Versar INC.

USTs 2 and 5/4
12K bunker C
1K diesel

FINAL REPORT

UNDERGROUND STORAGE TANK
REMOVALS
FAIRMONT HOSPITAL
15400 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

COUNTY PROJECT NUMBER: 7019
COUNTY BUILDING NUMBER: 5519

Prepared for:

ALAMEDA COUNTY
GENERAL SERVICES AGENCY
ENGINEERING & ENVIRONMENTAL MANAGEMENT
1401 LAKESIDE DRIVE
OAKLAND, CALIFORNIA

Prepared by:

VERSAR, INC.
1255 HARBOR BAY PARKWAY, SUITE 100
ALAMEDA, CALIFORNIA 94502

Versar Project Number: 2241-025

January 11, 1996

Versar INC.

93 JAN 25 AM 9:37

TABLE OF CONTENTS

Versar INC.

EXECUTIVE SUMMARY

Versar, Inc. (Versar) was retained by Alameda County General Services Agency (County) to conduct the removal of one 12,000 gallon and one 1,000 gallon underground storage tanks (UST) from the Fairmont Hospital property located at 15400 Fairmont Boulevard in San Leandro, California. A total of five USTs were originally located at this site, these are the final two USTs to be removed. Prior to initiation of field activities, Versar obtained the necessary permits and scheduled the appropriate subcontractors to conduct the UST removals. The excavation and removal of the USTs was performed under the supervision of a representative from the Alameda County Health Care Services Agency (ACHCSA) and the Alameda County Fire Department. Field activities were initiated on May 17, 1995 and were completed on June 17, 1995.

The 12,000 gallon UST (UST No. 2) formerly located at the site was installed in 1952, and the 1,000 gallon UST (UST No. 4) in 1968. Approximately 2,500 gallons of Bunker C oil contaminated with polychlorinated biphenyls (PCBs) was removed from UST No. 2 and transported to Fuel Oil Processors in Portland, Oregon for incineration. Due to the nature of the former contents of UST No. 2, the tank was transported to Phillips-Burlington Environmental in Washington for cleaning and destruction. UST No. 4 and an additional 500 gallon temporary above ground diesel storage tank were transported to Erickson Environmental, Inc. in Richmond, California for cleaning and destruction. Upon removal and inspection of the USTs, no holes, breech points, or other signs of discharge were observed. Soil samples collected from the base of the excavations and from soil stockpiles generated during removal of the USTs were analyzed for total petroleum hydrocarbons as diesel (TPH-D) in accordance with Environmental Protection Agency (EPA) Method No. 8015 (modified), and for benzene, toluene, ethylbenzene and xylenes (BTEX) in general accordance with EPA Method No. 8020. In addition, soil samples collected in association with the removal of UST No. 2 were analyzed for PCBs in accordance with EPA Method No. 8080.

Laboratory analysis of the soil samples collected in association with the removal of UST No. 2 did not detect TPH-D or BTEX constituents. PCBs were reported in one stockpile soil sample at a concentration of 0.1 milligrams per kilogram (mg/kg). However, the total threshold limit concentration value for PCBs in soil is 50 mg/kg. Additionally, neither stained soils nor hydrocarbon odors were observed during the tank removal. Based on the field observations and the results of the laboratory analysis, there are no indications that a discharge from the use of UST No. 2 has occurred. The excavation was subsequently backfilled with the stockpiled soils and imported gravel.

Laboratory analysis of the soil samples collected from the base of the excavation for UST No. 4 did not detect TPH-D or BTEX constituents. TPH-D was detected in the stockpile soil sample at a concentration of 43 mg/kg. During the initial excavation to expose the tank, a small amount of surface water (less than 10 gallons) leaked from beneath the adjacent building foundation into the tank pit. A sample of this water was reported to contain TPH-D at a concentration of 1.9 mg/l. However, since no holes were observed in the tank, and since sample analytical data indicated petroleum hydrocarbons were not present in the excavation samples, it does not appear that the UST

leaked. Furthermore, shallow near-surface soil impacted by petroleum hydrocarbons were likely excavated during completion of the tank removal. Approximately 15 cubic yards of soil and the water were combined and disposed of at a local Class III landfill. The excavation was subsequently backfilled with imported gravel.

Previous investigations conducted at this site in association with past UST removals have reported petroleum hydrocarbons to be present in discrete locations of the subsurface. However, results of eleven soil borings drilled in the immediate vicinity of the USTs does not indicate a hydrocarbon plume exists in the vadose zone soils beneath the site. Additionally, benzene has not been detected in any of the soil samples analyzed from past or present investigations at the site.

Based on the historic data reviewed for this report combined with the field observations and data gathered during the UST removals performed by Versar, there is a low likelihood that groundwater beneath the site will be impacted from the USTs formerly located at the site. As such, it is our opinion that no further action is necessary for this site. Versar recommends that the County should request site closure from the Alameda County Health Care Services Agency (ACHCSA).

Approved for release:

Tim Berger, C.E.G.
Senior Geologist
Project Manager

John C. Bird, R.E.A.
Senior Hydrogeologist
Program Manager

Versar INC.

1.0 INTRODUCTION

Versar, Inc. (Versar) was retained by the Alameda County General Services Agency (County) to perform the removal of one 12,000 gallon and one 1,000 gallon UST from the Fairmont Hospital property (site) located at 15400 Foothill Boulevard in San Leandro, California (Figure 1). The scope developed to accomplish the work included the following tasks: 1) obtaining permits for tank removals and scheduling the appropriate subcontractors; 2) removal of the USTs and residual tank contents; 3) collecting and analyzing samples from soil stockpiles and soils surrounding the USTs; 4) evaluating the analytical data and developing a report to document the field activities.

1.1 Background

Three underground storage tanks, 2-12,000 gallon and 1-1,000 gallon capacity were originally located side by side, adjacent to the hospital facility's powerhouse shop on the northwestern portion of the site (Figure 2). Available information indicates the 12,000 gallon tanks were installed in 1952 to store Bunker C oil, while the 1,000 gallon tank was installed in 1968 to store diesel fuel. In June 1988, three vapor monitoring wells were installed adjacent to the 12,000 gallon USTs. Analysis of soil samples collected from depths of 12 and 17 feet below ground surface (bgs) in one of the well borings drilled adjacent UST No. 1 contained total recoverable petroleum hydrocarbons at concentrations of 53 and 166 milligrams per kilogram (mg/kg), respectively. Drilling and sampling were performed by Gregg & Associates, Inc. In April 1993, Environmental Science and Engineering, Inc. (ESE) drilled three additional borings adjacent to UST No. 1 to assess a UST release. However, analysis of soil samples collected from borings were not reported to contain total petroleum hydrocarbons as diesel (TPH-D), or the constituents benzene, toluene, ethylbenzene, and xylenes (BTEX) at concentration equal to, or exceeding the laboratory method detection limits. Based on these results, and on the close proximity of UST No. 1 to the building foundation, ESE recommended an in-place closure of [redacted]. Geostrategies, Inc. performed the in-place closure of the 12,000-gallon UST in August, 1994. Abandonment of this tank was accomplished by filling the tank with a sand slurry cement (Geostrategies, 1994).

