 was a 550-gallon tank used for storage of waste oil.

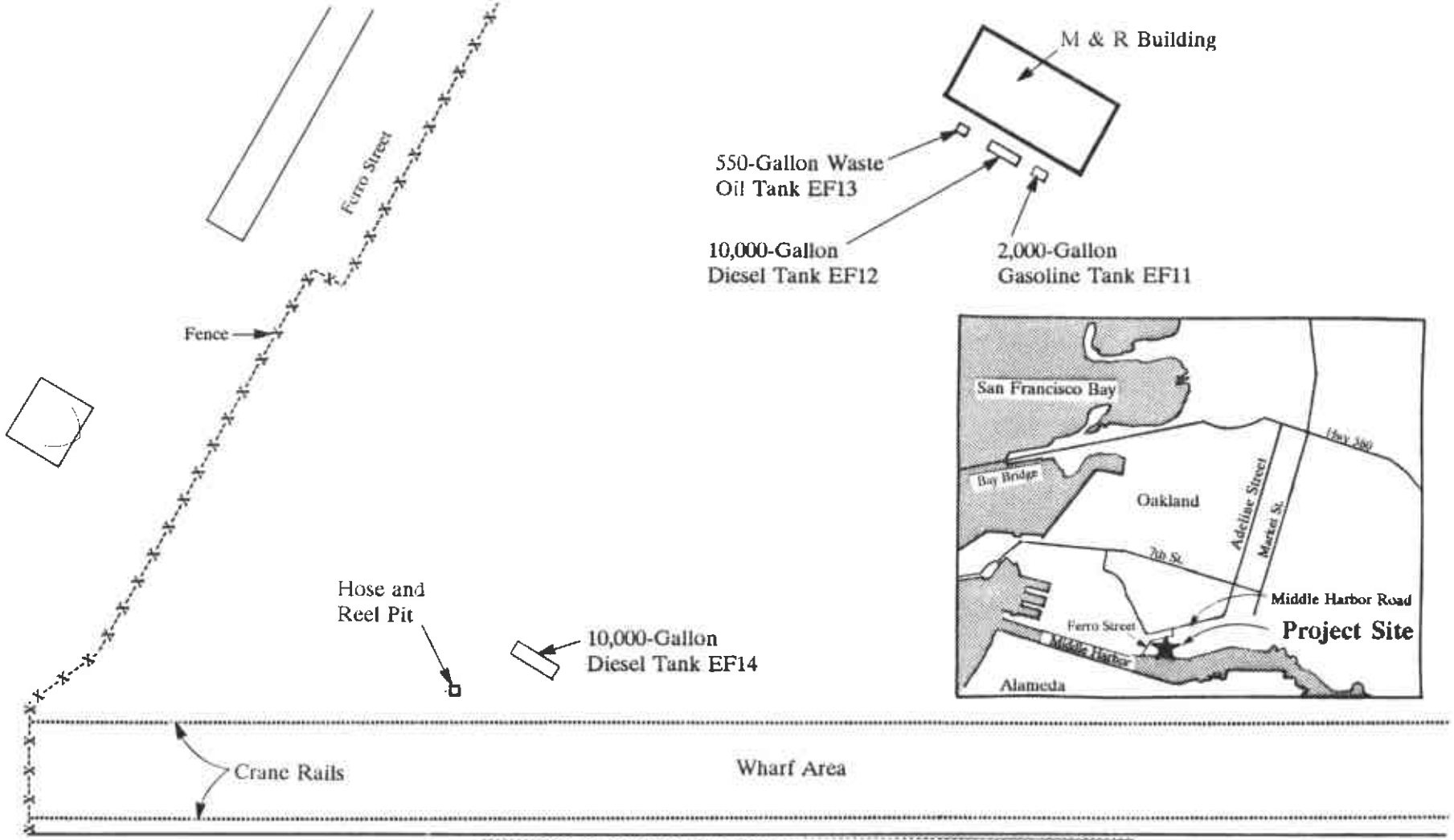
[1]The tanks were located at the 1579 Middle Harbor Road address when the site was occupied by the former U.S. Lines. The tanks became part of 1395 Middle Harbor Road when American President Companies assumed operational responsibility for the facilities at 1579 Harbor Road.

[2]"M & R Building" is PORT nomenclature; the building is referred to by APL as the "Rigging Loft Building."

REGIONAL LOCATION AND SITE MAP

Figure 1

Underground Tank Removal
American President Companies ("APL")
Container Yard Earthquake Repair



1395 Middle Harbor Road
Oakland, California

Source: Jordan Woodman Dobson Architecture Engineering, May 1990.

BASELINE

S9-134.40

11/5/90

Tank EF14 (wharf location) was a 10,000-gallon, single-wall fiberglass tank installed in 1975 for storage of diesel and inactivated before 1987. Fuel was dispensed from a hose and reel pit located approximately 67 feet west of the tank.

Prior to site activities, BASELINE obtained permits from the County and the City of Oakland Fire Department to remove the underground tanks. BASELINE also notified the Bay Area Air Quality Management District (BAAQMD) of the tank removals. Copies of the tank closure permits and BAAQMD notification are included as Appendix A.

FIELD ACTIVITIES

Field activities for removal of the underground tanks consisted of: 1) observation and documentation of tank removal activities, including verification sampling of the tank excavation areas, and 2) soil sampling for management of excavated soils.

Tank Removal

In preparation for removal of the tanks, Refinery Services of Patterson, California, disposed of residual liquid from all of the tanks using a vacuum truck, and IT Corporation displaced residual combustible vapors using carbon dioxide. A copy of the hazardous waste manifest for the residual tank liquid is included as Appendix B.

The tanks were removed after inspections by representatives of the County and the Oakland Fire Department verified that the lower explosive limit (LEL) readings within the tanks were within the acceptable range. All tanks were transported by Erickson, Inc. to their facility in Richmond, California, for cleaning and dismantling; the tanks were disposed of as scrap metal at LMC Corporation in Richmond (except for the fiberglass tank EF14). Copies of the hazardous waste manifests and certificates of disposal for the tanks are included as Appendix B. Fiberglass tank EF14 was disposed of at a Class III landfill, BFI Waste System in Livermore, California.

After removal of tanks, associated pipelines, and dispensing equipment, and after excavation of apparent contaminated soils, soil samples from the side walls and/or bottom of the excavations were collected by a backhoe at depths and locations identified by the BASELINE field person in the presence of a representative of the Alameda County Department of Environmental Health.

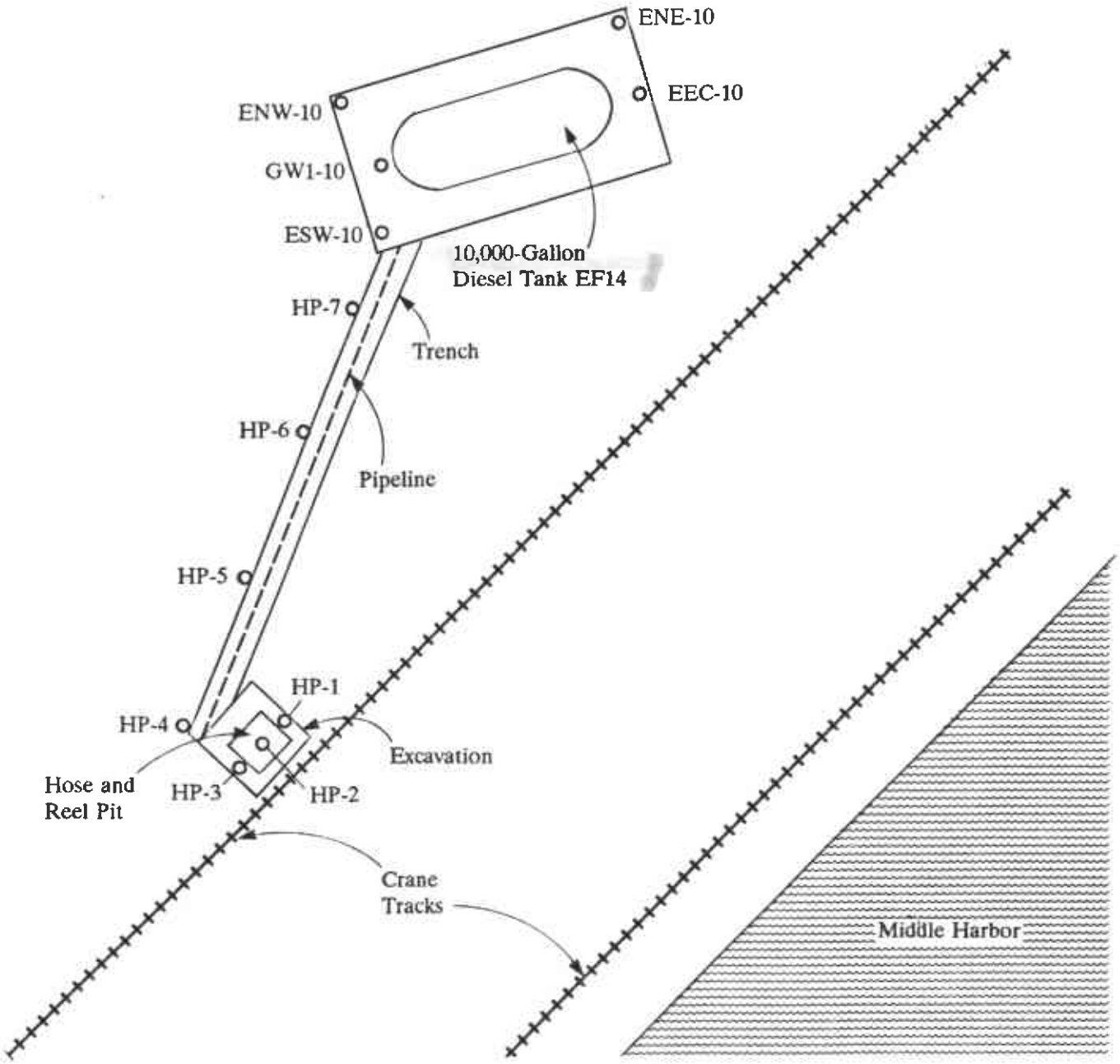
The soil samples were collected after removal of about six inches of the surface soil; a brass liner was driven into the soil mass, then removed and capped with aluminum foil and plastic caps, sealed with tape, placed in a ziplock bag, and placed in a cooled container. All samples were delivered to Curtis & Tompkins Laboratory in Berkeley for analysis, following strict chain-of-custody and sample labeling procedures. The laboratory reports and chain-of-custody documents are included as Appendix C. Tank removal activities and analytical results for soils collected from each of the excavation areas are described below.

Tank EF14 (Wharf Location)

IT Corporation removed tank EF14 on 30 August 1990 (Figure 2). BASELINE observed a number of cracks along the fiberglass tank seams during its removal. Groundwater accumulated in the excavation at a depth of approximately 10 feet below the ground surface. The tank invert was located 12 feet below the ground surface.

SOIL SAMPLING LOCATIONS
Tank EF14 (Wharf Area)

Figure 2



American President Companies ("APL")
1395 Middle Harbor Road
Oakland, California

Approximate
0 20 Feet

BASELINE

TABLE 1

ANALYTICAL RESULTS, VERIFICATION SAMPLING, SOIL AND GROUNDWATER
APL Container Yard Earthquake Repair
1395 Middle Harbor Road, Oakland[1]
Tank EF14 (Wharf Area)
(mg/kg, except where noted)

Sample Location[2]	Date Sampled	Sample Depth (feet)	Diesel	Benzene	Toluene	Xylenes	Ethyl-benzene
Tank EF14 Excavation							
EEC-10	8/30/90	10.0	ND	ND	ND	ND	ND
ENE-10	8/30/90	10.0	ND	ND	ND	ND	ND
ENW-10	8/30/90	10.0	ND	ND	ND	ND	ND
ESW-10	8/30/90	10.0	ND	ND	ND	ND	ND
GW1-10 (mg/L)[3]	8/30/90	11.0	NA	ND	ND	ND	ND
Hose and Reel Pit							
P-1-4[4]	8/30/90	4.0	14,000	ND	ND	0.320	0.038
HP-1	9/11/90	5.0	2.1	ND	ND	0.010	ND
HP-2	9/11/90	5.0	200 ⊕	ND	ND	0.0091	ND
HP-3	9/11/90	4.0	2.7	ND	ND	0.0073	ND
Trench							
HP-4	9/11/90	3.0	1.8	ND	ND	0.0061	ND
HP-5	9/11/90	2.75	5.3	ND	ND	0.0073	ND
HP-6	9/11/90	2.75	9.7	ND	ND	0.010	ND
HP-7	9/11/90	2.5	2.3	ND	ND	0.0052	ND
EPA Method:[5]			8015M	5030/8020	5030/8020	5030/8020	5030/8020
Detection Limit (mg/kg):			1.0	0.005	0.005	0.005	0.005

Gravel backfill material which was removed.

HP-2 collected beneath this location.

1 Tank EF14, a 10,000-gallon diesel tank, was located at the 1579 Middle Harbor Road address until APL assumed operational responsibility for the site. The tank is now considered part of 1395 Middle Harbor Road.

2 *In situ* samples collected after completion of overexcavation activities. Sampling locations are shown in Figure 2; laboratory reports are included as Appendix C. All samples, except for sample P-1-4, represent the quality of the soil remaining in the ground after excavation.

3 Groundwater sample; not analyzed for diesel in laboratory due to insufficient sample volume.

4 Sample P-1-4 was also analyzed for Title 26 metals, pH, acute aquatic toxicity, and volatile organics to determine whether the soils would be classified as hazardous waste according to CCR Title 26. The analytical results indicated that the soils would not be considered hazardous waste (laboratory report in Appendix C). The sample material was excavated and stockpiled on plastic.

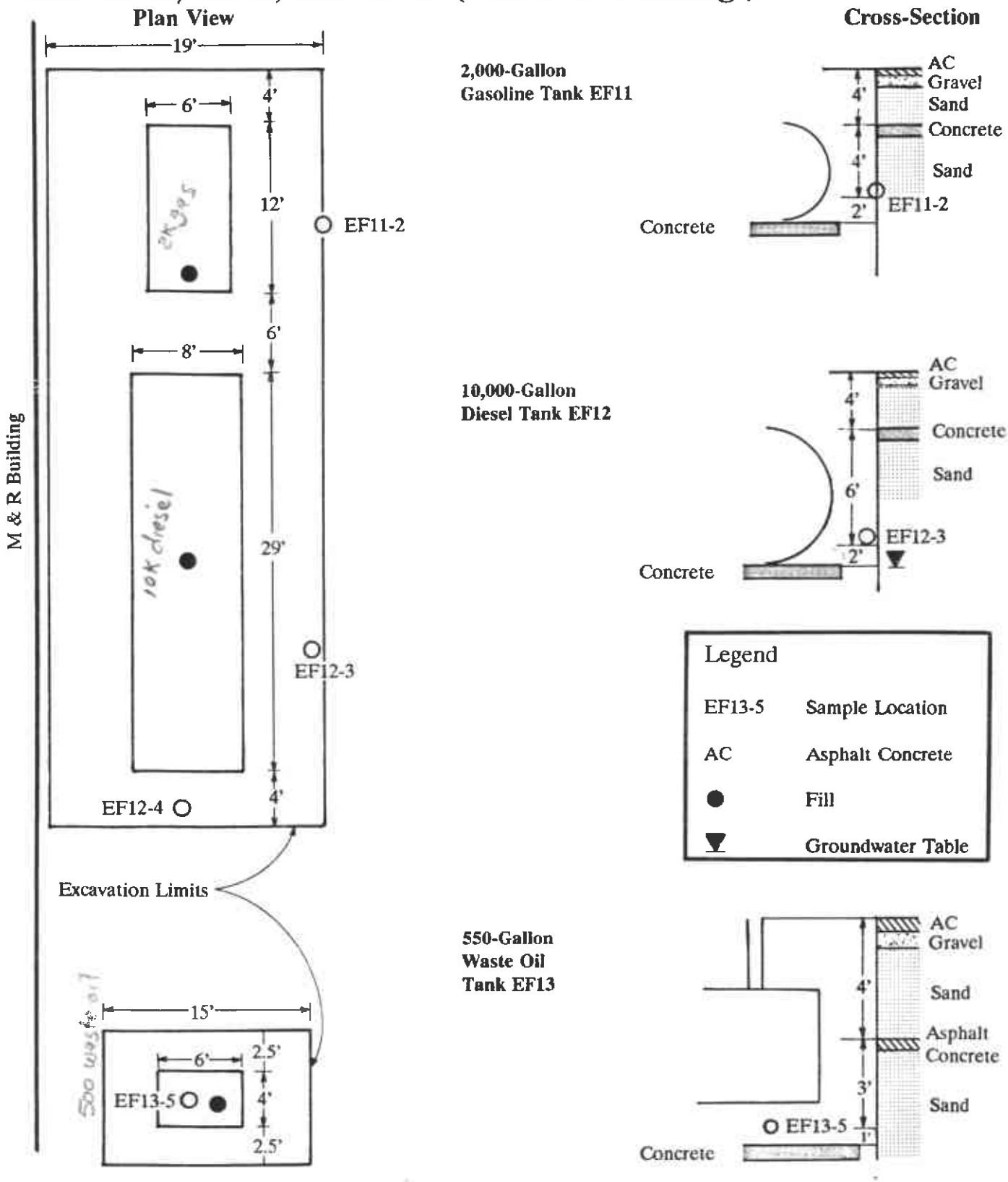
5 Soils analytical method only.