UST 1
- 12,000 gal
- in place closure '94

UST 2
-12K gal
- removed 5/95

UST 3
- 1000 gal
- removed 7/93

In July 1993, ESE performed the removal of the 1,000-gallon UST ([redacted]). Soil samples collected within the excavation during the 1,000 gallon UST removal were reported to contain diesel-range hydrocarbons at concentrations up to 12,000 mg/kg. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were not reported to be present in these samples (ESE,1993). During subsequent investigation work, Versar drilled five soil borings along the western, southern and eastern perimeters of UST No. 3 backfilled excavation. Analysis of 9 soil samples collected from depths up to 16.5 feet bgs in these borings were not reported to contain diesel range hydrocarbons. Xylenes, however, were reported in 6 of the samples at concentrations ranging from 0.010 to 0.028 mg/kg. No other BTEX constituents were detected during these analyses (Versar, 1994).

1.2 Purpose of the Report

The purpose of this report is to provide a description of the field activities performed and conditions observed during the UST No. 2 and No. 4 removals; document the UST removal and destruction; present the soil sample analytical results; and provide recommendations as necessary, based on the field work, laboratory analytical results, and local regulatory agency guidelines.

1.3 Site Setting

The site is located adjacent to the southwestern flank of the San Leandro Hills at a general elevation of 100 feet above mean sea level. Much of the property to the north and east of the site is undeveloped County park lands. The County of Alameda Juvenile Hall is located directly north of the site. Foothill Boulevard and Freeway 580 are located directly west and southwest of the site. Light commercial and limited residential developments occupy the property south and southeast of the site. The San Francisco Bay lies approximately 3.5 miles west of the site.

The specific areas of investigation are located within the central portions of the site property as shown in Figure 2.

1.4 Regional Geologic and Hydrogeologic Setting

Regionally, the site is located directly west of the Hayward Fault paralleling the base of the San Leandro Hills on the western fringe of the Diablo Range (DWR, 1988). Shallow, near surface sediments beneath the site consist of coarse-grained alluvium deposits transported from the adjacent highlands on to the low lying terrace margin to the San Francisco Bay. These sediments are typically composed of unconsolidated and poorly sorted sands, silts and gravel ranging up to 50 feet thick. These sediments overlay older more consolidated sandstones, shale and conglomerates deposited in an ancient marine environment during the Cretaceous period over 65 million years ago (mya). Bedrock underlying these formations consists of the Franciscan Complex, a chaotic melange of weathered igneous, sedimentary, and metamorphic rocks formed during the Jurassic Period over 136 mya (Page et. al., 1966).

Groundwater reportedly occurs at depths greater than 45 feet beneath the ground surface in the vicinity of the site. The regional groundwater flow direction is west to northwesterly (ACWD, 1994).

2.0 FIELD INVESTIGATION

Prior to initiation of field activities, a UST Closure Plan was submitted to and approved by the Alameda County Health Care Services Agency (ACHCSA), and permits for the removal of the UST were obtained from the Alameda County Fire Department (ACFD). A notification form was also filed with the Bay Area Air Quality Management District. In addition, a field appointment was scheduled with the ACFD to observe the UST removal. All permits and receipts obtained or received in association with the tank removal are presented in Appendix A. Underground Service Alert was notified of the date and location of the intended excavation activities prior to the start of the field activities.

Fisch Environmental Construction Services (Fisch) was retained by Versar to perform the UST removals. The procedures used for accomplishing the tank removals, information regarding soil sample collection and analysis, and observed field conditions are presented below.

2.1 Underground Storage Tank Removal Procedures

On May 17, 1995 Fisch removed the concrete surface cover and soil overlying the subject USTs. The following day, the soil surrounding the southeastern and southern portions of UST No. 2 were excavated and the southeastern end of the tank was lifted to facilitate product removal from the tank. Surface concrete covering the tanks were transported to a concrete and asphalt paving company in Richmond, California for recycling. Excavated soils were stockpiled on plastic adjacent to the tank pits. Approximately 2,500 gallons of Bunker C oil was removed from UST No. 2 and less than 100 gallons of diesel fuel was additionally removed from UST No. 4. Removal of the residual product from the tanks was accomplished using a vacuum truck owned and operated by Universal Environmental. The tank contents were transported to Enviro-pur, a treatment, storage and disposal facility (TSDF) located in Patterson, California. Prior to acceptance by the TSDF a sample of the product was collected for profiling purposes. Sample analytical results indicated that the oil contained polychlorinated biphenyls (PCBs) at a concentration of 27 mg/kg. As a result of this discovery, a confirmation sample of the residual sludge contained in UST No. 2 was collected by Versar personnel and submitted to a state-certified laboratory for PCB analysis. Laboratory results indicated the contents of the tank to contain PCBs at a concentration of 8.0 mg/kg. Based on these results Universal Environmental transported the Bunker C oil as hazardous waste under manifest (Appendix A) to Fuel Oil Processors in Portland, Oregon for incineration.

Tank removals were performed on May 23, 1995 under the supervision of personnel from the ACFD and the ACHCSA. Prior to removal, the internal atmospheres of each tank was inerted using dry ice. Approximately 250 pounds of dry ice was inserted into UST No. 2, and approximately 30 pounds of dry ice was used to inert UST No. 4. At the request of the County a 500 gallon above ground tank (AST) used for temporary storage of diesel fuel was also inerted with dry ice for removal. The lower explosive limits (LEL) of the internal atmospheres of each tank were monitored with a combustible gas meter. Meter readings for each tank were measured at 0.0

percent oxygen under supervision of a representative from the ACFD. Based on these measurements, the tanks were approved for removal and transport by the ACFD

Following removal of the tanks from the excavations, soil and rust adhering to the tanks were removed and the tanks were closely inspected for corrosion holes and deterioration points. Abundant rust and corrosion was observed on the end of the tank nearest the fill-port on UST No. 2, however no holes, breach points, or signs of leaks were observed. Additionally, UST No. 4 appeared to be in very good condition.

Following inspection by Mr. Seery of the ACHCSA, UST No. 4 and the AST were transported as hazardous waste under manifest by Erickson Environmental, Inc. to their TSDF in Richmond California. A copy of the Uniform Hazardous Waste Manifest for these tanks is provided in Appendix A. Due to the presence of PCBs in UST No. 2, the tank was removed from the excavation and stored on plastic adjacent to the excavation pending arrangements for out-of-state transport for cleaning and destruction. UST No. 2 was transported as hazardous waste to Phillips-Burlington Environmental in Washougal, Washington on May 23, 1995. A copy of the Uniform Hazardous Waste Manifest and the tank destruction certificate for this tank is provided in Appendix A.