⊕ hit remaining in place

Notes: ND = None detected.
NA = Not analyzed.

SOIL SAMPLING LOCATIONS
Tanks EF11, EF12, and EF13 (" M & R Building")

Figure 3



American President Companies ("APL")
1395 Middle Harbor Road
Oakland, California

BASELINE

TABLE 2

ANALYTICAL RESULTS, SOILS AND GROUNDWATER
APL Container Yard Earthquake Repair
1395 Middle Harbor Road, Oakland[1]
Tanks EF11, EF12, EF13 (M & R Building[2])
(mg/kg, except where noted)

Sample Location[3]	Date Sampled	Sample Depth (feet)	Diesel	Gasoline	Oil and Grease	Benzene	Toluene	Xylenes	Ethyl-benzene	Organic Lead	Metals[4]	Volatile Organics	Semi-Volatile Organics
Tank EF11													
EF11-1	9/05/90	8.0	NA	8.3	NA	0.024	ND	0.130	0.096	ND	NA	NA	NA
EF11-2	9/05/90	8.0	NA	1.7	NA	0.036	ND	0.010	0.070	ND	NA	NA	NA
Tank EF12													
EF12-3	9/05/90	10.0	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA
EF12-4	9/05/90	10.0	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA
GW6/GW7[5]	9/05/90	11.5	5.8	NA	NA	ND	0.009	0.008	ND	NA	NA	NA	NA
Tank EF13													
EF13-5[6]	9/05/90	7.0	NA	NA	94	NA	NA	NA	NA	NA	Cd 0.6 Cr 15.0 Pb ND Zn 28.0	ND	ND
EPA Method:[7]				8015M	8015M	503E[7]	5030/8020	5030/8020	5030/8020		7420[9]	6010[8]	5030/8240/8270
Detection Limit (mg/kg):			10.0	10.0	0.005	0.005	0.005	0.005	0.005	0.5	Rept.	Rept.	Rept.

1 Tanks EF11, EF12, and EF13 were located at the 1579 Middle Harbor Road address until APL assumed operational responsibility for the site. The tanks are now considered part of 1395 Middle Harbor Road.
2 Referred to by APL as the Rigging Loft Building.
3 All samples were collected in place after completion of overexcavation activities (except for sample EF13-5). Sampling locations are shown in Figure 3; laboratory reports are included in Appendix C.
4 Cd = Cadmium, Cr = Chromium (total), Pb = Lead, and Zn = Zinc.
5 Groundwater sample; results reported as mg/L.
6 Sampled material subsequently excavated and stockpiled. Due to presence of oil and grease, excavated materials were transported to PORT site for bioremediation (see Soils Management).
7 Soils analytical methods only.
8 Source: Standard Methods for the Examination of Water and Wastewater.
9 EPA Method 7420 used for analysis of lead.

Notes: NA = Not analyzed.
ND = None detected.
Rept. = See laboratory report in Appendix C.

GW pit recharge TPHd

The accumulated water was evacuated by a vacuum truck (Laidlaw Environmental) and the groundwater allowed to recharge before a sample was collected (see Appendix B for the manifest). Insufficient water accumulated in the tank excavation to allow for collection of samples for analysis of total petroleum hydrocarbons (TPH). Samples were collected in VOA containers for analysis of the volatile compounds benzene, toluene, xylenes, and ethylbenzene (BTXE). Laboratory analysis indicated no detectable levels of BTXE. Analytical results for in-place soil and groundwater samples collected in the former tank EF14 area are discussed below for three components of removal: 1) tank excavation, 2) hose and reel pit, and 3) pipeline trench. All sample results shown in Table 1, except for P-1-4 collected in the hose and reel pit, represent the quality of soil remaining in the ground after excavation.

Tank Excavation. Four in-place soil samples (EEC-10, ENE-10, ENW-10, and ESW-10) were collected in the excavation side walls at a depth of approximately 10 feet below the ground surface following overexcavation activities (Figure 3). The invert of tank EF14 was 12 feet below the ground surface. The sampled soils consisted of sandy fill material. Laboratory analyses indicated that none of the samples contained detectable levels of diesel or BTXE. Table 1 contains a summary of the analytical results.

Hose and Reel Pit. The hose and reel pit and approximately 67 feet of pipeline associated with tank EF14 were removed on 11 September 1990. The hose and reel pit consisted of a concrete vault approximately 7 feet by 7 feet by 4 feet in depth and contained a pump and fuel dispensing equipment. A total of four soil samples were collected in the area of the former hose and reel pit (Figure 2). Sample P-1-4 was collected in the gravel immediately underlying the concrete floor (prior to removal of the vault). The sample contained 14,000 mg/kg diesel, 0.320 mg/kg xylenes, and 0.038 mg/kg ethylbenzene.[3] The gravels were subsequently removed from the pit and stockpiles (see Soils Management).

Samples HP-1 and HP-3 were collected from the side walls and sample HP-2 was collected in-place from the bottom of the hose and reel pit after removal of the vault and completion of overexcavation. These samples contained residual diesel hydrocarbons ranging from 2.1 mg/kg to 200 mg/kg and residual xylenes ranging from 0.0073 to 0.01 mg/kg. Benzene, toluene, and ethylbenzene were not detected in these samples.

Pipeline Trench. Four soil samples (HP-4, HP-5, HP-6, and HP-7) were collected in the bottom of the trench at 20-foot intervals. The trench formerly contained the pipeline connecting tank EF14 to the hose and reel pit. The samples contained diesel hydrocarbons at concentrations ranging from 1.8 to 9.7 mg/kg and xylenes at concentrations ranging from 0.0052 to 0.01 mg/kg. Benzene, toluene, and ethylbenzene were not detected.

Excavated soils were placed in stockpiles on plastic for subsequent sampling to determine disposal or treatment options (see Soils Management). Final dimensions of the diesel tank (EF14) excavation were 21 feet by 38 feet by 12 feet deep. Final dimensions of the hose and reel pit excavation were 10 feet by 10 feet by 5 feet deep. The trench excavation was 65 feet by 5 feet by 3 feet deep.

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[3]Sample P-1-4 was analyzed further to verify that the gravel was not hazardous waste according to California Code of Regulations (CCR) Title 26. The analytical results (Appendix C) indicated the presence of metals at levels below the CCR Title 26 TTLCs and below ten times the STLCs. Acetone and 2-butanone were detected in sample P-1-4 by EPA Method 8240 at concentrations of 0.13 and 0.065 mg/kg, respectively. The flash point of sample P-1-4 was 177° C. The pH was 11.8 standard units. A 96-hour static acute bioassay of sample P-1-4 yielded an LC_{50} of greater than 750 mg/L.

Tanks EF11, EF12, and EF13 (M & R Building)

IT Corporation removed tanks EF11, EF12, and EF13 and associated pipelines on 5 September 1990. Two excavations were created to remove the tanks: tanks EF11 and EF12 were located in one excavation and tank EF13, in a second excavation (Figure 3). All tanks had been strapped down to concrete pads. Upon removal of the three tanks, BASELINE did not observe evidence of corrosion or holes in the tanks.

Gasoline odors were detected by the excavating contractor during excavation of tank EF11. Groundwater accumulated at a depth of 11.5 feet in the west end of the excavation (former location of [redacted]). A groundwater sample (GW6/GW7) was collected for laboratory analysis. The sample contained 5.8 mg/kg of diesel, 0.0009 mg/kg of toluene, 0.0008 mg/kg of xylenes; no detectable levels of benzene or ethylbenzene were identified. Groundwater was not encountered at the eastern portion of the excavation (former location of the [redacted]), which was excavated to a depth of only 10 feet.[4]

pit + leakage ?

BASELINE collected two soil samples at each end of former tanks EF11 and EF12 (a total of four samples) to determine whether releases of product had occurred. Soil samples consisted of sandy fill material. The soil samples EF11-1 and EF11-2 were collected from the side walls of tank EF11 excavation area at a depth of 8 feet. The samples contained 8.3 and 1.7 mg/kg of gasoline, 0.024 and 0.036 mg/kg of benzene, 0.13 and 0.01 mg/kg of xylenes, and 0.096 and 0.07 mg/kg of ethylbenzene, respectively. Organic lead was not detected in either sample.

The soil samples EF12-3 and EF12-4 were collected from the side walls of the tank EF12 excavation area at a depth of 10 feet below the ground surface. The samples contained no detectable concentrations of petroleum hydrocarbons. The groundwater sample collected in the excavation (GW6/GW7) contained 5.8 mg/L diesel, 0.009 mg/L toluene, and 0.008 mg/L xylenes.

After removal of tank EF13, BASELINE collected one soil sample (EF13-5) in the excavation at a depth of approximately 1 foot below the former tank invert (7 feet). The soils at this depth appeared to be stained. Sample EF13-5 was analyzed in the laboratory as containing 94 mg/kg of oil and grease, no detectable volatile organics (EPA Method 8240), no detectable semi-volatile organics (EPA Method 8270), 0.6 mg/kg of cadmium, 15 mg/kg of chromium, no detectable levels of lead, and 28 mg/kg of zinc. No odors were detected in the excavation for tank EF13 and no groundwater was observed in the former tank area.

Based on groundwater sampling results for tank EF12 and on analytical results of soil sampling in the tank EF11 and EF13 excavations, the former tank areas were overexcavated to remove soils that could contain petroleum hydrocarbons. Vertical excavation was limited by the presence of concrete pads (Figure 3). Excavated soils were placed on plastic for subsequent sampling (see Soils Management).

Final dimensions of the excavation for tanks EF11 and EF12 were 55 feet by 19 feet; the depths in the areas of former tanks EF11 and EF12 were 12 feet and 10 feet, respectively. Final dimensions of the excavation for tank EF13 were 15 feet by 9 feet by 7 feet deep.

Unauthorized Release/Contamination Site Reports

Based on the soils and groundwater sampling results and on visual observations of tank failure (tank EF14), Underground Storage Tank Unauthorized Release/Contamination Site Reports were completed for tanks EF11, EF12, EF13, and EF14. The reports are included in Appendix D.

[4]The inverts of tanks EF11 and EF12 were located at depths of 10 and 12 feet, respectively, below the ground surface.

Soil Management

All excavated soils were stockpiled near the respective excavations. Soils potentially containing petroleum hydrocarbons were segregated and placed on plastic. The locations of the stockpiles generated by the excavation of tank EF14 (stockpiles A, B, C, D) and the hose and reel pit and pipeline excavation are shown in Figure 4. The stockpiles from the excavation of tanks EF11, EF12, and EF13 are shown in Figure 5.

Each stockpile was sampled to identify one of the following soil disposition methods: 1) use soils as backfill in the tank excavation (if no detectable levels of hydrocarbons), 2) transport soils to the PORT's soil treatment site at Langley and Doolittle streets in Oakland (if contaminated soils were not hazardous, as defined by CCR Title 26), or 3) transport soils to a Class I disposal site as hazardous waste. One soil sample was collected and analyzed for each 20 cubic yards of excavated soils to determine the appropriate disposal options for the soil. According to the RWQCB, soils may not be used as backfill unless sampling indicates that chemical constituents are not detected and the sampling frequency is one sample per 20 cubic yards.

All samples were collected by clearing six inches of soils from the sampling location in the stockpile and driving the hand sampler into the soil mass. After collection, samples were handled in the same manner as described above for sampling in the excavation areas. The stockpile analytical results indicated that the excavated soils did not contain petroleum hydrocarbons at levels that may render the soils hazardous. A total of approximately 332 cubic yards (cy) of soils containing petroleum hydrocarbons were transported to the PORT's site for treatment by Bay Area Tank and Marine of Pacheco, California. The remaining soils, those not containing petroleum hydrocarbons, were used as backfill on-site.

Soils transported to the Langley and Doolittle site were placed on plastic and covered with plastic. The site has been approved by the RWQCB for temporary bioremediation of non-hazardous waste soils. Soil treatment would be expected to require no more than three months and would be performed in accordance with a work plan and site safety plan that have been reviewed and approved by the RWQCB. Upon completion of soil treatment and verification sampling, soils would be used as fill on PORT property. The PORT would provide advance notification to the County and the RWQCB of all fill activities.

Specific stockpile sampling results and the disposition of the excavated soils are described below for the Wharf Area and M & R Building tanks.

Tank EF14 (Wharf Area)

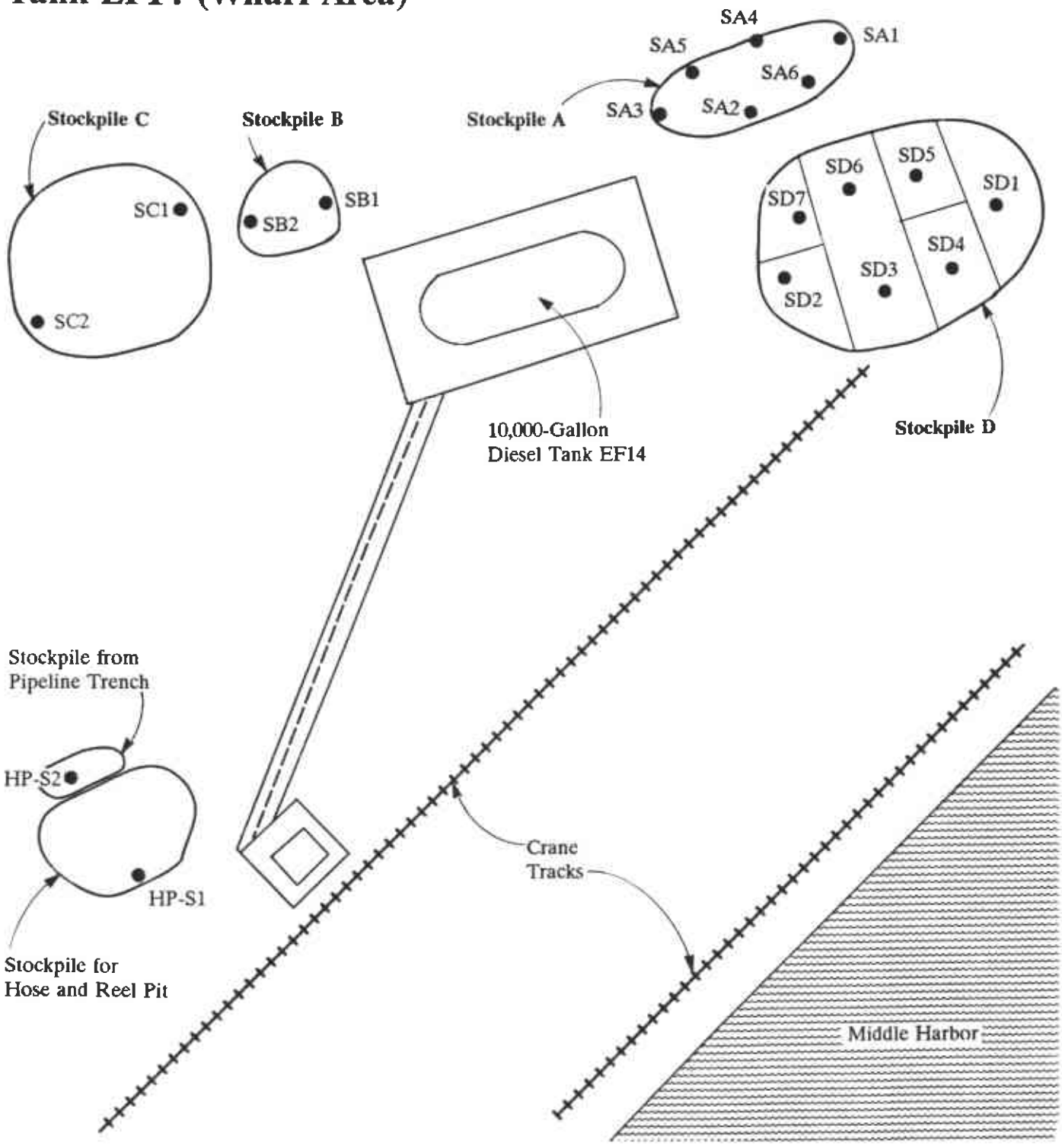
A total of 189 cy of soils were transported to the Langley and Doolittle site from tank EF14 pit and trench excavations combined. Analytical results for samples collected in the stockpiles of excavated soils are presented in Table 3; stockpile sampling locations are depicted in Figure 4. Based on the analytical results, stockpiles A, B, C, and portions of D (soils excavated from the former tank area) were transported to the PORT site at Langley and Doolittle streets for bioremediation. Two samples (SA-5 and SA-6), collected from stockpile A for further analyses, verified that these soils were not hazardous waste according to CCR Title 26.[5] Sample HP-S1 collected from the hose and reel pit spoils was analyzed for volatile organics by EPA Method 8240 because organics had been detected in another sample, P-1-4, from the hose and reel pit. Volatile organics were not detected.

Stockpile D soils were used as backfill with the exception of soils in the vicinity of sampling location SD-6. Approximately 20 cubic yards from this sampling location were transported to the Langley and Doolittle site for bioremediation. Based on the analytical results, all soils and gravels excavated from the former hose and reel pit area and pipeline excavation were transported to the Langley and Doolittle site for bioremediation.

[5]Verification that the soils were not hazardous waste was performed to ensure compliance with the RWQCB conditions for approval of the Langley and Doolittle site as a soils treatment area.

STOCKPILED SOIL SAMPLING LOCATIONS
Tank EF14 (Wharf Area)

Figure 4



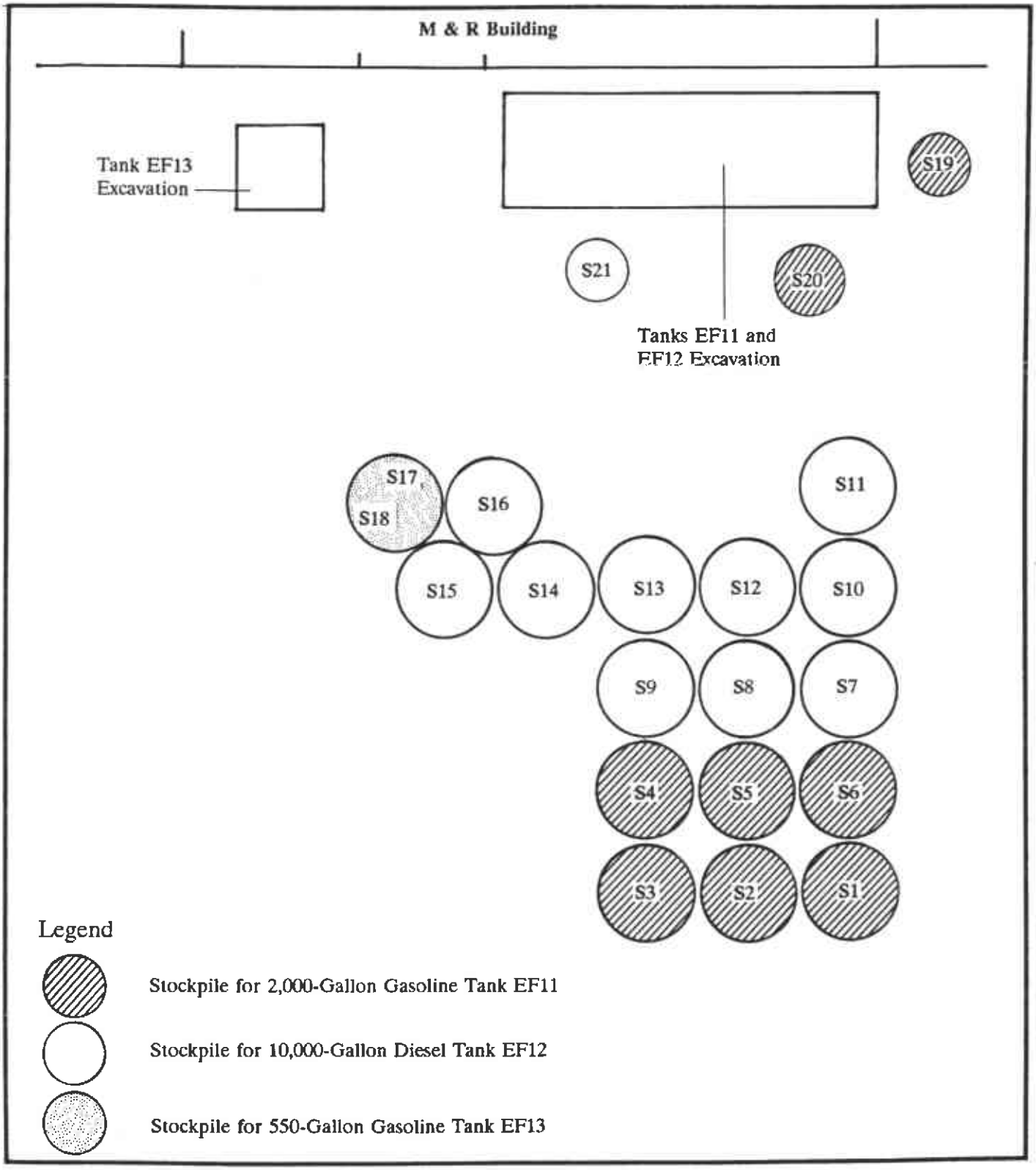
American President Companies ("APL")
1395 Middle Harbor Road
Oakland, California

Approximate
0 20 Feet

BASELINE

STOCKPILED SOIL SAMPLING LOCATIONS
Tanks EF11, EF12, and EF13 ("M & R Building")

Figure 5



American President Companies ("APL")
1395 Middle Harbor Road
Oakland, California

Not to Scale

BASELINE

TABLE 3

ANALYTICAL RESULTS, STOCKPILED SOILS
APL Container Yard Earthquake Repair
1395 Middle Harbor Road, Oakland
Tank EF14 (Wharf Area)

(mg/kg)

Source of Soils and Sample I.D.[1]	Date Sampled	Diesel	Benzene	Toluene	Xylenes	Ethyl-benzene
Tank EF14						
Stockpile A						
SA-1,2,3,4*	8/30/90	130	ND	ND	ND	ND
SA-5[2]	8/30/90	NA	NA	NA	NA	NA
SA-6[2]	8/30/90	NA	NA	NA	NA	NA
Stockpile B						
SB-1,2*	8/30/90	390	ND	ND	ND	ND
Stockpile C						
SC-1,2*	8/30/90	120	ND	ND	ND	ND
Stockpile D						
SD-1,2*	8/30/90	ND	ND	ND	ND	ND
SD-3	9/04/90	ND	ND	ND	ND	ND
SD-4	9/04/90	ND	ND	ND	ND	ND
SD-5	9/04/90	ND	ND	ND	ND	ND
SD-6	9/04/90	120	ND	ND	ND	ND
SD-7	9/04/90	ND	ND	ND	ND	ND
Hose and Reel Pit Stockpile						
HP-S1	9/11/90	32	ND	ND	0.010	ND
Pipeline Stockpile						
HP-S2[4]	9/11/90	ND	ND	ND	0.0065	ND
EPA Method:		8015M	5030/8020	5030/8020	5030/8020	5030/8020
Detection Limit (mg/kg):		10.0	0.005	0.005	0.005	0.005

[1] Locations shown in Figure 4; laboratory results are in Appendix C.
[2] Samples SA-5 and SA-6 were collected from stockpile A to verify that these soils were not hazardous waste according to CCR Title 26. Sample SA-5 was analyzed for Title 26 metals. None were detected at levels greater than Title 26 STLCs or TTLCs.
[3] Sample SA-6 was analyzed by Kennedy/Jenks/Chilton Laboratory for aquatic toxicity by a 96-hour static acute bioassay. The LC_{50} exceeded 750 mg/L.
[4] Sample HP-S1 was also analyzed for volatile organics by EPA Method 8240 because a previous sample, P-1-4, collected in the hose and reel pit contained acetone and 2-butanone. Volatile organics were not detected in sample HP-S1.

Notes: * = Composited samples.
ND = None detected.
NA = Not analyzed.

TABLE 4

ANALYTICAL RESULTS, STOCKPILED SOILS
APL Container Yard Earthquake Repair
1395 Middle Harbor Road, Oakland[1]
Tanks EF11, EF12, EF13 (M & R Building[2])
(mg/kg)

Tank Excavation (stockpile source)	Stockpile	Sample Depth (feet)	Diesel	Gasoline	Oil and Grease	Benzene	Toluene	Xylenes	Ethyl-benzene	Cadmium	Chromium	Lead	Zinc	Volatile Organics	Semi-Volatile Organics
Tank EF11	S1	EF11	NA	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
(2,000-	S2	EF11	NA	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
gallon	S3	EF11	NA	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
gasoline)	S4	EF11	NA	ND	NA	0.0078	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S5	EF11	NA	1.5	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S6	EF11	NA	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Tank EF12	S7	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
(10,000-	S8	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
gallon	S9	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
diesel)	S10	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S11	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S12	EF12	41	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S13	EF12	50	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S14	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S15	EF12	63	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
	S16	EF12	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Tank EF13	S17	EF13	NA	NA	ND	NA	NA	NA	NA	1.3	15	23	37	ND	ND
(550-gallon	S18	EF13	NA	NA	ND	NA	NA	NA	NA	0.9	13	12	26	ND	ND
waste oil)															
EPA Method:			8015M	8015M	503E	5030/8020	5030/8020	5030/8020	5030/8020	6010	6010	5030/7420	3550/8270	8240	8270
Detection Limit (mg/kg):			10.0	10.0	50	0.005	0.005	0.005	0.005	0.5	0.5	2.5	0.5	Rept.	Rept.

Notes: NA = Not analyzed.
ND = None detected.
Sampling locations depicted in Figure 5; laboratory reports are included as Appendix C.
Samples collected on 5 September 1990.
Rept. = See laboratory report in Appendix C.
Stockpiles S19, S20, and S21 (see Figure 5) were not sampled. Stockpiles S19, S20, and S21 were not sampled because the soils would be transported to the Langley and Doolittle site for treatment. Combustible vapor readings were elevated for stockpiles S19 and S20; stockpile S21 was assumed to contain diesel hydrocarbons in the same range as stockpiles S12 and S15.

Tanks EF11, EF12, and EF13 (M & R Building)

Soils excavated from these tank areas were stockpiled on plastic in piles of approximately 20 cubic yards or less and a sample collected from each stockpile. Analytical results for samples collected in the stockpiles of excavated soils are presented in Table 4; samples are identified by the number of the stockpile from which the sample was collected. Stockpile sampling locations are shown in Figure 5. A total of 145 cy were transported from the M & R Building tank removal excavations to the Langley and Doolittle site for soil treatment. Based on the analytical results, soils from stockpiles S4, S5, S19, and S20 were transported to the Langley and Doolittle site for aeration treatment; stockpiles S1, S2, S3, and S6 were used as backfill.[6]

Samples S7 through S16 were collected in the stockpiled soils excavated from former tank EF12 (10,000-gallon diesel tank) area. The analytical results indicated the presence of diesel hydrocarbons at 41 mg/kg (S12), 50 mg/kg (S13), and 63 mg/kg (S15). Benzene, toluene, xylenes, and ethylbenzene were not detected in any of the samples. Stockpile S21 was not sampled because the soils would be transported to the Langley and Doolittle site for bioremediation. Stockpiles S12, S13, S15, and S21 were transported to the Langley and Doolittle site for bioremediation treatment. The remaining stockpiles (S7 through S11, S14, and S16) were used as backfill.

Samples S17 and S18 were collected in the stockpiled soils excavated from the former tank EF13 (550-gallon waste oil tank) area. Although the analytical results for these samples indicated that there were no detectable levels of oil and grease, volatile or semi-volatile organics, and that metals were present at low levels, the soils were transported to the Langley and Doolittle site for bioremediation treatment. The stockpiles contained soils excavated from beneath tank; and a sample (EF13-5) collected in the former tank area before overexcavation activities contained 94 mg/kg of oil and grease (described in Tank Removal).

CONCLUSIONS AND RECOMMENDATIONS

Based on field observations and the analytical results from soil and groundwater sampling, the following conclusions can be drawn:

- Soil samples collected during and after tank removal activities indicate that unauthorized releases of hydrocarbons to soils underlying the site have occurred through operation of the four former underground storage tanks.
- The major sources of potential groundwater contamination posed by the four underground tanks have been removed.
- No obvious punctures, holes, or corrosion were observed on the walls of tanks EF11 (2,000-gallon gasoline), EF12 (10,000-gallon diesel), and EF13 (550-gallon waste oil). These tanks were located at the M & R Building.
- The results of analytical testing of *in situ* soils at the former tank EF11 area indicate that there are residual levels of gasoline hydrocarbons ranging from 1.7 to 8.3 mg/kg remain in the ground.

[6]Stockpiles S19 and S20 were not sampled because combustible vapor readings in the stockpiles indicated elevated levels (less than 100 ppm). Since the soils would require treatment to reduce hydrocarbon levels, sampling to ascertain whether the soils could be used as backfill was not necessary.

- The results of analytical testing of *in situ* soils at the former tank EF12 area indicate that there are no detectable residual levels of diesel hydrocarbons.

- All soils in the former tank EF13 area that were located between the underlying concrete and the tank invert have been removed.

- Observed cracks in tank EF14 (10,000-gallon diesel) at the wharf indicated that releases occurred as a result of tank failure; analytical results of samples collected in the former hose and reel pit and pipeline area indicate that releases occurred as a result of spillage. The results of analytical testing of in-situ soils at the former tank EF14 area indicate that there are: 1) no detectable residual levels of hydrocarbons in the former tank area; 2) residual levels of diesel hydrocarbons ranging from 2.1 to 200 mg/kg in the former hose and reel pit; and 3) residual levels of hydrocarbons in the former pipeline area ranging from 1.8 to 9.7 mg/kg.

No further actions are recommended for this site at the current time. The analytical results obtained as part of site activities will be part of a data base being developed by the Port of Oakland in cooperation with Alameda County Department of Environmental Health and the Regional Water Quality Control Board, San Francisco Bay Region. The purpose of the data base is to develop and design a regional monitoring program for the Port Area, including the project site, by the end of 1990.

LIMITATIONS

The conclusions presented in this report are professional opinions based on the indicated data described in this report. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the subject property can occur with time, because of natural processes or the works of man, on the subject sites or on adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

APPENDIX A

UNDERGROUND STORAGE TANK CLOSURE PERMITS AND NOTIFICATION OF BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

7/14/90

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name: Eagle Marine Services, Ltd.

   Business Owner: American President Companies

2. Site Address: 1579 Middle Harbor (APL Middle Harbor Rd. Terminal)

   City: Oakland Zip: 94607 Phone: 272-2040

3. Mailing Address: 1395 Middle Harbor Road

   City: Oakland Zip: 94607 Phone: 272-1178

4. Land Owner: Port Of Oakland

   Address: 530 Water Street City, State: Oakland, CA Zip: 94607

5. EPA I.D. No.: CAC00030113

6. Contractor: IT Corporation (O.C. Jones and Sons - Gen'l. Contractor)

   Address: 4575 Pacheco Boulevard

   City: Martinez Phone: 372-9100

   License Type: A,C33, C34, C61, C57 D38, B, Haz.Sub.Rem. ID#: 137422 (IT Corporation)

7. Consultant: Certificate Baseline Environmental Consulting

   Address: 5900 Hollis Street, Suite D

   City: Emeryville, CA Phone: 420-8686

COPY

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
TVH (gasoline)	5030	8015 Mod.
TEH (diesel)	3550	8015 Mod.
BTXE	5030	8020/602
Oil & Grease	3550	SMWW 503E
Chlorinated HC	5030	8240/624
Cd, Cr, Pb, Zn	3050/3010	ICP
TVH-D		GC FID 3550
TPH-G		GC FID 5030
BTXE		8020 or 8240
PCB, BNA, PNA, Cresols		8270

Waste Oil

18. Submit Site Safety Plan

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

Copy of Certificate enclosed? Yes [X] No [ ]

Name of Insurer National Union Fire Insurance Company (Insured: IT Corp.)