2.2 Soil Conditions and Soil Sampling Procedures

The dimensions of the excavation created during removal of UST No. 2 were 35 feet in length, 13 feet in width, and 11 feet in depth. The stratigraphy surrounding UST No. 2 consisted of a highly fractured sandstone and serpentinite bedrock. Fill material surrounding portions of the tank was composed of a dark brown silty sand. Within the near surface soils, a sandy gravel fill was present above the tank to a depth of approximately three feet bgs. Two product lines were located within this portion of the backfill in the northwest end of the excavation. The vent line for UST No. 2 was located in the southwest end of the excavation within this fill material. An additional vent line from UST No. 1 was located within the fill in the northeast corner of the excavation. The vent and product lines encountered during the tank removals were cut and capped at the excavation sidewalls. In addition, the product lines for UST No. 2 were swabbed to remove residual oil product and then filled with a mixture of plastic cement and portland cement. An 8-inch diameter cement storm drain runs parallel to the northwest end of the excavation within the backfill. This line was damaged during excavation procedures; however, the drain line was repaired by building maintenance personnel at the site. No other utility lines or potential conduits were observed in the excavation. No stained soils or odors were observed throughout the excavation and removal procedures. Furthermore, there were no indications of groundwater, or saturated or moist soils within the excavation during the removal procedure.

The dimensions of the excavation resulting from the removal of UST No. 4 were 12 feet in length, 7 feet in width, and 5 feet in depth. Soils encountered in this excavation consisted mostly of alternating layers of sand and clay. The upper 12 to 18 inches of soil consisted of a moderate brown fine sand. Beneath this sand layer was a dark grey stiff clay approximately 12 inches in

thickness. The remainder of the soil, to an approximate depth of 7 feet bgs, was a heterogeneous mixture of fine sand to sandy clay. A concrete anchor pad was located in the base of the excavation. During excavation and exposure of UST No. 4 an apparent perched water layer (less than 10 gallons) ran from beneath the building foundation from the southern end of the excavation. The water remained in the excavation for approximately 48 hours in contact with the tank. A sample of this water was collected prior to removal of the tank. No sheen or other visual evidence of hydrocarbon product was observed on the water. The water was pumped from the excavation into a barrel. No additional water entered the excavation following the initial pumping. A minor petroleum odor was observed during the initial excavation procedures.

In accordance with ACHCSA requirements, three soil samples were collected from the base of the excavation of UST No. 2 (Figure 3), and one from each end of the anchor pad at the base of the excavation of UST No. 4 (Figure 4). Soil sample collection was accomplished by manually advancing sample tubes into soil retrieved with the bucket of the backhoe. In addition, samples were also collected from the soil stockpiles generated from removal of each UST. Approximately 50 cubic yards of soil was excavated during removal of UST No. 2; and less than 5 cubic yards of soil was excavated during removal of UST No. 4. Based on these soil volumes and ACHCSA guidelines, three soil samples were collected from the stockpiles at UST No. 2; and one soil sample was collected from the stockpile at UST No. 4. Upon collection, each sample tube was covered with teflon film and plastic end caps, labeled with the appropriate identification, and placed in an insulated chest with ice pending laboratory delivery. Soil sample collection was supervised by Mr. Seery of the ACHCSA.

2.3 Soil Sample Analytical Results

Soil samples were submitted to McCampbell Analytical, Inc. in Pacheco, California. All sample collection, handling and transport was performed in accordance with chain-of-custody protocols, including the use of chain-of-custody forms. The laboratory analytical reports and chain-of-custody forms are presented in Appendix B. Samples were analyzed for TPH-D in accordance with Environmental Protection Agency (EPA) Method No. 8015 (modified), and for BTEX in general accordance with EPA Method No. 8020. Each of the six soil samples collected in association with the removal of UST No. 2 were analyzed for PCBs in accordance with EPA Method No. 8080. In addition, a sample was collected from the perched water standing in the excavation and analyzed for TPH-D.

TPH-D and BTEX were not reported to be present in the soil samples collected from beneath either of the USTs or in samples collected from the stockpile at UST No. 2 at concentrations exceeding or equal to the detection limits of the analytical methods used. TPH-D was reported in the soil sample collected from the stockpile at UST No. 4 at a concentration of 43 mg/kg. BTEX was not detected in the sample. PCBs were reported in sample FMT-SP1 at a concentration of 0.1 mg/kg. PCBs were not reported to be present in any of the other soil samples collected from UST No. 2. Based on values for characteristics of toxicity as listed in the California Code of Regulations,

Lab report does not bear this out -

PCB << 22CCR haz waste

Title 22 Section 66261.24, the Total Threshold Limit Concentration (TTLC) for PCBs in soil is 50 mg/kg (CCR, 1994). Analytical results for the perched water sample at UST No. 2 reported TPH-D at a concentration of 1.9 milligrams per liter (mg/l).

2.4 Excavation Backfilling

Based on the results of the laboratory analysis for the soil samples collected from within the excavation and from the soil stockpiles for UST No. 2, the excavated soils were used as backfill. Re-use of the soil stockpiles as backfill was performed under approval of Mr. Seery of the ACHCSA. Backfilling of the excavation was completed with an additional 90 cubic yards of imported gravel.

Due to the presence of TPH-D (43 mg/kg) detected in the stockpile sample collected from UST No. 4, excavated soils from UST No. 4 were transported as non-hazardous special waste to Vasco Road Landfill in Livermore, California for disposal. The receipt tag for the transport and disposal of this soil is presented in Appendix A. The excavation for UST No. 4 was backfilled with imported gravel and covered with native soils from the surrounding landscape. Following completion of excavation backfilling, the concrete walkway that had covered the northwest end of the UST was replaced.

3.0 DISCUSSION OF INVESTIGATION RESULTS

A discussion of the observed field conditions relating to the removal of the USTs and results of the soil sample analytical data are presented in the following section.

3.1 UST No. 2

One 12,000 gallon UST (UST No. 2) contaminated with PCBs and associated product lines were removed from the site and transported to Phillips-Burlington Environmental in Washougal, Washington for cleaning and destruction. The 12,000 gallon UST was a single-wall steel-riveted tank previously used for storage of Bunker C oil. The product supply and vent lines were capped following removal of the tanks. The remaining sections product lines running from the sidewall of the excavation to the power house building were further sealed using a mixture plastic and portland cements. No holes or signs of discharge from the tank were observed following its removal. Similarly, no discolored or stained soils, or petroleum hydrocarbon odors were observed during soil excavation and UST removal.

With exception to one stockpile soil sample, TPH-D, BTEX and PCBs were not detected in the soil samples collected during this tank removal. PCBs were reported in one stockpile sample (FMT-SP1) at a concentration of 0.1 mg/kg. The TTLC value listed for soils in Title 22 is 50 mg/kg. Based on these results the stockpiled soil was used as backfill for the excavation.

cleared by ACDEH and RWQCB

Based on the observed field conditions and soil sample analytical results, it does not appear that a release of petroleum hydrocarbons from UST No. 2 has occurred. Although historic analytical data collected during previous investigations indicate hydrocarbons were present in discrete zones of subsurface, eleven soil borings drilled adjacent to these tank locations indicate a definable hydrocarbon plume is not present beneath the site. In addition, benzene has not been detected in any of the soil samples collected from this site. In consideration of this data and the reported depth to groundwater, additional investigation for this site is not warranted.