20. Plot Plan submitted? Yes [X] No [ ]

21. Deposit enclosed? Yes [X] No [ ]

22. Please forward to this office the following information within 60 days after receipt of sample results.

a) Chain of Custody Sheets

b) Original Signed Laboratory Reports

c) TSD to Generator copies of wastes shipped and received

d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

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

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Saftey and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) PATRICK M. IGNOFFO - ENGINEER - O.C. Jones & Sons

Signature Patrick M. Ignoffo

Date July 16, 1990

Signature of Site Owner or Operator

Name (please type) Michele Heffes, Port of Oakland

Signature Michele Heffes for Port of Oakland

Date 7/12/90

IT CORPORATION

STANDARD PROCEDURE

PROCEDURE NO. ITC PRO 9532.7A

DATE February 23, 1987

SUPERSEDES 9532.7 (02/17/83)

APPROVED David R. Smith

SUBJECT: UNDERGROUND STORAGE TANK REMOVAL AND CLOSURE

CONTENTS

place or removal). As of 1985, states have designated state or local agencies that are responsible for implementing and enforcing underground tank regulations, including closures.

Steps involved in tank removal and closure include agency notification, permitting, excavation, hazardous substance removal, tank cleaning, tank removal, groundwater and/or soil testing for chemical contamination, backfilling, and post-closure notification (tank de-listing).

The protection of IT employees, subcontractors, and the public is a major concern during tank closure project design and implementation. Several health and safety concerns require evaluation and include excavation/trenching hazards; confined space hazards; toxic, flammable and/or oxygen deficient atmospheres; hot work and cold cutting operations; tank removal; physical hazards; and others.

All underground storage tank closure projects shall be reviewed by the Regional Health and Safety Office in accordance with ITC PRO 9021.1A (Review of New Jobs, New Projects, New Construction and Proposals).

V. DEFINITIONS - FOR THE PURPOSE OF THIS DIRECTIVE

A. Cold Cutting

Methods of material cutting that utilize a nonelectric or nonflammable gas system, such as pneumatic chisels or drills, or a high pressure water device.

B. Confined Space

Normally considered to be enclosures having limited means for entry and exit, by reason of location, size, or number of openings; and unfavorable natural ventilation which could contain or produce dangerous air contaminants, flammable or explosive atmospheres, and/or oxygen deficiency. Confined spaces may include storage tanks, excavations, or trenches.

C. Competent Person - Excavation and Trenching

A person, such as a supervisor or engineer, who is capable of identifying existing and predictable hazards in the excavation/trenching work area and who has the authority to take prompt corrective measures to eliminate them.

D. Excavation

Any manmade cavity or depression in the earth's surface, including its sides, walls or faces, formed by earth removal and producing unsupported earth conditions by reasons of the excavation.

E. Hot Work

Any work involving burning, welding, riveting, or similar fire-producing operations, as well as work which produces a source of ignition, such as drilling, grinding, abrasive blasting, etc.

exposure to toxic substances, confined space entry procedures, and in the use of atmospheric testing instruments is required. These training requirements can be satisfied through the successful completion of IT's Excavation Safety and the Hazards and Protection/Confined Space training courses.

2. Qualified Person - Excavation and Trenching

A person, such as an engineer, who by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience has successfully demonstrated his/her ability to design shoring, sloping/benching, or alternate systems that meet accepted regulatory and engineering requirements.

M. Trench

An excavation made below the surface of the ground. In general, the depth is greater than the width at the bottom, but the width of a trench at the bottom is not greater than 15 feet.

N. Underground Storage Tank

By regulatory definition, a tank with ten percent or more of its volume below ground. Included in the volume is all piping attached to the tank (RCRA, Subtitle I, Section 9001(1)).

VI. MEDICAL EXAMINATION

A. All IT Corporation personnel on-site shall have successfully completed a preplacement or periodic/update physical examination in accordance with ITC PRO 9410.1.

B. All subcontractor personnel who, because of their job assignments, may incur exposures to the hazardous materials present at the jobsite, must have successfully completed a physical examination similar to the IT Corporation preplacement physical exam required by ITC PRO 2010.1 (Contractor/Subcontractor Relationships and Documentation) unless otherwise indicated by the Regional Health and Safety Office.

VII. EMPLOYEE TRAINING AND INDOCTRINATION

A. All IT personnel assigned to underground storage tank closure projects shall have completed, at a minimum, the appropriate formal training courses designated in ITC PRO 9030.1A (Employee and Contractor Training Requirements).

B. All subcontractor personnel shall have completed minimum training requirements as specified in ITC PRO 2010.1A (Contractor/ Subcontractor Relationships and Documentation).

c. Trees, boulders, poles and other surface encumbrances located at the work site shall be made safe or removed prior to initiation of the tank closure project.

d. Assure that construction equipment (not in transit) and personnel do not come closer than 15 feet to any energized overhead high voltage conductor such as electric utility lines.

B. Operating Requirements

1. Hazard Assessment

At the beginning of the project, each work shift, and as often as necessary to ensure safety, a competent person shall conduct an area survey to locate work place hazards and determine appropriate safety control measures.

2. Excavation Safety

a. All work involving excavation or trenching shall be subject to the requirements of ITC PRO 9532.9 (Excavation and Trenching).

b. Personnel entry into any excavation or trench that is more than five feet deep shall only be permitted if the excavation or trench is properly shored or sloped and safe for entry as determined by a qualified person.

c. Daily inspections of an excavation shall be made by a competent person. If there is evidence of possible cave-ins or slides, all work in the excavation shall cease until the necessary safeguards have been taken.

d. Trenches more than four feet deep shall have ladders or steps located so as to require no more than 25 feet of lateral travel between means of egress. Ladders shall be placed at an angle not more than 30 degrees from vertical and secured as necessary. Ladder side rails shall extend at least three feet above the original ground surface.

e. All spoil shall be located at least two feet from the edge of the excavation to prevent spoil from falling back into the excavation. No method that disturbs the soil in place (such as driving stakes) shall be used to contain spoil material.

4. Fire Safety

   a. Hot work shall not be conducted unless all requirements of ITC PRO 9571.1 (Welding, Cutting, and Other Hot Work in Hazardous Locations) have been met.

   b. Cold cutting of underground storage tanks to facilitate cleaning shall only be performed under direct supervision of a qualified person.

   c. Equipment on-site shall be bonded and grounded, spark-proof, and explosion resistent, as appropriate. Particular attention to bonding/grounding shall be made during transfer of flammable/combustible liquids into vacuum trucks and when ventilation equipment is utilized.

   d. A fire extinguisher with a minimum rating of 10B:C shall be strategically located in the area of active work.

   e. No smoking shall be allowed in the work area.

5. Underground Storage Tank Decontamination

   Underground storage tanks that have been removed, but not cleaned, are considered hazardous waste. These tanks must be transported in accordance with Department of Transportation hazardous material packaging and shipping requirements, including manifesting, and taken to a permitted hazardous waste disposal site.

   Minimum decontamination procedures that shall be performed to allow transportation of removed tanks under a bill of lading, disposal at a non-hazardous waste facility, or tank demolition for scrap include:

   a. Removal of all residual liquid material, followed by triple rinsing with an appropriate cleaning solution to remove remaining sludge and/or scale from the interior surfaces of the tank.

   b. Routine tank testing to determine the effectiveness of the cleansing, flushing and rinsing procedure. Residual liquid in tanks shall not be less than a pH of 3, nor greater than 11. Tanks that have contained flammable or combustible liquids shall be checked with a combustible gas indicator. Readings above 0% LEL shall require additional tank cleansing.

   c. A physical examination of the tank interior to confirm that the rinsing process has removed all residual material. When triple rinsing is not sufficient to remove all sludge or scale, tanks shall be entered (once the tank space has been evaluated by a qualified person - industrial confined space) through available manways or cold cut open so that personnel can

Regional Health and Safety Office. All tests shall be repeated as often as necessary to assure safety since changing conditions may result in varying atmospheric contaminant concentrations.

c. All work activity is prohibited in atmospheres where tests indicate that the concentration of flammable vapors is greater than 10% of the lower explosive limit (LEL), or the concentration of oxygen is less than 20% or greater than 25%. Positive steps, such as ventilation, shall be taken to establish acceptable atmosphere conditions prior to resumption of operations.

d. Tests indicating the presence of toxic contaminants in concentrations at or above the threshold limit value (TLV) mandate that work in such an atmosphere proceed only when personal protective equipment appropriate for the specific contaminants is provided to all affected employees, based on recommendations of the Regional Health and Safety Office.

e. Proper maintenance and operation of air monitoring equipment is an essential component of underground storage tank closure operations. Use of combustible gas/oxygen indicators is subject to the following precautions:

(1) Combustible gas indicators must be routinely and properly calibrated based on known mixtures of gas (i.e., pentane, methane) in air. Other combustible gases or vapors will read aproximately correctly in terms of explosivity, but for maximum accuracy, a calibration curve for the specific substance or mixture of concern should be consulted.

(2) The presence of certain materials in the sample atmosphere may seriously impair the meter response of a combustible gas indicator. These include tetraethyl lead (TEL), used in leaded gasoline, and silicon compounds, in the form of silanes, silicones and silicates, often found in hydraulic fluids. Certain manufacturers supply inhibitor filaments designed to nullify the effects of TEL on meter response.

(3) Ambient oxygen concentrations of less than 10% will cause an inaccurately low reading on the combustible gas meter scale.

d. Food articles or smoking materials will not be allowed in the work area.

e. All IT procedures applicable to each specific job are to be followed in addition to these noted underground storage tank closure work practices and conditions.

f. Adequate provisions shall be made for:

(1) Washing of hands and face prior to eating, drinking, or consuming tobacco products.

(2) Providing drinking water to site personnel. During the summer months particularly, electrolyte replacement fluids, such as Gatorade, should be made available.

9532-7/PLP

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

PRODUCER

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

CODE SUB-CODE

INSURED International Technology Corporation; IT Corporation; IT Transportation Corp.; McGill Environmental Systems, Inc.; IT Environmental Services, Inc.; PEI Assoc., Inc.; Underground Resources Management; IT Italia, Inc.; IT Engineering of New York, P.C.; IT McGill International, Ltd.; IT Espana; IT Deutschland, Inc.
23456 Hawthorne Blvd.,
Torrance, California 90505

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A — NATIONAL UNION FIRE INSURANCE COMPANY

COMPANY LETTER B — BIRMINGHAM FIRE

COMPANY LETTER C — LANDMARK

COMPANY LETTER D

COMPANY LETTER E

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE 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. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
	GENERAL LIABILITY					
A	X COMMERCIAL GENERAL LIABILITY				GENERAL AGGREGATE	$ 1,000,000
	X CLAIMS MADE OCCUR	RMGLA2498049	4/1/90	4/1/91	PRODUCTS-COMP/OPS AGGREGATE	$
	OWNER'S & CONTRACTOR'S PROT.				PERSONAL & ADVERTISING INJURY	$
					EACH OCCURRENCE	$ 1,000,000
					FIRE DAMAGE (Any one fire)	$
					MEDICAL EXPENSE (Any one person)	$
	AUTOMOBILE LIABILITY					
A	X ANY AUTO	RMBA5529114 (A/O)	4/1/90	4/1/91	COMBINED SINGLE LIMIT	$ 1,000,000
	ALL OWNED AUTOS	RMBATX562115 (Texas)			BODILY INJURY (Per person)	$
	SCHEDULED AUTOS				BODILY INJURY (Per accident)	$
	HIRED AUTOS				PROPERTY DAMAGE	$
	NON-OWNED AUTOS					
	GARAGE LIABILITY					
	EXCESS LIABILITY				EACH OCCURRENCE $	AGGREGATE $
	OTHER THAN UMBRELLA FORM					
A	WORKER'S COMPENSATION	RMWC112-7611 (CA)			STATUTORY	
A		RMWC112-8772 (A/O)				
B	AND	RMWC112-8773 (MD)	4/1/90	4/1/91	$ 1,000,000	(EACH ACCIDENT)
C	EMPLOYERS' LIABILITY	RMWC112-8774 (LA)			$ 1,000,000	(DISEASE—POLICY LIMIT)
	OTHER				$ 1,000,000	(DISEASE—EACH EMPLOYE

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

CITY OF OAKLAND
FIRE MARSHAL'S OFFICE
ROOM 201, CITY HALL
OAKLAND, CALIFORNIA 94612
273-3851

Permit No._____
Copies to_____
Date Issued_____

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS

IN THE CITY OF OAKLAND

Date 13 July 1990

Application is hereby made for permit to ~~remove~~ / ~~install~~ / ~~repair~~ gasoline / fuel oil tank and excavate, commencing four feet inside the curb line / inside the property line on the ____ side of American President Line Middle Harbor Rd. / St. / Ave. Terminal, 1579 Middle Harbor Road ____ feet ____ of ____ St. / Ave.

House No. and Street _____ Street / Avenue Present storage _____

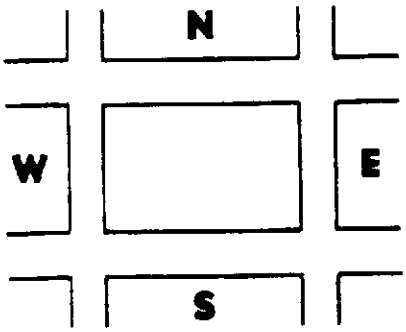
Owner Port of Oakland Address 530 Water Street Phone 272-1178

Applicant O. C. Jones and Sons Address 1520 Fourth Street Phone 526-3424

Remarks Tanks will be removed in phases

Sidewalk surface to be disturbed ____ X ____ Number of Tanks Four Capacity 2,000 / 10,000 / 550 Gallons each

Signature Patrick Jones



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

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

NOTIFICATION FORM

[X] Removal or Replacement of Tanks
[X] Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS American President Line (Eagle Marine Services), 1579 Middle Harbor Road
CITY, STATE, ZIP Oakland, CA 94607
OWNER NAME Port of Oakland
SPECIFIC LOCATION OF PROJECT Port Tank ID EF14 (10,000-gal. diesel) - Phase A

TANK REMOVAL

SCHEDULED STARTUP DATE August 9, 1990

VAPORS REMOVED BY:

[ ] WATER WASH
[X] VAPOR FREEING (CO^2)
[ ] VENTILATION

CONTAMINATED SOIL EXCAVATION

SCHEDULED STARTUP DATE August 9, 1990

STOCKPILES WILL BE COVERED? YES X NO ____

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):

____
(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME IT Corporation CONTACT Larry Hutson
ADDRESS 4575 Pacheco Boulevard PHONE (415) 372-9100
CITY, STATE, ZIP Martinez, CA

CONSULTANT INFORMATION
(IF APPLICABLE)

NAME Baseline Environmental Consulting CONTACT Yane Nordhav or Irene Kan
ADDRESS 5900 Hollis Street, Suite D PHONE (415) 420-8686
CITY, STATE, ZIP Emeryville, CA 94608

FOR OFFICE USE ONLY

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

/89

APPENDIX B

HAZARDOUS WASTE MANIFESTS AND CERTIFICATES OF DISPOSAL

California—Health and Welfare Agency
Approved OMB No. 2050—0039 (Expires 9-30-91) 142240
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000030011	Manifest Document No. 36288	2. Page 1 of 1

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

3. Generator's Name and Mailing Address: PORT OF OAKLAND, P.O. BOX 2064, OAKLAND, CA 94607
4. Generator's Phone ( ) 415 272-1589

A. State Manifest Document Number: 90262888
B. State Generator's ID: HNH0360125831

5. Transporter 1 Company Name: Refinery Services
6. US EPA ID Number: CAD081166728
C. State Transporter's ID: 102070
D. Transporter's Phone: 800-874-4444

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: Refinery Services, P.O. Box 1171, Patterson, CA 95363
10. US EPA ID Number: CAD081166728
G. State Facility's ID:
H. Facility's Phone: 800-874-4444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON RCRA HAZARDOUS WASTE LIQUID (#2 Diesel, oil, water)	001	TT	04250	G	State 221; EPA/Other NON RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above:
#2 Diesel 80%
Lube oil 5%
Water 15%

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

15. Special Handling Instructions and Additional Information: INCASE OF SPILL DIKE AND CONTAIN. Notify IT Emergency Response At 415-372-9100

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month Day Year
KELVIN Z DAVIS	Kelvin Z Davis	08 27 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
JEROME R. VOSS	Jerome R. Voss	08 27 90

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

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

90262888

DHS 8022 A (1/88)
EPA 8700—22

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91) 142240
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 272714

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000310113 — Manifest Document No.: 91689
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: PORT OF OAKLAND, P.O. BOX 2064, OAKLAND, CA 94607
4. Generator's Phone: (415) 272-1589

A. State Manifest Document Number: [illegible]
B. State Generator's ID: HYH0360ZS[illegible]

5. Transporter 1 Company Name: Erickson, Inc.
6. US EPA ID Number: CAD009466392

C. State Transporter's ID: [illegible]
D. Transporter's Phone: (415) 235-[illegible]

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

E. State Transporter's ID:
F. Transporter's Phone:

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

10. US EPA ID Number: CAD009466392

G. State Facility's ID: CAD009466392
H. Facility's Phone: (415) 235-1393

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste empty storage tank NON-RCRA hazardous waste solid.	001	TP	014000	P	State: [illegible] EPA/Other: None
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:

J. Additional Descriptions for Materials Listed Above:
EMPTY TANK LAST CONTAINED DIESEL
EMPTY TANK #4349 ICED WITH 150 LBS
DRY ICE.