3.2 UST No. 4

One 1,000 gallon UST (UST No. 4) was removed from the site and transported under manifest to Erickson Environmental, Inc. in Richmond, California for disposal. The 1,000 gallon tank was a single-wall welded-steel tank previously used to store diesel fuel. No stained soils or other visual signs of discharge were observed during removal of the UST. However during removal of the overburden soils to expose the upper portion of the tank, a minor petroleum odor was noticed. In addition, a small amount of perched water ran from beneath the foundation of the adjacent building into the excavated area along side of UST No. 4. There was no sheen observed on the surface of the water. Since the water had entered the excavation from approximately 1 foot below grade and adjacent to the building foundation, it does not appear to represent groundwater. A sample was collected from the excavation the following day. Less than ten gallons of water was pumped from the excavation following removal of the tank. No additional water entered the excavation after the initial pumping. Approximately six cubic yards of soil was also excavated from the excavation during the tank removal.

Analytical results of the soil samples collected from the base of the excavation for UST No. 4 were not reported to contain TPH-D or BTEX. The sample collected from the soil stockpile was however, reported to contain TPH-D at a concentration of 43 mg/kg. BTEX constituents were not detected. In addition, TPH-D was reported present in the water sample at a concentration of 1.9 mg/l. Based on these results the soil stockpile and water were combined and transported to a Class III sanitary landfill for disposal.

not true
Gw

Based on field observations regarding the condition of the tank and surrounding soil it does not appear that the UST leaked. Since TPH-D was not detected in soil samples collected from beneath the former tank, TPH-D appears to have only been present in near surface soils adjacent to UST No. 4. Any impacted soils were likely excavated during tank removal. Since TPH-D was only reported in the stockpile soil sample, and BTEX constituents were not detected in any of the soil samples no further action is recommended in association with this tank removal.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the data collected and reviewed for this report, current regulatory guidelines, and the professional judgement of Versar, the following conclusions have been drawn:

- One 12,000 gallon UST contaminated with PCBs and associated product lines were removed from the site and transported to a licensed TSDF in Washougal, Washington.
- Approximately 2,500 gallons of Bunker C oil contaminated with PCBs was transported to Fuel Oil Processors in Portland, Oregon for incineration.
- One 1,000 gallon UST, and one 500 gallon AST were removed from the site and transported to Erickson Environmental, Inc. in Richmond, California for cleaning and destruction.
- No holes or visual signs of leaks were observed in any of the tanks removed from the site.
- Analysis of three soil samples collected from the bottom of the excavation of UST No. 2 were reported to not contain detectable concentrations of TPH-D, BTEX constituents, or PCBs.
- Analysis of two soil samples collected from the base of the excavation of UST No. 4 were reported to not contain detectable concentrations of TPH-D or BTEX.
- Based on historical data, discrete zones of hydrocarbon impacted soil may be present in the subsurface surrounding the former UST locations; however, a definable vadose zone plume is not judged to be present in the subsurface.
- Benzene has not been reported present in any of the soil samples collected at the site during present or past UST removals or investigations at this site.
- The former UST No. 2 excavation was backfilled with the excavated soil and clean, imported gravel.
- The former UST No. 4 excavation was backfilled with clean, imported gravel.
- Soil stockpiles generated during removal of UST No. 4 were disposed as non-hazardous waste at a Class III landfill facility.
- Groundwater is reported to occur in excess of 45 feet bgs and was not encountered during this investigation.

- There is a low likelihood that groundwater beneath the site has been impacted by the use of the former USTs discussed in this report.

- No additional investigation in association with the USTs formerly located at this site is warranted.

Based on the historic data reviewed for this report combined with the field observations and data gathered during the UST removal performed by Versar, it is our professional judgement that no further action is necessary to obtain site closure at the Fairmont Hospital. As such, the County should request site closure from the ACHCSA.

5.0 REFERENCES

ACWD, 1994, Telephone conversation with Ted Trenholme, Alameda County Water District, June 30, 1994

DWR, (1968), Evaluation of Groundwater Resources South Bay, Volume I: Fremont Study Area, Bulletin No. 118-1, Department of Water Resources

Page, B. M. (1966). "Geology of the Coast Ranges of California" in Geology of Northern California: Bulletin 190. California Division of Mines and Geology.

U. S. Geological Survey (1986). Niles Quadrangle, Alameda, California, 7.5 minute series (topographic). U. S. Department of the Interior.

6.0 STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

- The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence of oil or hazardous materials and substances in the environment as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.

- Versar derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, and a limited number of environmental samples, as indicated by the Scope of Services for the Site. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, conclusions, and recommendations expressed in the report.

- In preparing this report, Versar has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, Versar has not attempted to verify the accuracy or completeness of such information.

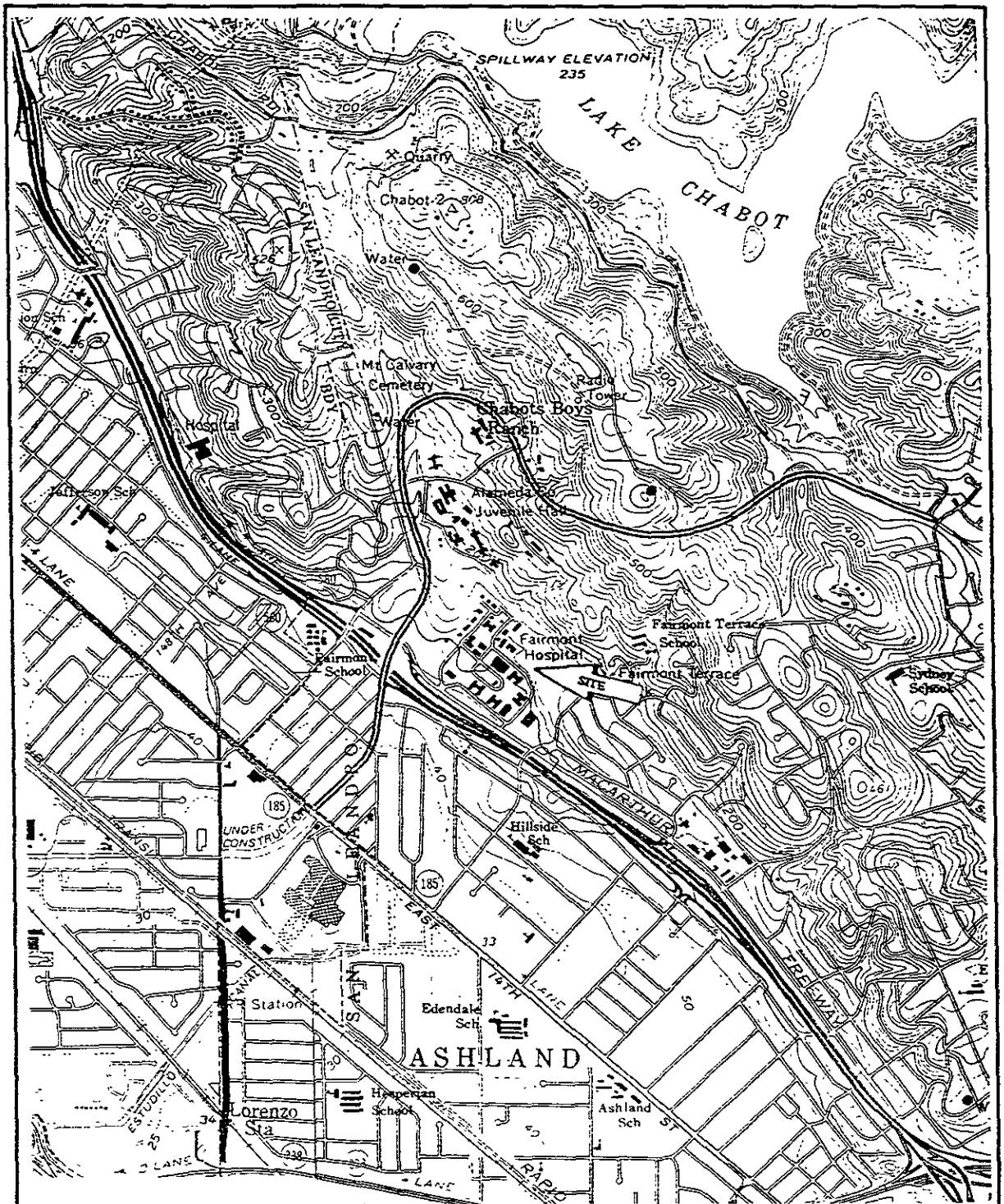
- The data reported and the findings, observations, conclusions, and recommendations expressed in the report are limited by the Scope of Services, including the extent of environmental sampling and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.