K. Handling Codes for Wastes Listed Above: a. 01

15. Special Handling Instructions and Additional Information
Keep away form sources of ignition. Always wear hardhats when working around U.S.T.'s

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month Day Year
FRANCIS Y. MORIGUCHI	[signature]	10 30 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Rodney C. Prowett	[signature]	10 30 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

RECEIVED
RECEIVED NOV 06 1990
A/P-MTZ

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
DONALD H. ROSSON JR	[signature]	10 30 90

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

GENERATOR / TRANSPORTER / FACILITY

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

Do Not Write Below This Line

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

...n and Welfare Agency 142240
...o. 2050—0039 (Expires 9-30-91)
(Form designed for use on elite (12-pitch typewriter)

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000903011 | Manifest Document No.: 3 6 2 8 8 7
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: PORT OF OAKLAND, P.O. BOX 2064, OAKLAND, CA 94607
4. Generator's Phone ( )

A. State Manifest Document Number: 90262887
B. State Generator's ID: HYHQ3602 5823

5. Transporter 1 Company Name: LAIDLAW ENVIRONMENTAL
6. US EPA ID Number: CAD000008 1121

C. State Transporter's ID: 001100
D. Transporter's Phone: 415-372-4800

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: Refinery Services, P.O. BOX 1171, Patterson, CA 95363
10. US EPA ID Number: CAD083166728

G. State Facility's ID
H. Facility's Phone: 800-874-4444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON-RCRA HAZARDOUS WASTE LIQUID (Diesel AND WATER)	001	TT	05000	G	State 221; EPA/Other NON RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above:
Diesel 2%
WATER 98%

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

15. Special Handling Instructions and Additional Information:
IN CASE OF SPILL DIKE AND CONTAIN, Notify IT Emergency Response At 415-372-9100

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: KELVIN Z DAVIS | Signature: Kelvin Z Davis | Month Day Year: 08 30 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Walter L. Tucker | Signature: Walter L Tucker | Month Day Year: 08 30 90

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:

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

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

Form Approved OMB No. 2050—0039 (Expires 9-30-91) 142240 See Instructions on Back of Page 7 and Front of Page 7 92754 Department of Health Servic
Please print or type. (Form designed for use on elite (12-pitch typewriter). Toxic Substances Control Divis
Sacramento, Califor

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000300113 Manifest Document No. 89891864
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: PORT OF OAKLAND, P.O. Box 2064, OAKLAND, CA 94607
4. Generator's Phone ( ) 415 272 1472

A. State Manifest Document Number: 89891864
B. State Generator's ID: HW H 0 3 6 0 2 5 8 2 1 3
C. State Transporter's ID: 106250
D. Transporter's Phone: (415)235-1393
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID: CA D 0 0 9 4 6 6 3 9 2
H. Facility's Phone: (415)235-1393

5. Transporter 1 Company Name: Erickson, Inc.
6. US EPA ID Number: CAD009466392
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Erickson, Inc., 255 Parr Blvd., Richmond, Ca. 94801
10. US EPA ID Number: CAD009466392

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.	003	TP	12550	P	State EPA/Other 512 None
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
#4379 - Empty Tank Last Contained Diesel
4380 - Empty Tank Last Contained Gasoline
4381 - Empty Tank Last Contained Waste Oil

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

15. Special Handling Instructions and Additional Information
Keep away form sources of ignition. Always wear hardhats when working around U.S.T.'s

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
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: FRANCIS MORIGUCHI — Signature: [signature] — Month Day Year: 10 9 05 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY E. BROWN — Signature: [signature] — Month Day Year: 09 05 90

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: Donald H. Rosson Jr. — Signature: [signature] — Month Day Year: 10 9 05 90

Do Not Write Below This Line

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

89891864

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete. NSN 7540-00-180-8022 A (1/88)

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

№ 4349 - 12714

I.T. Corp

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

9-5 [redacted]

For: Erickson, Inc. Tank No.(s.) 4349 Location: Richmond Date: [redacted] Time: 2:00 p.m.

Test Method: ~~Visual Gastech/1314 SMPN~~ Last Product: Diesel

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

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

Remarks:

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

Standard Safety Designation:

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

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

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

K. Hughes
Representative

Title

Shannon Rogers
Inspector

CPS

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

INCORRECT BILL OF LADING. TANK DISPOSED OF AT BFI WASTE SYSTEM, LIVERMORE

Shipper's No.

CARRIER: Erickson, Trucking Inc.
SCAC
Carrier's No. / Date: 019

TO: Consignee Street Destination: LMC Corp. 600 S. 4th St. Richmond, Ca. 94805 Zip

FROM: Shipper Street Origin: Erickson, Inc. 255 Parr Blvd. Richmond, Ca. 94801 Zip

Route:
Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	ID Number	WEIGHT (Subject to correction)	RATE	CHARGES
		NON-D.O.T. REGULATED MATERIAL NON-HAZARDOUS, GAS FREE					
		UNDERGROUND STORAGE TANKS FOR SCRAP.					
		72714/4349	NONE	N/A	N/A	N/A	NONE
		72531/4062					
		72611/4345					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor

FREIGHT CHARGES ☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per [signature]

PLACARDS REQUIRED: NO

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER: Erickson, Inc.
PER: Shannan Lowry
DATE: 9-5-90

CARRIER:
PER:
DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: (415) 235-1393

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

B-BLS-A3 (Rev. 8/88)

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

WEIGHMASTER CERTIFICATE

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

LMC METALS
A DIVISION OF SIMSMETAL USA CORPORATION
600 SOUTH 4th STREET
RICHMOND, CALIFORNIA 94804
(415) 236-0808

TICKET# 19600

MATL. 10201-1 UNP
PRICE / TON:$ PAY WEIGHT: 5530
TOTAL PRICE:$
WEIGHT ADJUSTMENT: 0 PERCENT:*****%
INBOUND WEIGHT: 36080 Lbs.

ACCOUNT:22168801
ERICKSON INC.

CASH I.D.:

TRUCK NO. LICENSE NO.
DRIVER:AL /

36080 (M) Gross Weight Lbs.
30500 Tare Weight Lbs.
5580 Net.Weight Lbs.

FRT. CODE:1 COST:$ 0.00

SIGNATURE OF SELLER OR AGENT
LMC METALS WEIGHMASTER

2-40409

...RAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. _____

Carrier's No. _____ Date

CARRIER: Erickson Trucking, Inc. SCAC

TO: Consignee / Street / Destination: BFI Waste System, 4001 Vasco, Livermore, CA 94550 Zip

FROM: Shipper / Street / Origin: Erickson, Inc. 2[illegible] Blvd., Richmond, CA [illegible] Zip

Vehicle Number

Route:

HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (if applicable)
	Non-Dot regulated metrial gas free triple rinsed underground storage tank for scrap.					
		None	N/A	N/A	N/A	None

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

FREIGHT CHARGES ☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Erickson, Inc.

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: Shannan Lowry

PER:

DATE:

CARRIER:

PER:

DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge

9-BLS-A3
(Rev. 5/90)

№ 4379 - 12754
I.T. Corp.

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 4379 Location: Richmond Date: 9-7-90 Time: 11:00 a.m.

Test Method: ~~Visual Gastech/1314 SMPN~~ Last Product: Diesel

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

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

Remarks:

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

Standard Safety Designation:

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

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

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

K. Hughes
Representative

Title

S. Lopez
Inspector

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL LEAK FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No. _____

Carrier's No. 019

CARRIER: Erickson, Trucking Inc. SCAC Date

TO: Consignee LMC Corp.
Street 600 S. 4th St.
Destination Richmond, Ca. 94805 Zip

FROM: Erickson, Inc.
Shipper 255 Parr Blvd.
Street Richmond, Ca. 94801
Origin Zip

Route:

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exception)
		NON-D.O.T. REGULATED MATERIAL	NON-HAZARDOUS, GAS FREE				
		UNDERGROUND STORAGE TANKS FOR SCRAP.					
		72759/4376	NONE	N/A	N/A	N/A	NONE
		72754/4379 -					
		7274/4366 -					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

FREIGHT CHARGES
☐ PREPAID ☐ COLLE

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS REQUIRED NO PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: Erickson, Inc.
PER: Shannon Lowry
DATE: 9-7-90

CARRIER:
PER:
DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Manned 24 hours/day by a person with knowledge of the hazards of the material a emergency response information or who has access to a person with that knowledge

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lac

9-BLS. (Rev. 9/

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

WEIGHMASTER CERTIFICATE

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 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

LMC METALS
A DIVISION OF SIMSMETAL USA CORPORATION
600 SOUTH 4th STREET
RICHMOND, CALIFORNIA 94804
(415) 236-0605

TICKET# 17363

MATL. 10201-1 UNP
PRICE / TON: $
TOTAL PRICE: $
WEIGHT ADJUSTMENT: 0
INBOUND WEIGHT: 40960 Lbs.

PAY WEIGHT: 11520
PERCENT: *****%

ACCOUNT: 22168801
ERICKSON INC.

CASH I.D.:

TRUCK NO. LICENSE NO.

DRIVER:

40960	(M)	Gross Weight Lbs.	9/07/90- 12:41	FRT. CODE: 1 COST: $ 0.00
29440		Tare Weight Lbs.	9/07/90- 13:38	
11520		Net Weight Lbs.		

SIGNATURE OF SELLER OR AGENT

LMC METALS WEIGHMASTER

2-38681

FOR SALVAGE VEHICLE SALES I hereby certify, under penalty of perjury, that any vehicles sold have been cleared for dismantling with the Department of Motor Vehicles.

HOLD HARMLESS AGREEMENT: Seller will indemnify and hold buyer harmless from damages, demands and liabilities, including reasonable attorney's fees, resulting from the breach of any warranty hereunder and shall agree to be responsible for damage to vehicle during unloading

BILL OF SALE: I represent that I am the owner (or owner's representative) of the material described hereon and have the right to sell same, that it contains no hazardous material as defined by Federal or State law and that for payment hereby received, I sell and convey title to LMC METALS

No. 4380 - 12754
I.T. CORP

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 4380 Location: Richmond Date: 9-7-90 Time: 2:00 p.m.

Test Method: ~~Visual Gastech/1314 SMPN~~ Last Product: Gasoline

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

Tank(s)	Condition
1- 21000 Gal. Tank	Safe for Fire Oxy 20.9% ~~LEL- less than 0.1%~~

Remarks:

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

Standard Safety Designation:

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

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

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

K. Hughes
Representative

Title

Inspector

CP5815

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. _____

CARRIER: Erickson, Trucking Inc. SCAC Carrier's No. 019 Date

TO: Consignee / Street / Destination: LMC Corp. 600 S. 4th St. Richmond, Ca. 94805 Zip

FROM: Shipper / Street / Origin: Erickson, Inc. 255 Parr Blvd. Richmond, Ca. 94801 Zip

Route:

Vehicle Number 3E7652)

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
		NON-D.O.T. REGULATED MATERIAL	NON-HAZARDOUS, GAS FREE				
		UNDERGROUND STORAGE TANKS FOR SCRAP.					
		72715/4340	NONE	N/A	N/A	N/A	NONE
		72759/4375-					
		72[illegible]/4380-					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES ☐ PREPAID ☐ COLLECT

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per S. Lowry

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: Erickson, Inc.
PER: Shannan Lowry
DATE: 9/7/90

CARRIER: Jack Parker Trucking Co
PER: [signature]
DATE: 9-7-90

EMERGENCY RESPONSE TELEPHONE NUMBER: 415 235-1393

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

9-81S-A3 (Rev. 9/88)

WEIGHMASTER CERTIFICATE

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.

LMC METALS
A DIVISION OF SIMSMETAL USA CORPORATION
600 SOUTH 4th STREET
RICHMOND, CALIFORNIA 94804
(415) 236-0800

TICKET# 17408

ACCOUNT:22168801
ERICKSON INC.

MATL. 10201-1 UNP
PRICE / TON:$
TOTAL PRICE:$
PAY WEIGHT: 5360
WEIGHT ADJUSTMENT: 0 PERCENT:*****%
INBOUND WEIGHT: 32400 Lbs.

OSH I.D.:

TRUCK NO. LICENSE NO.
DRIVER:

32400 (M) Gross Weight Lbs. 9/07/90- 14:52 FRT. CODE:1 COST:$ 0.00
27040 Tare Weight Lbs. 9/07/90- 15:15
5360 Net Weight Lbs.

SALVAGE VEHICLE SALES: I hereby, under penalty of perjury, warrant that any vehicles sold have been registered for dismantling with the Department of Motor Vehicles.

HOLD HARMLESS AGREEMENT: Seller will indemnify and hold buyer harmless from damages and liabilities, including reasonable attorney's fees, resulting from the breach of any warranty hereunder and further agrees to be responsible for damage to vehicle during unloading.

BILL OF SALE: I warrant that I am the owner (or owner's representative) of the material described hereon and have the right to sell same. That it contains no hazardous material as defined by Federal or State law and that for payment hereby received, I sell and convey title to LMC METALS.

SIGNATURE OF SELLER OR AGENT

LMC METALS WEIGHMASTER 2-38707

No. 4381 - 12159
I.T. CORP

CERTIFICATE

Certified Services Company
255 Parr Boulevard
Richmond, California 94801

Day or Night
Telephone
(415) 235-1393

For: Erickson, Inc. Tank No.(s.) 4381 Location: Richmond Date: 9-7-90 Time: 11:00 a.m.

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

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

Tank(s)	Condition
1- 550 Gal. Tank	Safe for Fire Oxy 20.9% LEL- Less than 0.1%

Remarks:

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

Standard Safety Designation:

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

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

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

K. Hughes
Representative

Title

S. Lowrey
Inspector

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No. _____

CARRIER: Erickson, Trucking Inc. SCAC Carrier's No. 019 Date

TO: Consignee / Street / Destination: LMC Corp. 600 S. 4th St. Richmond, Ca. 94805 Zip

FROM: Shipper / Street / Origin: Erickson, Inc. 255 Parr Blvd. Richmond, Ca. 94801 Zip

Route: Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
		NON-D.O.T. REGULATED MATERIAL NON-HAZARDOUS, GAS FREE					
		UNDERGROUND STORAGE TANKS FOR SCRAP.					
		72754/4381-	NONE	N/A	N/A	N/A	NONE
		72752/4372-4373-					
		72753/4374-					

Remit C.O.D. to: Address: City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

FREIGHT CHARGES ☐ PREPAID ☐ COLLE

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per S. Lowry

PLACARDS REQUIRED NO PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: Erickson, Inc.
PER: Shannan Lowry
DATE: 9-7-90

CARRIER: JACK PARKER TRUCKING
PER:
DATE: 9-7-90

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Manned 24 hours/day by a person with knowledge of the hazards of the material an emergency response information or who has access to a person with that knowledge

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lad

9-BLS-A (Rev. 9/8

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

WEIGHMASTER CERTIFICATE

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 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 Agricult

LMC METALS
A DIVISION OF SIMSMETAL USA CORPORATION
600 SOUTH 4th STREET
RICHMOND CALIFORNIA 94804
(415) 236-0606

TICKET# 17349

ACCOUNT:2216-8801
ERICKSON INC.

MATL. 10201-1 UNP
PRICE / TON:
TOTAL PRICE:
PAY WEIGHT: 13680
WEIGHT ADJUSTMENT: 0 PERCENT:*****%
INBOUND WEIGHT: 40700 Lbs.

CASH I.D.:

TRUCK NO.
LICENSE NO. 3E96521
DRIVER:

40700 (M) Gross Weight Lbs. 9/07/90- 11:58 FRT. CODE:1 COST:$ 0.00
27020 Tare Weight Lbs. 9/07/90- 12:43
13680 Net Weight Lbs.

IF SALVAGE VEHICLE SALES: I hereby certify under penalty of perjury, that any vehicles sold have been cleared for dismantling with the Department of Motor Vehicles.

HOLD HARMLESS AGREEMENT: Seller will indemnify and hold buyer harmless from damages, demands and liabilities, including reasonable attorney's fees, resulting from the breach of any warranty hereunder and other agrees to be responsible for damage to vehicle during unloading.

BILL OF SALE: I warrant that I am the owner (or owner's representative) of the material described hereon and have the right to sell same, that it contains no hazardous material as defined by Federal or State law and that for payment hereby received, I sell and convey title to LMC METALS.

SIGNATURE OF SELLER OR AGENT

LMC METALS WEIGHMASTER 2-38666

APPENDIX C

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: 08/30/90
DATE REPORTED: 08/31/90

LAB NUMBER: 101527

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 5 SOIL SAMPLES
1 WATER SAMPLE
4 SOIL COMPOSITES:

for Ant EF14

COMPOSITE 1 = SC-1/SC-2
COMPOSITE 2 = SD-1/SD-2
COMPOSITE 3 = SA-1/SA-2/SA-3/SA-4
COMPOSITE 4 = SB-1/SB-2

PROJECT #: S9-134.40
LOCATION: [redacted]

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101527
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL-UST EF 14

DATE RECEIVED: 08/30/90
DATE EXTRACTED: 08/30/90
DATE ANALYZED: 08/31/90
DATE REPORTED: 08/31/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101527-5	EEC-10	ND	ND	10
101527-6	ENE-10	ND	ND	10
101527-7	ENW-10	ND	ND	10
101527-8	ESW-10	ND	ND	10
101527-9	P-1-4	ND	14,000	100
101527-17	COMPOSITE 1	ND	120	10
101527-18	COMPOSITE 2	ND	ND	10
101527-19	COMPOSITE 3	ND	150	10
101527-20	COMPOSITE 4	ND	390	10

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101527
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL-UST EF 14

DATE RECEIVED: 08/30/90
DATE ANALYZED: 08/30/90
DATE REPORTED: 08/31/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101527-5	EEC-10	ND	ND	ND	ND	5.0
101527-6	ENE-10	ND	ND	ND	ND	5.0
101527-7	ENW-10	ND	ND	ND	ND	5.0
101527-8	ESW-10	ND	ND	ND	ND	5.0
101527-9	P-1-4	ND	ND	320	38	25
101527-17	COMPOSITE 1 SC-1,2	ND	ND	ND	ND	5.0
101527-18	COMPOSITE 2 SD-1,2	ND	ND	ND	ND	5.0
101527-19	COMPOSITE 3 SA-1,3	ND	ND	ND	ND	5.0
101527-20	COMPOSITE 4 SB-1,2	ND	ND	ND	ND	5.0

* Reporting limit applies to all analytes.

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	99

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101527
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL-UST EF 14

DATE RECEIVED: 08/30/90
DATE ANALYZED: 08/31/90
DATE REPORTED: 08/31/90

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

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)	REPORTING LIMIT * (ug/L)
101527-10	GW-1-10	ND	ND	ND	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	99

BASE

101 II Street, Suite L
Petaluma, CA 94952
(707) 762-5233

101527

CHAIN OF CUSTODY RECORD

Turn-Around Time 24 HRS
Lab Curtis - Tompkins
Contact Person JACK LEE

Project No.	Project Name and Location
99-134.40	APL - UST EF 14

Samplers: (Signature) Jack Lee

No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	Analysis: TPH (D)	Analysis: BTEX	Remarks	Detection Limits
SC-1	30 Aug 1990		soil	—	X	1	Stock pile "C"	X	X	Composite in lab SC-1 and SC-2	
SC-2			Soil	—		1					
SD-1			Soil	—	X	1	Stock pile "D"	X	X	Composite in lab SD1 and SD2	
SD-2			Soil	—		1					
EEC-10'		1500	soil	10		1		X	X		
ENE-10		1510	Soil	10		1		X	X		
ENW-10		1515	Soil	10		1		X	X		
ESW-10		1520	Soil	10		1		X	X		
P-1-4	30 Aug 90		soil	4'		1	Pump	X	X		

COMP 1
COMP 2

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack M Lee	8/30/90 1630	Norma J. Wik			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: BILL TO PORT OF OAKLAND P.O. # 52840	

BASELINE

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

101527

CHAIN OF CUSTODY RECORD

Turn-Around Time 24 HRS
Lab Curtis - Tompkins
Contact Person JACK LEE

Project No.	Project Name and Location
59-134.40	APL - UST EF14

Samplers: (Signature) Jack Lee

	No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	TPH-Diesel	BTEX							Remarks	Detection Limits
✓	~~EW-1-8~~	30 Aug 90	~~12~~ 35	Soil	8ft.		1	~~East~~ End	X	X								
✓	~~EE-2-8~~ 8B		~~12~~ 45	Soil	8ft		1	~~East~~ End	X	X								
10	GW-1-10			H_2O	10ft.		2	West end Groundwater	X	X							Normal Turn-around	
11 ✓	SA-1			Soil	—		1	Stockpile A	•								Composite in lab SA1, SA2 SA3, & SA4	
12	SA-2			Soil	—		1		X	X		COMP 3						
13	SA-3			Soil	—		1											
14 ✓	SA-4			Soil	—		1											
15 ✓	SB-1			Soil	—		1	Stockpile B	X	X							Composite in lab SB1 & SB2	
16	SB-2			Soil	—		1					COMP 4						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack Mabee	8/30/90 1630	Norman Wilson			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: BILL TO PORT OF OAKLAND P.O. # 52840	

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

DATE RECEIVED: 08/30/90
DATE REPORTED: 09/13/90

LAB NUMBER: 101534

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 2 SOIL SAMPLES

PROJECT #: S9-134.40
LOCATION: APL-UST EF14

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101534-1
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
SAMPLE ID: SA-5

DATE RECEIVED: 08/30/90
DATE ANALYZED: 09/04/90
DATE REPORTED: 09/06/90

Title 26 Metals in Soils & Wastes
Digestion Method: EPA 3050

METAL	RESULT mg/Kg	REPORTING LIMIT mg/Kg	METHOD
Antimony	ND	5	EPA 6010
Arsenic	ND	2.5	EPA 7060
Barium	16	0.5	EPA 6010
Beryllium	ND	0.5	EPA 6010
Cadmium	0.7	0.5	EPA 6010
Chromium (total)	18	0.5	EPA 6010
Cobalt	5.0	0.5	EPA 6010
Copper	8	1	EPA 6010
Lead	2.5	2.5	EPA 7420
Mercury	ND	0.1	EPA 7471
Molybdenum	ND	0.5	EPA 6010
Nickel	21	0.5	EPA 6010
Selenium	3.3	2.5	EPA 7740
Silver	ND	1	EPA 6010
Thallium	ND	5	EPA 7841
Vanadium	9	1	EPA 6010
Zinc	20	0.5	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD,%	RECOVERY,%		RPD,%	RECOVERY,%
Antimony	<1	97	Mercury	<1	
Arsenic	<1	99	Molybdenum	<1	
Barium	2	97	Nickel	<1	
Beryllium	1	95	Selenium	<1	
Cadmium	3	94	Silver	<1	
Chromium	<1	97	Thallium	<1	
Cobalt	1	97	Vanadium	<1	
Copper	2	96	Zinc	<1	
Lead	4	90			

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101534
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
LOACTION: APL-UST EF14

DATE RECEIVED: 08/30/90
DATE REPORTED: 09/13/90

==========

ANALYSIS: BIOASSAY
ANALYSIS REFERENCE: "GUIDELINES FOR PERFORMING STATIC ACUTE BIOASSAYS IN MUNICIPAL AND INDUSTRIAL WASTEWATERS", JULY 1979 AND CAC TITLE 22, DIV. 4, CHAPTER 30.

==========

LAB ID	SAMPLE ID	RESULT	UNITS
101534-2	SA-6	>750	mg/L

STATIC ACUTE BIOASSAY

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

Received	08/31/90
Reported	09/12/90

For: Curtis & Tomkins
Attention: Nancy Patten
Address: 2323 Fifth Street
Berkekey, CA 94710

Lab.SampleNo.: 905669 Sample Description: Soil- #101534-2 Sampling Procedure: --
Date Sampled: 08/30/90 Time Sampled: -- Sampled by: Curtis & Tompkins Test Begun: 09/04/90 End: 09/8/90

TIME	INITIAL					24 HOURS				48 HOURS				72 HOURS				96 HOURS			
Test	pH	D.O.	Temp	T.Alk.	T.Hard.	No.	pH	D.O.	Temp	No.	pH	D.O.	Temp	No.	pH	D.O.	Temp	No.	pH	D.O.	Temp
Conc.	Unit	mg/L	° C	mg/L	mg/L	Dead	Unit	mg/L	° C	Dead	Unit	mg/L	° C	Dead	Unit	mg/L	° C	Dead	Unit	mg/L	° C
Control	7.7	8.8	20	31	41	0	7.2	8.0	20	0	7.4	8.1	20	0	7.3	8.3	20	0	7.5	8.5	20
750 mg/L	7.8	9.0	20	30	42	0	7.5	8.6	20	0	7.6	8.6	20	0	7.5	8.5	20	0	7.6	8.3	20
500 mg/L	7.5	9.0	20	30	41	0	7.4	8.5	20	0	7.6	8.3	20	0	7.4	8.5	20	0	7.5	8.1	20
250 mg/L	7.6	8.9	20	30	41	0	7.4	8.4	20	0	7.5	8.3	20	0	7.4	8.4	20	0	7.4	8.5	20

Test Species: Fathead Minnow, Pimephales promelas Avg. Length: 2.9 cm Max. Length 3.2 cm Min. Length: 3.2 cm
Source of test species: Thomas Fish Co., Anderson, CA Avg. Wt.: 0.24 gm Max. Wt.: 0.38 gm Min. Wt.: 0.13 gm
Organisms/Conc.: 10 Dilution Water: Reconstituted Freshwater (Very Hard)
Test Solution Volume: 10 Liters Depth: 12.6 cm Aeration: Compressed Air Dead in Acclimation Tank: 0 %
Accl. Tank Water: Dechlorinated tap water Acclimation Period: 7 days Acclimation Temp.: 17 ° C

96 hour LC50	>750	mg/L
95 % Confidence Limits for LC50	--	

Comments:

Analyst Polly Cheung Manager Leverett Smith

Reference: "Guidlines for Performing Static Acute Bioassays in Municipal and Industrial Wastewaters", July 1979, SWRCB and DFG,: and " California Administrative Code Title 22, Div. 4, Chapter 30, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes. Paragraph 66696", 1985.

Chain of Custody Form

Curtis & Tompkins, Ltd
2323 Fifth Street
Berkeley, California 94107
(415) 486-0900

Job Description ____________________

Job Number: 101534

Client Contact: Nancy Pattern

Samplers ____________________

Recorder ____________________

Matrix				#Containers	Method Preserved					Sample Number	Sampling Date				SAMPLE NOTES
Water	Soil	Waste	Oil		H_2SO_4	HNO_3	Ice	None	Other		Yr	Mo	Dy	Time	KJ/C #
	X							X		101534-2	90	08	30		905669

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Title 22 Metals	EPA PP Metals (#)	TPH Method-	Benzene-Toluene-Xylene(s)	Oil and Grease	EPA 608/8080 Pesticides & PCB's	TVH-EPA 8015	TEH-EPA 8015	Total Lead	Organic Lead	Bioassay ** w/ Fathead Minnows
														X

Laboratory Notes :

[redacted] to [redacted]

FAX when ready → 486-0532

RJ

Chain of Custody Record

Relinquished by: (signature) Date/Hr	Received by: (signature)
Nancy Pattern 8/31/90 3:00	Karen Pettit 8/31/90 4:00pm
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)

BASELINE
101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

101534

CHAIN OF CUSTODY RECORD

Turn-Around Time NORMAL
Lab CURTIS - TOMPKINS
Contact Person JACK LEE

Project No.	Project Name and Location
39-134.40	APL - UST EF 14

Samplers: (Signature) JACK LEE

No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	Analysis: Biassay	Analysis: Title 22 - metals	Remarks	Detection Limits
SA-5	30 Aug 90	1535	SOIL			1	STOCKPILE A		X		
SA-6	30 AUG. 90	1540	SOIL			1	"	X			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack M Lee	8/30/90 1630	Norman J. Wm			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: BILL TO PORT OF OAKLAND P.O. # 52840	

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

DATE RECEIVED: 08/30/90
DATE REPORTED: 09/05/90

LAB NUMBER: 101544

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 2 SOIL SAMPLES

PROJECT #: S9-134.40
LOCATION: APL-UST EF 14

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101544
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL-UST EF14

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/04/90
DATE EXTRACTED: 09/04/90
DATE ANALYZED: 09/05/90
DATE REPORTED: 09/05/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101544-1	SD-1	ND	ND	10
101544-2	SD-2	ND	ND	10

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101544
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL-UST EF14

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/04/90
DATE ANALYZED: 09/04/90
DATE REPORTED: 09/05/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101544-1	SD-1	ND	ND	ND	ND	5.0
101544-2	SD-2	ND	ND	ND	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	78

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

101527 rewrd 101514

CHAIN OF CUSTODY RECORD

Turn-Around Time 24 HRS

Lab Curtis - Tompkins

Contact Person JACK LEE

Project No.	Project Name and Location
99-134.40	APL - UST EF 14

Samplers: (Signature) Jack Lee

	No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	TPH (D)	BTEX	Remarks	Detection Limits
1 ✓	SC-1	30 Aug 1990		soil	—	X	1	Stockpile "C"	X	X	Composite in lab SC-1 and SC-2	
2 ✓	SC-2			Soil	—		1				(comp 1	
3 ✓	SD-1	*		Soil	—	X	1	Stockpile "D"	X	X	Composite in lab SD1 and SD2	
4 ✓	SD-2	*		Soil	—		1				(comp 2	
5 ✓	EEC-10'		1500	soil	10		1		X	X		
6 ✓	ENE-10		1510	Soil	10		1		X	X		
7 ✓	ENW-10		1515	Soil	10		1		X	X	* run samples SD-1 + SD-2 discretely for TEH + BTXE as per Jack Lee 9/4/90	
8 ✓	ESW-10		1520	Soil	10		1		X	X		
9 ✓	P-1-4	30 Aug 1990		soil	4'		1	Pump	X	X		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack Lee	8/30/90 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: BILL TO PORT OF OAKLAND P.O. # 52840	

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

DATE RECEIVED: 08/30/90
DATE REPORTED: 09/05/90

LAB NUMBER: 101556

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 1 SOIL SAMPLE

PROJECT #: S9-134.40
LOCATION: APL-UST EF14

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101556
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
LOCATION: APL-UST EF14

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/06/90
DATE REPORTED: 09/12/90

==========

ANALYSIS: BIOASSAY
ANALYSIS REFERENCE: "GUIDELINES FOR PERFORMING STATIC ACUTE BIOASSAYS IN MUNICIPAL AND INDUSTRIAL WASTEWATERS", JULY 1979 AND CAC TITLE 22, DIV. 4, CHAPTER 30.