- Because of the limitations stated above, the findings, observations, conclusions and recommendations expressed by Versar in this report are limited to the information obtained and the surface and subsurface investigation undertaken and should not be considered an opinion concerning the compliance of any past or current owner or operator of the Site with any federal, state, or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, conclusions, and recommendations expressed in this report. Further, such data, findings, observations, conclusions, and recommendations are based solely upon Site conditions in existence at the time of investigation.

- This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

Versar INC.

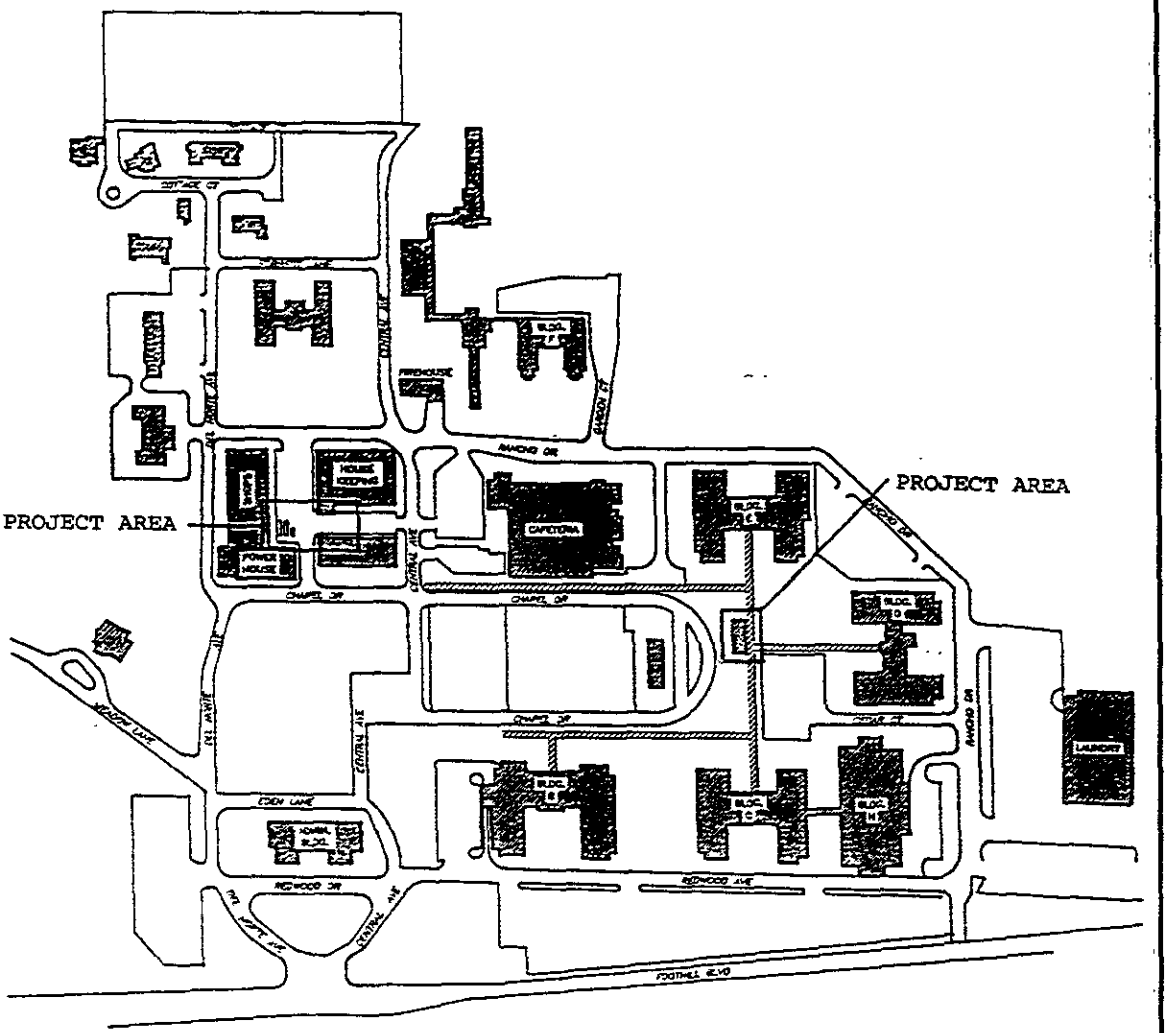
FIGURES



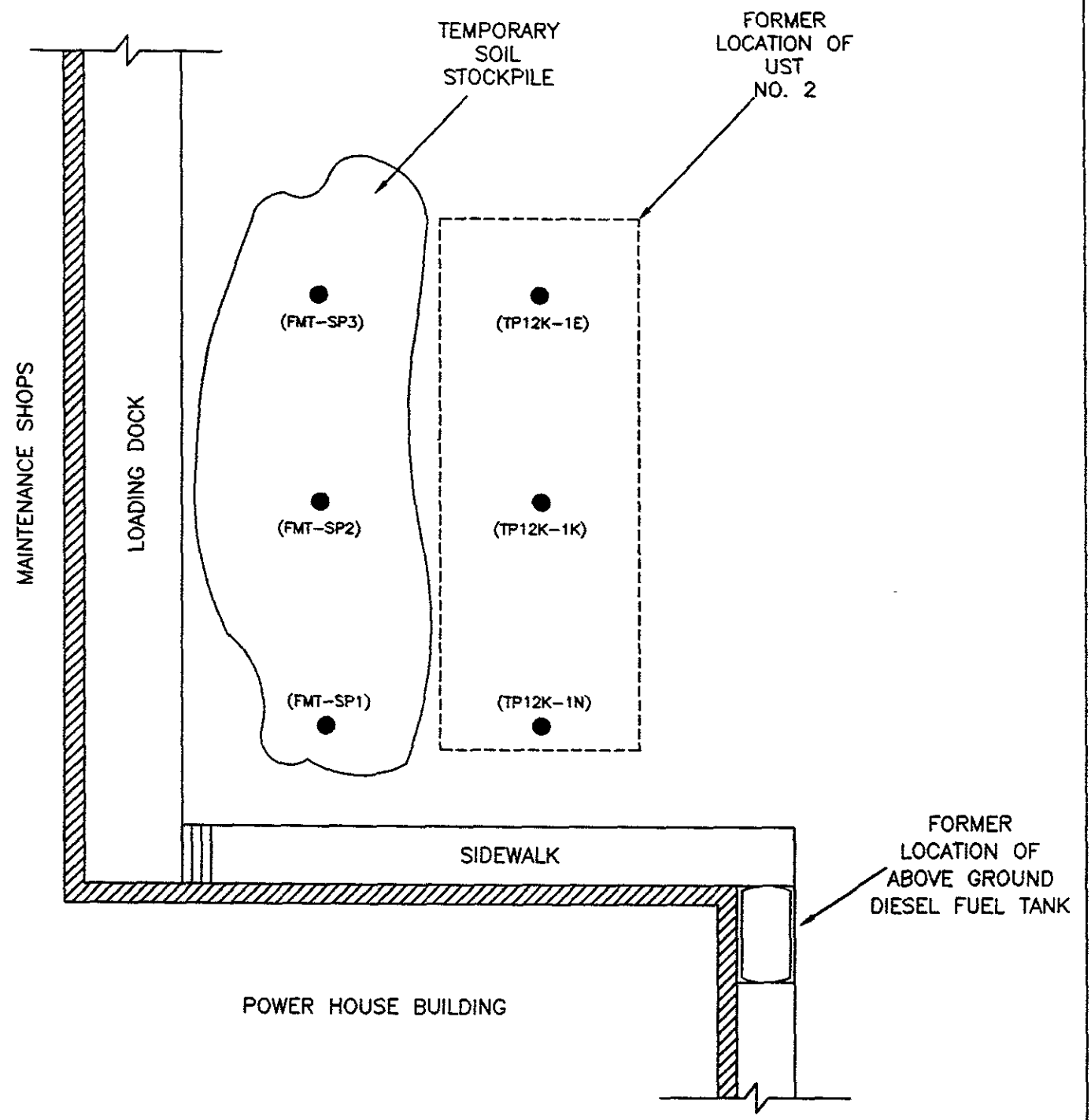
Note: base map from USGS Hayward and San Leandro, CA quadrangles,7.5 minute series.

Versar INC. ENVIRONMENTAL RISK MANAGEMENT	**SITE LOCATION MAP** Fairmont Hospital 15400 Foothill Blvd. San Leandro, California	Versar Project: 2241-025 May 1995	N	**FIGURE** 1 Not To Scale

F:\graphic\2241-16p.drw



Versar INC.	**Project Areas Map** Fairmont Hospital 15400 Foothill Blvd. San Leandro, California	Versar Project: 2241-025 May 1995	North	FIGURE 2 No Scale



LEGEND

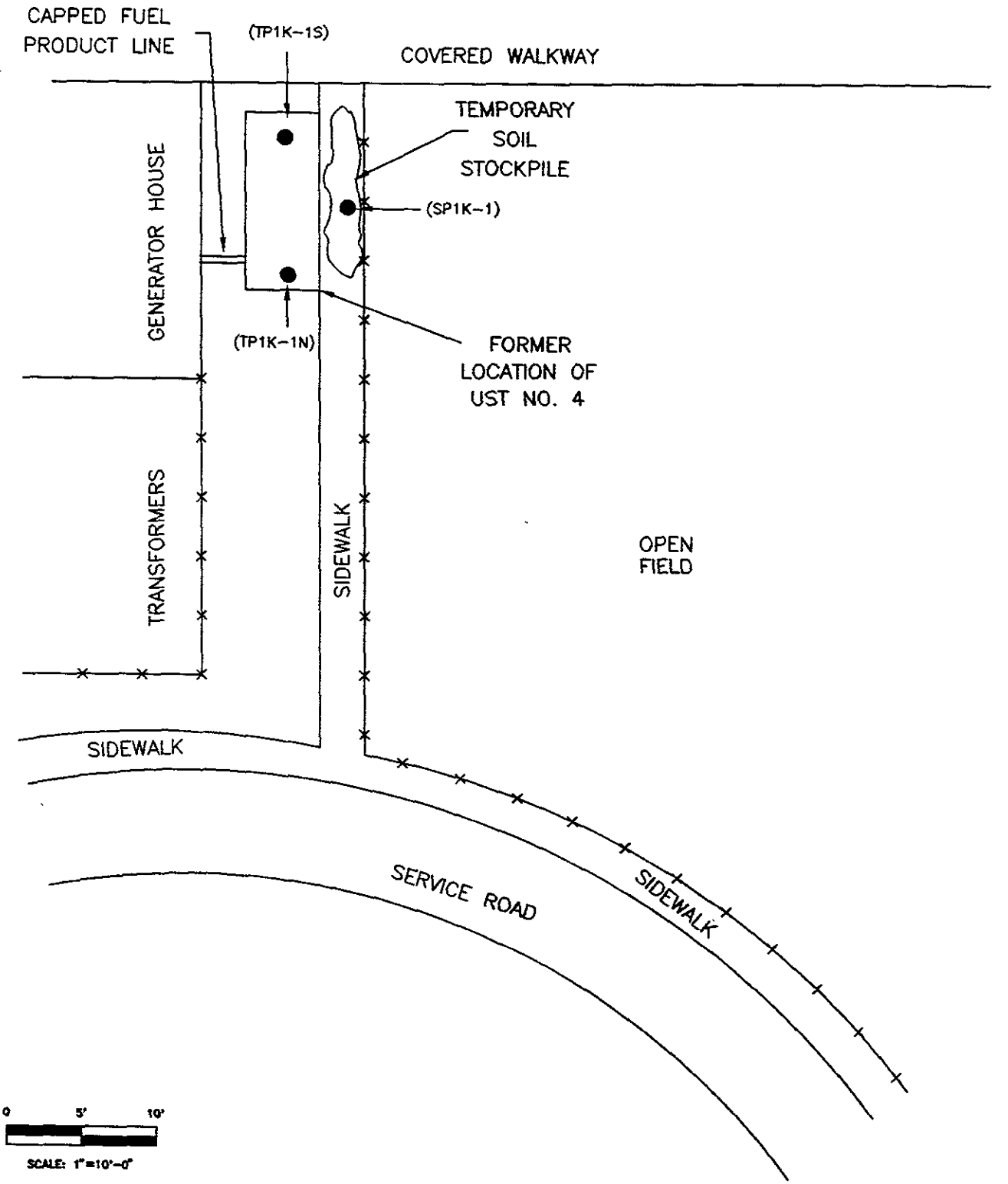
● (TP12K-1N) SOIL SAMPLE LOCATIONS AND DESIGNATIONS

FIGURE: 3

SITE PLAN AND
SOIL SAMPLE LOCATION MAP
FORMER UST NO. 2

Versar INC.