==========

LAB ID	SAMPLE ID	RESULT	UNITS
101556-1	P-1-4	>750	mg/L

STATIC ACUTE BIOASSAY

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

Received	09/07/90
Reported	09/12/90

For: Curtis & Tompkins, Ltd
Attention: Nancy Patten
Address: 2323 Fifth Street
Berkeley, CA 94710

Lab.SampleNo.: 908829 Sample Description: Soil - #101527-9 Sampling Procedure: --
Date Sampled: -- Time Sampled: -- Sampled by: Curtis & Tompkins Test Begun: 09/07/90 End: 09/11/90

TIME	INITIAL					24 HOURS				48 HOURS				72 HOURS				96 HOURS			
Test	pH	D.O.	Temp	T.Alk.	T.Hard.	No.	pH	D.O.	Temp	No.	pH	D.O.	Temp	No.	pH	D.O.	Temp	No.	pH	D.O.	Temp
Conc.	Unit	mg/L	° C	mg/L	mg/L	Dead	Unit	mg/L	° C	Dead	Unit	mg/L	° C	Dead	Unit	mg/L	° C	Dead	Unit	mg/L	° C
Control	7.2	8.7	20	31	44	0	7.2	8.6	20	0	--	--	--	0	7.2	8.0	20	0	7.1	8.0	20
750 mg/L	7.2	8.7	20	26	79	0	8.4	8.4	20	0	--	--	--	0	7.8	8.4	20	1	7.2	7.6	20
500 mg/L	7.4	8.7	20	30	67	0	8.0	8.4	20	0	--	--	--	0	7.7	8.2	20	0	7.3	7.8	20
250 mg/L	7.1	8.7	20	25	60	0	7.6	8.7	20	0	--	--	--	0	7.5	8.1	20	0	7.3	8.1	20
pH adj. Control	7.3	8.7	20	32	50	0	7.3	8.6	20	0	--	--	--	0	7.4	8.2	20	0	7.1	8.0	20

Test Species: Fathead Minnow, Pimephales promelas Avg. Length: 2.9 cm Max. Length 3.2 cm Min. Length: 2.6 cm
Source of test species: Thomas Fish Co., Anderson, CA Avg. Wt.: 0.27 gm Max. Wt.: 0.33 gm Min. Wt.: 0.21 gm
Organisms/Conc.: 10 Dilution Water: Reconstituted Freshwater (Very Hard)
Test Solution Volume: 10 Liters Depth: 12.6 cm Aeration: Compressed Air Dead in Acclimation Tank: 0 %
Accl. Tank Water: Dechlorinated tap water Acclimation Period: 7 days Acclimation Temp.: 17 ° C

96 hour LC50	>750	mg/L
95 % Confidence Limits for LC50	--	

Comments:

Analyst Polly Cheung Manager Leverett Smith

Reference: "Guidlines for Performing Static Acute Bioassays in Municipal and Industrial Wastewaters", July 1979, SWRCB and DFG,: and " California Administrative Code Title 22, Div. 4, Chapter 30. Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes. Paragraph 66696", 1985.

Curtis & Tompkins, Ltd
2323 Fifth Street
Berkeley, California 94107
(415) 486-0900

Chain of Custody Form

Job Description ______
Job Number 01556
Client Contact ______

Samplers ______
______
Recorder ______

Matrix: Water	Matrix: Soil	Matrix: Waste	Matrix: Oil	#Containers	Method Preserved: H_2SO_4	Method Preserved: HNO_3	Method Preserved: Ice	Method Preserved: None	Method Preserved: Other	Sample Number	Sampling Date: Yr	Mo	Dy	Time	SAMPLE NOTES
	X							X		101527-9					

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Title 22 Metals	EPA PP Metals (#)	TPH Method-	Benzene-Toluene-Xylene(s)	Oil and Grease	EPA 608/8080 Pesticides & PCB's	TVH-EPA 8105	TEH-EPA 8105	Total Lead	Organic Lead	Fish Bioassay w/ Fathead Minnows
														X

Laboratory Notes :

please call / fax ASAP results to above address

Fax: 4860532
phone: 4860900

Attn: Nancy Patten

RUSH

RUSH

Chain of Custody Record

Relinquished by: (signature) Date/Hr	Received by (signature)
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

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101556
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
LOCATION: APL-UST EF14

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/06/90
DATE ANALYZED: 09/10/90
DATE REPORTED: 09/10/90

ANALYSIS: pH
ANALYSIS METHOD: EPA 9045

LAB ID	SAMPLE ID	RESULT	UNITS
101556-1	P-1-4	11.8	S.U.

QA/QC SUMMARY

RPD, %	<1

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101556
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
LOCATION: APL-UST EF 14

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/04/90
DATE ANALYZED: 09/05/90
DATE REPORTED: 09/05/90

ANALYSIS: FLASH POINT
ANALYSIS METHOD: ASTM D93

LAB ID	SAMPLE ID	RESULT	UNITS
101556-1	P-1-4	177	DEGREES C

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101556-1
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
SAMPLE ID: P-1-4

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/04/90
DATE ANALYZED: 09/05/90
DATE REPORTED: 09/05/90

Title 26 Metals in Soils & Wastes
Digestion Method: EPA 3050

METAL	RESULT mg/Kg	REPORTING LIMIT mg/Kg	METHOD
Antimony	ND	5	EPA 6010
Arsenic	ND	2.5	EPA 6010
Barium	73	0.5	EPA 6010
Beryllium	ND	0.5	EPA 6010
Cadmium	2.6	0.5	EPA 6010
Chromium (total)	31	0.5	EPA 6010
Cobalt	5.8	0.5	EPA 6010
Copper	49	1	EPA 6010
Lead	33	2.5	EPA 7420
Mercury	ND	0.1	EPA 7471
Molybdenum	ND	0.5	EPA 6010
Nickel	27	0.5	EPA 6010
Selenium	ND	2.5	EPA 7740
Silver	ND	1	EPA 6010
Thallium	ND	5	EPA 6010
Vanadium	14	1	EPA 6010
Zinc	610	0.5	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD,%	RECOVERY,%		RPD,%	RECOVERY,%
Antimony	2	103	Mercury	<1	96
Arsenic	3	102	Molybdenum	<1	112
Barium	1	97	Nickel	4	100
Beryllium	1	98	Selenium	1	104
Cadmium	1	94	Silver	2	88
Chromium	1	101	Thallium	4	98
Cobalt	<1	99	Vanadium	1	97
Copper	<1	96	Zinc	1	102
Lead	4	112			

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101556-1
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: P-1-4

DATE RECEIVED: 08/30/90
DATE REQUESTED: 09/04/90
DATE ANALYZED: 09/04/90
DATE REPORTED: 09/05/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES
Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
chloromethane	ND	100
bromomethane	ND	100
vinyl chloride	ND	100
chloroethane	ND	100
methylene chloride	ND	50
acetone	130	100
carbon disulfide	ND	50
trichlorofluoromethane	ND	50
1,1-dichloroethene	ND	50
1,1-dichloroethane	ND	50
1,2-dichloroethene (total)	ND	50
chloroform	ND	50
freon 113	ND	50
1,2-dichloroethane	ND	50
2-butanone	DETECTED(65)	100
1,1,1-trichloroethane	ND	50
carbon tetrachloride	ND	50
vinyl acetate	ND	100
bromodichloromethane	ND	50
1,2-dichloropropane	ND	50
cis-1,3-dichloropropene	ND	50
trichloroethylene	ND	50
dibromochloromethane	ND	50
1,1,2-trichloroethane	ND	50
benzene	ND	50
trans-1,3-dichloropropene	ND	50
2-chloroethylvinyl ether	ND	100
bromoform	ND	50
2-hexanone	ND	100
4-methyl-2-pentanone	ND	100
1,1,2,2-tetrachloroethane	ND	50
tetrachloroethylene	ND	50
toluene	ND	50
chlorobenzene	ND	50
ethyl benzene	DETECTED(35)	50
styrene	ND	50
total xylenes	310	50

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103%
Toluene-d8	107%
Bromofluorobenzene	95%

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

DATE RECEIVED: 09/04/90
DATE REPORTED: 09/05/90

LAB NUMBER: 101554

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 5 SOIL SAMPLES

PROJECT #: S9-134.40
LOCATION: APL

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101554
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL

DATE RECEIVED: 09/04/90
DATE EXTRACTED: 09/04/90
DATE ANALYZED: 09/05/90
DATE REPORTED: 09/05/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101554-1	SD-3	ND	ND	10
101554-2	SD-4	ND	ND	10
101554-3	SD-5	ND	ND	10
101554-4	SD-6	ND	420	10
101554-5	SD-7	ND	ND	10

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101554
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL

DATE RECEIVED: 09/04/90
DATE ANALYZED: 09/04/90
DATE REPORTED: 09/05/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101554-1	SD-3	ND	ND	ND	ND	5.0
101554-2	SD-4	ND	ND	ND	ND	5.0
101554-3	SD-5	ND	ND	ND	ND	5.0
101554-4	SD-6	ND	ND	ND	ND	5.0
101554-5	SD-7	ND	ND	ND	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	97

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

CHAIN OF CUSTODY RECORD

101554

Turn-Around Time 24 hrs.

Lab Curtis . Tompkins

Contact Person

Project No.	Project Name and Location
89-134.40	APL :

Samplers: (Signature) Jack Lee

No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	Analysis: TPH (G)	Analysis: BTXE	Remarks	Detection Limits
SD-3	5 Sept 1990	1245	Soil	—	—	1	Stockpile D	✓	✓		
SD-4	5 Sept 1990	1245	✓	—	—	1	✓	✓	✓		
SD-5	5 Sept 90	1245	✓	—	—	1	✓	✓	✓		
SD-6	5 Sept 90	1250	✓	—	—	1	✓	✓	J		
SD-7	5 Sept 90	1250	✓	—	—	1	✓	✓	✓		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J Mc Lee	5 Sept 90				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks:	
		Nancy Patten	9/4/90 1400	Bill to Port of Oakland P.O. # 52840	

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

DATE RECEIVED: 09/05/90
DATE REPORTED: 09/07/90

LAB NUMBER: 101572

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 5 SOIL SAMPLES

PROJECT #: S9-134.40
LOCATION: APL:UST EF-11,EF-12,EF-13

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101572
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL:UST EF-11,12,13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/06/90
DATE REPORTED: 09/06/90

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

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
101572-1	EF11-1	8.3	24	ND(10)	96	130
101572-2	EF11-2	1.7	36	ND(5.0)	70	10

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

QA/QC SUMMARY

RPD, %	7
RECOVERY, %	91

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101572
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
LOCATION: APL:UST EF-11,EF-12,EF-13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

ANALYSIS: ORGANIC LEAD
ANALYSIS METHOD: EPA 7420
METHOD: CA DHS METHOD, LUFT MANUAL OCT 1989

LAB ID	CLIENT ID	RESULT	UNITS	REPORTING LIMIT
101572-1	EF11-1	ND	mg/Kg	0.5
101572-2	EF11-2	ND	mg/Kg	0.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	108

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101572
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL:UST EF-11,12,13

DATE RECEIVED: 09/05/90
DATE EXTRACTED: 09/05/90
DATE ANALYZED: 09/06/90
DATE REPORTED: 09/06/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101572-3	EF12-3	ND	ND	10
101572-4	EF12-4	ND	ND	10

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101572
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL: UST EF-11,EF-12, EF-13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/05/90
DATE REPORTED: 09/07/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101572-3	EF12-3	ND	ND	ND	ND	5.0
101572-4	EF12-4	ND	ND	ND	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	97

Curtis & Tompkins, Ltd

LAB NUMBER: 101572
CLIENT: BASELINE ENVIRONMENTAL
PROJECT # : S9-134.40
LOCATION: APL:UST EF 11,12,13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

ANALYSIS: HYDROCARBON OIL AND GREASE
METHOD: SMWW 17:5520F (503E)

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101572-5	EF13-5	94	mg/Kg	50

QA/QC SUMMARY

RPD, %	7
RECOVERY, %	85

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101572-5
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: EF13-5

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES
Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2-butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
dibromochloromethane	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2-hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	108%
Toluene-d8	100%
Bromofluorobenzene	100%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101572-5
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: EF13-5

DATE RECEIVED: 09/05/90
DATE EXTRACTED: 09/05/90
DATE ANALYZED: 09/06/90
DATE REPORTED: 09/06/90

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl Alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1650
2,4-Dimethylphenol	ND	330
Benzoic Acid	ND	1650
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1650
2,4-Dinitrophenol	ND	1650
4-Nitrophenol	ND	1650
4,6-Dinitro-2-methylphenol	ND	1650
Pentachlorophenol	ND	1650
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
Bis(2-chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
Bis(2-chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1650

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101572-5
SAMPLE ID: EF13-5

EPA 8270

BASE/NEUTRAL COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1650
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1650
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1650
Benzo (a) anthracene	ND	330
Chrysene	ND	330
Bis (2-ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	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

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	85%	Nitrobenzene-d5	75%
Phenol-d5	102%	2-Fluorobiphenyl	77%
2,4,6-Tribromophenol	99%	Terphenyl-d14	55%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101572-5
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
SAMPLE ID: EF13-5

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	0.6	mg/Kg	0.5	EPA 6010
Chromium	15	mg/Kg	0.5	EPA 6010
Lead	ND	mg/Kg	2.5	EPA 7420
Zinc	28	mg/Kg	0.5	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD	%RECOVERY
Cadmium	2	99
Chromium	<1	102
Lead	7	92
Zinc	<1	110

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

CHAIN OF CUSTODY RECORD

Turn-Around Time _____

Lab Curtis-Tompkins

Contact Person Jack Lee

Project No.	Project Name and Location
89-134.40	APL: UST EF-11 (2,000 UST) EF-12 (10,000 UST) EF-13 (550 UST)
Samplers: (Signature)	

No.	Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	TPH (Gasoline)	TPH (Diesel)	BTEX	Organic Lead	EPA 8240	EPA 8270	Oil & Grease	Lead, Cr, Cd, Zn	5035	Remarks	Detection Limits
1	EF11-1	9/5/90	—	Soil	8'	—	1	—	✓		✓	✓						24 hr. TA	LUFT Manual
2	EF11-2		—		8'	—	1	—	✓		✓	✓						✓ ✓	
3	EF12-3		—		10'	—	1	—		✓	✓							✓ ✓	
4	EF12-4		—		10'	—	1	—		✓	✓							✓ ✓	
5	EF13-5		—		7'	—	1	—					✓	✓	✓	✓		✓ ✓	
6	EF12-GW6		—	Water	11.5'	—	3	—		✓		✓						Normal TA	
7	EF12-GW7		—		11.5'	—	3	—		✓		✓						✓ ✓	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack Lee	9/5/90 2:40p	Mary E. Printer			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Charge to Port of Oakland P.O. # [redacted] 52840	

Trip e

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

DATE RECEIVED: 09/05/90
DATE REPORTED: 09/17/90

LAB NUMBER: 101573

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 2 WATER SAMPLES

PROJECT #: S9-134.40
LOCATION: APL:UST EF-11,EF-12,EF-13

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101573
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL:UST EF-11,EF-12,EF-13

DATE RECEIVED: 09/05/90
DATE EXTRACTED: 09/12/90
DATE ANALYZED: 09/17/90
DATE REPORTED: 09/17/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/L)	DIESEL RANGE (mg/L)	REPORTING LIMIT (mg/L)
101573-2	EF12-GW7	ND	5.8	0.5

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	91

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101573
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL:UST EF-11,EF-12,EF-13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/17/90

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

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)	REPORTING LIMIT * (ug/L)
101573-1	EF12-GW6	ND	0.9	0.8	ND	0.5

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	84

BLINE

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

CHAIN OF CUSTODY RECORD

Turn-Around Time _____

Lab Curtis-Tompkins

Contact Person Jack Lee

Project No. 99-134-40

Project Name and Location APL : UST EF-11 (2,000 UST) EF-12 (10,000 UST) EF-13 (550 UST)

Samplers: (Signature)

No.	Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	Analysis: TPH (Gasoline)	TPH (Diesel)	[illegible]	BTEX	Organic Lead	EPA 624/8240	EPA 8270	Oil & Grease / Lead, Cr, Cd, Zn	5030	Remarks	Detection Limits
1	EF11-1	9/5/90	—	Soil	8'	—	1	—	✓			✓	✓					24 hr. TA	LUFT Manual
2			—		8'	—	1	—	✓			✓	✓					✓ ✓	
3	EF12-3		—		10'	—	1	—		✓		✓						✓ ✓	
4	EF12-4		—		10'	—	1	—		✓		✓						✓ ✓	
5	EF13-5		—		7'	—	1	—			[illegible]			✓	✓	✓	✓	✓ ✓	
6	EF12-GW6		—	Water	11.5'	—	3	—		✓		✓	← don't run TPH normal TA						
7	EF12-GW7		—		11.5'	—	3	—		✓		✓						✓ ✓	
	no 7 vials											don't run BTXE as per Jack Lee 9/5/90							

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack Lee	9/5/90 2:40p	Mary E. Printer			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Charge to Port of Oakland - P.O. # [redacted] 52840	

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

DATE RECEIVED: 09/05/90
DATE REPORTED: 09/07/90

LAB NUMBER: 101569

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 18 SOIL SAMPLES

PROJECT #: S9-134.40
LOCATION: APL: EF11, EF12, EF13

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101569
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL: EF11,12,13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/06/90
DATE REPORTED: 09/06/90

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

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
101569-1	EF11-S1	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
101569-2	EF11-S2	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
101569-3	EF11-S3	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
101569-4	EF11-S4	ND(1.0)	7.8	ND(5.0)	ND(5.0)	ND(5.0)
101569-5	EF11-S5	1.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
101569-6	EF11-S6	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)

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

QA/QC SUMMARY

RPD, %	7
RECOVERY, %	91

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL: EF11, EF12, EF13

DATE RECEIVED: 09/05/90
DATE EXTRACTED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101569-7	EF12-S7	ND	ND	10
101569-8	EF12-S8	ND	ND	10
101569-9	EF12-S9	ND	ND	10
101569-10	EF12-S10	ND	ND	10
101569-11	EF12-S11	ND	ND	10
101569-12	EF12-S12	ND	41	10
101569-13	EF12-S13	ND	50	10
101569-14	EF12-S14	ND	ND	10
101569-15	EF12-S15	ND	63	10
101569-16	EF12-S16	ND	ND	10

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL: EF11,EF12,EF13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/08/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101569-7	EF12-S7	ND	ND	ND	ND	5.0
101569-8	EF12-S8	ND	ND	ND	ND	5.0
101569-9	EF12-S9	ND	ND	ND	ND	5.0
101569-10	EF12-S10	ND	ND	ND	ND	5.0
101569-11	EF12-S11	ND	ND	ND	ND	5.0
101569-12	EF12-S12	ND	ND	ND	ND	5.0
101569-13	EF12-S13	ND	ND	ND	ND	5.0
101569-14	EF12-S14	ND	ND	ND	ND	5.0
101569-15	EF12-S15	ND	ND	ND	ND	5.0
101569-16	EF12-S16	ND	ND	ND	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD	6
RECOVERY, %	96

Curtis & Tompkins, Ltd

LAB NUMBER: 101569
CLIENT: BASELINE ENVIRONMENTAL
PROJECT # : S9-134.40
LOCATION: APL:EF 11,12,13

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

ANALYSIS: HYDROCARBON OIL AND GREASE
METHOD: SMWW 17:5520F (503E)

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101569-17	EF13-S17	ND	mg/Kg	50
101569-18	EF13-S18	ND	mg/Kg	50

ND = Not detected at or above reporting limit

QA/QC SUMMARY

RPD, %	7
RECOVERY, %	85

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101569-17
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: EF13-S17

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES
Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2-butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
dibromochloromethane	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2-hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107%
Toluene-d8	108%
Bromofluorobenzene	94%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569-17
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: EF13-S17

DATE RECEIVED: 09/05/90
DATE EXTRACTED: 09/05/90
DATE ANALYZED: 09/06/90
DATE REPORTED: 09/06/90

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl Alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1650
2,4-Dimethylphenol	ND	330
Benzoic Acid	ND	1650
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1650
2,4-Dinitrophenol	ND	1650
4-Nitrophenol	ND	1650
4,6-Dinitro-2-methylphenol	ND	1650
Pentachlorophenol	ND	1650
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
Bis(2-chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
Bis(2-chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1650

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569-17
SAMPLE ID: EF13-S17

EPA 8270

BASE/NEUTRAL COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1650
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1650
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1650
Benzo (a) anthracene	ND	330
Chrysene	ND	330
Bis (2-ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	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

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	68%	Nitrobenzene-d5	49%
Phenol-d5	67%	2-Fluorobiphenyl	67%
2,4,6-Tribromophenol	50%	Terphenyl-d14	45%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569-17
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
SAMPLE ID: EF13-S17

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	1.3	mg/Kg	0.5	EPA 6010
Chromium	15	mg/Kg	0.5	EPA 6010
Lead	23	mg/Kg	2.5	EPA 7420
Zinc	37	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD	%RECOVERY
Cadmium	2	99
Chromium	<1	102
Lead	7	92
Zinc	<1	110

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101569-18
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: EF13-S18

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES
Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2-butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
dibromochloromethane	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2-hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	106%
Toluene-d8	91%
Bromofluorobenzene	103%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569-18
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: EF13-S18

DATE RECEIVED: 09/05/90
DATE EXTRACTED: 09/05/90
DATE ANALYZED: 09/06/90
DATE REPORTED: 09/06/90

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl Alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1650
2,4-Dimethylphenol	ND	330
Benzoic Acid	ND	1650
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1650
2,4-Dinitrophenol	ND	1650
4-Nitrophenol	ND	1650
4,6-Dinitro-2-methylphenol	ND	1650
Pentachlorophenol	ND	1650
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
Bis(2-chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
Bis(2-chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1650

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569-18
SAMPLE ID: EF13-S18

EPA 8270

BASE/NEUTRAL COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1650
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1650
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1650
Benzo (a) anthracene	ND	330
Chrysene	ND	330
Bis (2-ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	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

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

2-Fluorophenol	69%	Nitrobenzene-d5	50%
Phenol-d5	70%	2-Fluorobiphenyl	69%
2,4,6-Tribromophenol	56%	Terphenyl-d14	51%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101569-18
CLIENT: BASELINE ENVIRONMENTAL
PROJECT #: S9-134.40
SAMPLE ID: EF13-S18

DATE RECEIVED: 09/05/90
DATE ANALYZED: 09/07/90
DATE REPORTED: 09/07/90

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	0.9	mg/Kg	0.5	EPA 6010
Chromium	13	mg/Kg	0.5	EPA 6010
Lead	12	mg/Kg	2.5	EPA 7420
Zinc	26	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD	%RECOVERY
Cadmium	2	99
Chromium	<1	102
Lead	7	92
Zinc	<1	110

101969

BASELINE

5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

CHAIN OF CUSTODY RECORD

Turn-Around Time 24 hrs.
Lab Curtis - Tompkins
Contact Person Jack Lee

Project No.	Project Name and Location
89-134.40	APL: EF 11, EF 12, EF 13

Samplers: (Signature) Jack Lee

No.	Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	TPH(D)	BTEX		TPH(mo)	Oil & Grease	EPA 8240	EPA 8270	Metals (Pb, Cr, Zn)		Remarks	Detection Limits
10	EF12-S10	9/5/90		Soil			1	EF 12	✓	✓									PQL'S LIMITS
11	EF12-S11						1		✓	✓									
12	EF12-S12						1		✓	✓									
13	EF12-S13						1		✓	✓									
14	EF12-S14						1		✓	✓									
15	EF12-S15						1		✓	✓									
16	EF12-S16						1		✓	✓									
17	EF13-S17						1	EF 13				✓	✓	✓	✓				
18	EF13-S18						1					✓	✓	✓	✓				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Jack Lee	9/5/90 10 40	Irene Kan	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time
			9/5/90 12:40

Condition of Samples upon Arrival at Laboratory:
Bill to Port of Oakland
P.O. # 52840

Remarks: OIL & GREASE ANALYSIS BY SMWW 503 E
TPH(D) = TPH - DIESEL

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

CHAIN OF CUSTODY RECORD 101569

Turn-Around Time 24 hrs.
Lab Curtis · Tompkins
Contact Person Jack Lee

Project No.	Project Name and Location
89-134.40	APL: EF11, EF12, EF13

Samplers: (Signature) Jack Lee

No.	Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	TPH (G)	TPH (D)	BTEX	Remarks	Detection Limits
1	EF11-S1	9/5/90	—	Soil			1	EF 11	✓		✓		RWQCB LIMITS
2	EF11-S2	9/5/90					1		✓		✓		
3	EF11-S3	9/5/90					1		✓		✓		
4	EF11-S4	9/5/90					1		✓		✓		
5	EF11-S5	9/5/90					1		✓		✓		
6	EF11-S6	9/5/90					1		✓		✓		
7	EF12-S7	9/5/90					1	EF 12		✓	✓		
8	EF12-S8	9/5/90					1			✓	✓		
9	EF12-S9	9/5/90					1			✓	✓		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Condition of Samples upon Arrival at Laboratory:
Jack Lee	9/5/90 1040	Irene Kan		Bill to Port of Oakland P.O. # 52840
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time 9/6/90 10:40	Remarks:

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

DATE RECEIVED: 09/11/90
DATE REPORTED: 09/12/90

LAB NUMBER: 101625

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 2 SOIL SAMPLES

PROJECT #: S9-134.40
LOCATION: APL UST EF:HP-S

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101625
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
LOCATION: APL UST EF-14:HP-S

DATE RECEIVED: 09/11/90
DATE EXTRACTED: 09/11/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/12/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101625-1	HP-S1	ND	32	10
101625-2	HP-S2	ND	ND	10

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101625
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL UST EF-14:HP-S

DATE RECEIVED: 09/11/90
DATE ANALYZED: 09/11/90
DATE REPORTED: 09/12/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101625-1	HP-S1	ND	ND	10	ND	5.0
101625-2	HP-S2	ND	ND	6.5	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	88

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101625-1
CLIENT: BASELINE ENVIRONMENTAL
JOB #: S9-134.40
SAMPLE ID: HP-S1

DATE RECEIVED: 09/11/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/12/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES
Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result ug/kg	Reporting Limit (ug/kg)
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2-butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
dibromochloromethane	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2-hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102%
Toluene-d8	107%
Bromofluorobenzene	92%

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

10/625

CHAIN OF CUSTODY RECORD

Turn-Around Time 24 hrs.
Lab Curtis - Tompkins
Contact Person Jack Lee

Project No.	Project Name and Location
91-134.40	APL UST EF-14 : HP-5

Samplers: (Signature) Jack Lee

No.	Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location
	HP-S1	9/10/90		Soil				Excavated HP Random - pile
	HP-S2	9/10/90		Soil				Pipeline Random - pile

Analysis: TPH (D) ✓ | BTEX ✓ | 8240 ✓ | added 9/11 11:15 am by Jack Lee

Remarks	Detection Limits
24 HR - TA	
24 HR - TA	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jack Lee	9/11/90	9/11/90 950 am Nancy Ahlen			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Charge to Port of Oakland P.O. # 52814-0	

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101626
CLIENT: BASELINE ENVIRONMENTAL
JOB #: 89-134.40
LOCATION: APL:UST EF14-HP

DATE RECEIVED: 09/11/90
DATE EXTRACTED: 09/17/90
DATE ANALYZED: 09/18/90
DATE REPORTED: 09/18/90

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

LAB ID	CLIENT ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT (mg/Kg)
101626-1	HP-1	ND	2.1	1.0
101626-2	HP-2	ND	200	10
101626-3	HP-3	ND	2.7	1.0
101626-4	HP-4	ND	1.8	1.0
101626-5	HP-5	ND	5.3	1.0
101626-6	HP-6	ND	9.7	1.0
101626-7	HP-7	ND	2.3	1.0

ND = Not Detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	82

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 101626
CLIENT: BASELINE ENVIRONMENTAL
JOB NUMBER: S9-134.40
JOB LOCATION: APL:UST EF14-HP

DATE RECEIVED: 09/11/90
DATE ANALYZED: 09/14/90
DATE REPORTED: 09/18/90

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

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
101626-1	HP-1	ND	ND	10	ND	5.0
101626-2	HP-2	ND	ND	9.1	ND	5.0
101626-3	HP-3	ND	ND	7.3	ND	5.0
101626-4	HP-4	ND	ND	6.1	ND	5.0
101626-5	HP-5	ND	ND	7.3	ND	5.0
101626-6	HP-6	ND	ND	10	ND	5.0
101626-7	HP-7	ND	ND	5.2	ND	5.0

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	6
RECOVERY, %	83

BASELINE

101 H Street, Suite L
Petaluma, CA 94952
(707) 762-5233

CHAIN OF CUSTODY RECORD

Turn-Around Time Normal
Lab Curtis - Tompkins
Contact Person Jack Lee

Project No.	Project Name and Location
89-134.40	APL : UST EF-14 - HP

Samplers: (Signature)

No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	Analysis: TPH (Diesel)	Analysis: BTEX	Remarks	Detection Limits
HP-1	9/10/90		Soil	5'		1		✓	✓		
HP-2	9/10/90		Soil	5'		1		✓	✓		
HP-3	9/10/90		soil	4'		1		✓	✓		
HP-4	9/10/90		soil	3'		1		✓	✓		
HP-5	9/10/90		Soil	2'8"		1		✓	✓		
HP-6	9/11/90		soil	2'8"		1		✓	✓		
HP-7	9/11/90		Soil	2'6"		1		✓	✓		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/10/90 9/11/90 9:50	[signature]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Charge to Port of Oakland - P.O. # 52840	

APPENDIX D

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

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 _____ DATE _____

REPORT DATE: 09 / 17 / 90 (M / D / Y)

CASE #:

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Jack Lee
PHONE: (707) 762-5233
SIGNATURE: Jack Lee JR

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: Baseline Environmental Consulting

ADDRESS: 101 H Street, Suite L (STREET) Petaluma (CITY) California (STATE) 94952 (ZIP)

RESPONSIBLE PARTY

NAME: Port of Oakland ☐ UNKNOWN
CONTACT PERSON: Neil Werner
PHONE: (415)272-1176

ADDRESS: 530 Water Street (STREET) Oakland (CITY) California (STATE) 94607 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): American President Lines
OPERATOR: same
PHONE: (415)272-2040

ADDRESS: 1395 Middle Harbor Road (STREET) Oakland (CITY) Alameda (COUNTY) 94607 (ZIP)

CROSS STREET:
TYPE OF AREA ☐ COMMERCIAL ☒ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER _____
TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ FARM ☒ OTHER shipping

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: Alameda County Environmental Health
CONTACT PERSON: Dennis Byrne
PHONE: (415)271-4320

REGIONAL BOARD: San Francisco
PHONE: ( )

SUBSTANCES INVOLVED

(1) NAME: Diesel
QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN

(2) NAME:
QUANTITY LOST (GALLONS): _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 09 / 17 / 90 (M / D / Y)
HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER _____

DATE DISCHARGE BEGAN: __ / __ / __ (M / D / Y) ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: 09 / 05 / 90 (M / D / Y)

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☒ OTHER tank removed

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER

TANKS ONLY/CAPACITY: 10,000 GAL. AGE _____ YRS ☐ UNKNOWN

MATERIAL: ☐ FIBERGLASS ☒ STEEL ☐ OTHER _____

CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☒ UNKNOWN ☐ SPILL ☐ 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
☐ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
☒ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

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)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____

COMMENTS

Port Tanks I.D. - EF12, EF11, EF13

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 _____ DATE _____

REPORT DATE: 09/04/90 CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Jack Lee
PHONE: (707) 762-5233
SIGNATURE: Jack Lee SK
REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER
COMPANY OR AGENCY NAME: Baseline Environmental Consulting
ADDRESS: 101 H Street, Suite L (STREET) Petaluma (CITY) California (STATE) 94952 (ZIP)

RESPONSIBLE PARTY
NAME: Port of Oakland ☐ UNKNOWN
CONTACT PERSON: Neil Werner
PHONE: (415) 272-1176
ADDRESS: 530 Water Street (STREET) Oakland (CITY) California (STATE) 94607 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): American President Lines
OPERATOR: same
PHONE: (415) 272-2040
ADDRESS: 1395 Middle Harbor Road (STREET) Oakland (CITY) Alameda (COUNTY) 94607 (ZIP)
CROSS STREET:
TYPE OF AREA ☐ COMMERCIAL ☒ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER
TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ FARM ☒ OTHER shipping

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: Alameda County Environmental Health
CONTACT PERSON: Dennis Byrne
PHONE: (415) 271-4320
REGIONAL BOARD: San Francisco Regional Water Quality Control Board
PHONE: ( )

SUBSTANCES INVOLVED
(1) NAME: Diesel — QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
(2) _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 08/30/90
HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER
DATE DISCHARGE BEGAN: __/__/__ ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 08/30/90
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☒ OTHER tank removed

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: 10,000 GAL. AGE _____ YRS ☐ UNKNOWN
MATERIAL: ☒ FIBERGLASS ☐ STEEL ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☐ UNKNOWN ☐ SPILL ☒ OTHER tank seams

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
☐ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
☒ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

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)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____

COMMENTS
Port Tank I.d. - EF14

HSC 05 (4/87)