FILE DRAWING\0061-95 REV. 06/13/95 RDH



LEGEND

(TP1K-1N) SOIL SAMPLE LOCATIONS AND DESIGNATIONS

FENCE

FIGURE: 4

SITE PLAN AND SOIL SAMPLE LOCATION MAP FORMER UST NO. 4

Versar INC.

D:\DRAWING\DWG\0692-95 REV. 10/18/95 M.D.H.

Versar INC.

APPENDIX A
PERMITS AND CERTIFICATES

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY SITE CLOSURE ☐ 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME: FAIRMONT HOSPITAL
NAME OF OPERATOR: COUNTY OF ALAMEDA GENERAL SERVICES AGENCY
ADDRESS: 15400 FOOTHILL BLVD
NEAREST CROSS STREET: FAIRMONT DRIVE
PARCEL # (OPTIONAL):
CITY NAME: SAN LEANDRO
STATE: CA
ZIP CODE: 94578
SITE PHONE # WITH AREA CODE: (510) 667-7775

✓ BOX TO INDICATE: ☐ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL AGENCY DISTRICTS * ☒ COUNTY-AGENCY * ☐ STATE-AGENCY * ☐ FEDERAL-AGENCY *

* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST: SUBODH CHOWDHRY

TYPE OF BUSINESS: ☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☒ 5 OTHER
☐ ✓ IF INDIAN RESERVATION OR TRUST LANDS
OF TANKS AT SITE: 2 OLD, 2 NEW
E. P. A. I.D. # (optional): CAD 981429533

EMERGENCY CONTACT PERSON (PRIMARY)

DAYS: NAME (LAST, FIRST): HANSPARD, LEE — PHONE # WITH AREA CODE:
NIGHTS: NAME (LAST, FIRST): BOILER ROOM ATTENDANT — PHONE # WITH AREA CODE: (510) 437-4389

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST): CHOWDHRY, SUBODH — PHONE # WITH AREA CODE: (510) 208-9533
NIGHTS: NAME (LAST, FIRST): CHOWDHRY, SUBODH — PHONE # WITH AREA CODE: (510) 745-8357

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME: COUNTY OF ALAMEDA - GSA
CARE OF ADDRESS INFORMATION: ENGINEERING AND ENVIRONMENTAL MGT.
MAILING OR STREET ADDRESS: 1401 LAKESIDE DRIVE
✓ box to indicate: ☐ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☒ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME: OAKLAND
STATE: CA
ZIP CODE: 94612
PHONE # WITH AREA CODE: (510) 208-9525

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER: SAME AS II. ABOVE
CARE OF ADDRESS INFORMATION:
MAILING OR STREET ADDRESS:
✓ box to indicate: ☐ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME:
STATE:
ZIP CODE:
PHONE # WITH AREA CODE:

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44- 000324

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) – IDENTIFY THE METHOD(S) USED

✓ box to indicate: ☒ 1 SELF-INSURED ☐ 2 GUARANTEE ☐ 3 INSURANCE ☐ 4 SURETY BOND ☐ 5 LETTER OF CREDIT ☐ 6 EXEMPTION ☐ 99 OTHER

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. ☐ II. ☒ III. ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

OWNER'S NAME (PRINTED & SIGNED):
OWNER'S TITLE:
DATE - MONTH/DAY/YEAR:

LOCAL AGENCY USE ONLY

COUNTY #:
JURISDICTION #:
FACILITY #:
LOCATION CODE - OPTIONAL:
CENSUS TRACT # - OPTIONAL:
SUPVISOR - DISTRICT CODE - OPTIONAL:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY TANK CLOSURE ☐ 7 PERMANENTLY CLOSED ON SITE ☒ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Fairmont Hospital

I. TANK DESCRIPTION
COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. # 5511-4
B. MANUFACTURED BY: UNKNOWN
C. DATE INSTALLED (MO/DAY/YEAR) 1968
D. TANK CAPACITY IN GALLONS: 1000

II. TANK CONTENTS
IF A-1 IS MARKED, COMPLETE ITEM C.

A. ☒ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☐ 4 ☐ 80 EMPTY ☐ 95 UNKNOWN
B. ☒ 1 PRODUCT ☐ 2 WASTE
C. ☐ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 2 LEADED ☒ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED: C. A. S. #:

III. TANK CONSTRUCTION
MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM: ☐ 1 DOUBLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 95 UNKNOWN ☒ 2 SINGLE WALL ☐ 4 SECONDARY CONTAINMENT (VAULTED TANK) ☐ 99 OTHER
B. TANK MATERIAL (Primary Tank): ☒ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☐ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☐ 95 UNKNOWN ☐ 99 OTHER
C. INTERIOR LINING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☒ 6 UNLINED ☐ 95 UNKNOWN ☐ 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___
D. CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☐ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☒ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER
E. SPILL AND OVERFILL: SPILL CONTAINMENT INSTALLED (YEAR) N/A OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) N/A

IV. PIPING INFORMATION
CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: (A U) 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 99 OTHER
B. CONSTRUCTION: (A U) 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION: (A U) 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W COATING A U 8 100% METHANOL COMPATIBLE W/FRP A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 99 OTHER
D. LEAK DETECTION: ☐ 1 AUTOMATIC LINE LEAK DETECTOR ☒ 2 LINE TIGHTNESS TESTING ☐ 3 INTERSTITIAL MONITORING ☐ 99 OTHER

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☐ 2 INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☐ 4 AUTOMATIC TANK GAUGING ☐ 5 GROUND WATER MONITORING ☒ 6 TANK TESTING ☐ 7 INTERSTITIAL MONITORING ☐ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR): 12/94
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING: 350 GALLONS
3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) | DATE

LOCAL AGENCY USE ONLY
THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.# | COUNTY # | JURISDICTION # | FACILITY # | TANK #

PERMIT NUMBER | PERMIT APPROVED BY/DATE | PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY TANK CLOSURE ☐ 7 PERMANENTLY CLOSED ON SITE ☒ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Fairmont Hospital

I. TANK DESCRIPTION
COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. # 5511-2
B. MANUFACTURED BY: Unknown
C. DATE INSTALLED (MO/DAY/YEAR) 1952
D. TANK CAPACITY IN GALLONS: 12,000

II. TANK CONTENTS
IF A-1 IS MARKED, COMPLETE ITEM C

A. ☐ 1 MOTOR VEHICLE FUEL ☐ 4 OIL ☒ 2 PETROLEUM ☐ 90 EMPTY ☐ 3 CHEMICAL PRODUCT ☐ 95 UNKNOWN
B. ☒ 1 PRODUCT ☐ 2 WASTE
C. ☐ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 2 LEADED ☐ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 6 AVIATION GAS ☐ 7 METHANOL ☒ 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED #5 Domestic Oil C.A.S. #:

III. TANK CONSTRUCTION
MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM: ☐ 1 DOUBLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 95 UNKNOWN ☒ 2 SINGLE WALL ☐ 4 SECONDARY CONTAINMENT (VAULTED TANK) ☐ 99 OTHER

B. TANK MATERIAL (Primary Tank): ☒ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☐ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☐ 95 UNKNOWN ☐ 99 OTHER

C. INTERIOR LINING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☒ 8 UNLINED ☐ 95 UNKNOWN ☐ 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___

D. CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☐ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☒ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

E. SPILL AND OVERFILL: SPILL CONTAINMENT INSTALLED (YEAR) N/A OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) N/A

IV. PIPING INFORMATION
CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: (A U) 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 99 OTHER
B. CONSTRUCTION: (A U) 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION: (A U) 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 99 OTHER
D. LEAK DETECTION: ☐ 1 AUTOMATIC LINE LEAK DETECTOR ☐ 2 LINE TIGHTNESS TESTING ☐ 3 INTERSTITIAL MONITORING ☐ 99 OTHER

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☐ 2 INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☐ 4 AUTOMATIC TANK GAUGING ☐ 5 GROUND WATER MONITORING ☐ 6 TANK TESTING ☐ 7 INTERSTITIAL MONITORING ☒ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) 12/94
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING ___ GALLONS
3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☒

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) | DATE

LOCAL AGENCY USE ONLY
THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.# | COUNTY # | JURISDICTION # | FACILITY # | TANK #

PERMIT NUMBER | PERMIT APPROVED BY/DATE | PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

FORM B (12-91)

FOR0034B-R6

State of California Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981412953 | Manifest Document No.: 95226026 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: C/O FISCH ENVIRONMENTAL
FAIRMONT HOSPITAL, BUILDING MAINTENANCE DEPARTMENT
1401 LAKESIDE DRIVE, OAKLAND, CA. 94612

4. Generator's Phone: (510 208-9533

A. State Manifest Document Number: 95226026

B. State Generator's ID: HAH036021656

5. Transporter 1 Company Name: UNIVERSAL ENVIRONMENTAL
6. US EPA ID Number: CAD000061275
C. State Transporter's ID: 602913
D. Transporter's Phone: 707-747-6699

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: FUEL OIL PROCESSORS
4150 N. SUTTLE RD.
PORTLAND, OREGON 97217
10. US EPA ID Number: ORD980975692
G. State Facility's ID: ORD980975692
H. Facility's Phone: 503-286-8352

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Numbers
a. WASTE PETROLEUM OIL (COMBUSTIBLE LIQUID, UN1270 III	001	TT	2500	G	State: 221
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
~ FUEL OIL PROX 90% 2 PPM +
WATER PROX 10% PCB
FLASH POINT 150 DEG. F+

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

15. Special Handling Instructions and Additional Information
APPROPRIATE PROTECTIVE CLOTHING
"EMERGENCY CONTACT" (209) 667-6692
SEE E.R.G. 27

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

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

Printed/Typed Name: David Fisch | Signature | Month 05 | Day 11 | Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

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

19. Discrepancy Indication Space

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

GENERATOR — TRANSPORTER — FACILITY

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

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (9/94)
EPA 8700—22

White: FACILITY SENDS THIS COPY TO DTSC WITHIN 30 DAYS

[redacted]ate of California—Environmental Protection Agency
[redacted]rm Approved OMB No. 2050–0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.: CAD981429533 / 02043	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address: Alameda County GSA/Bmd Bldg 551, 1401 Lakeside Dr. Oakland CA 94612		A. State Manifest Document Number: 92202043
4. Generator's Phone: (510) 2??-9520		B. State Generator's ID
5. Transporter 1 Company Name: Erickson Inc	6. US EPA ID Number: CAD009466392	C. State Transporter's ID: 616587
		D. Transporter's Phone: (510) 235-1393
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Erickson,Inc. 255 Parr Blvd. Richmond, Ca. 94801	10. US EPA ID Number: CAD009466392	G. State Facility's ID
		H. Facility's Phone: (510) 235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.	1	TP	1500	P	State: 512; EPA/Other: NONE
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above: Qty. 1 Empty Storage Tank(s) # ... Tank(s) Have Been Inerted With 15 lbs. Dry Ice Per 1000 Gallon Capacity.

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

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.C.S.T.'s 24 Hr. Contact Name Dave Erick & Phone (209) 517-4563

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the 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 federal, state and international laws.

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

Printed/Typed Name	Signature	Month	Day	Year
[illegible] (Agent to County)	[signature] (Agent)	05	25	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
David Burce	[signature]	05	25	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR / TRANSPORTER / FACILITY

[redacted] CASE [redacted] EMERGENCY [redacted] SPILL [redacted] THE [redacted] ATION [redacted] RESP [redacted] CEN [redacted] 1-80 [redacted] 880 [redacted] THIN [redacted] IFOR [redacted] CAL [redacted] 00-8 [redacted] 50

DO NOT WRITE BELOW THIS LINE.

[redacted]TSC 8022A (12/91)
[redacted]PA 8700—22

Yellow: GENERATOR RETAINS

...e of California—Environmental Protection Agency
...n Approved OMB No. 2050-0039 (Expires 9-30-94)
...ase print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981429533 — Manifest Document No. 92202043 — 2. Page 1 of 1

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

GENERATOR

3. Generator's Name and Mailing Address
Alameda County GSA/Bmd Bldg Svc
1401 Lakeside Dr.
Oakland CA 94612
4. Generator's Phone (510) 208-9520

A. State Manifest Document Number: 92202043
B. State Generator's ID:
C. State Transporter's ID: 616587
D. Transporter's Phone: (510) 235-1393
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (510) 235-1393

5. Transporter 1 Company Name: Erickson Inc — 6. US EPA ID Number: CAD009461639
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.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.	1-2	T P	1500	P	State 512 EPA/Other NRC
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Empty Storage Tank(s) # 2 Tank(s) have been inerted with 1 lbs Dry Ice Per 1000 Gallon Capacity.

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

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.C.S.T.'s 24 Hr. Contact Name Dave Fecl & Phone (209) 547-4563

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the 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 federal, state and international laws.

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
Terence Kim (Agent to County)	(Agent)	05	25	95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
David Bunce		05	25	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (12/91)
EPA 8700—22

Yellow: GENERATOR RETAINS

VASCO ROAD SANITARY LANDFILL No: 691234

A DIVISION OF BFI BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD
LIVERMORE, CA 94550
(510) 447-0491

Date : 6-13-95 Time In: Time Out:
Ticket # : CNG #: LNG #: 6.5
Customer : DEN BESTE INK.
Vehicle # : 111 Lic Plate:

Manifest # : 715228 PO #: 2091 Transporter:
Source Cd : Generator :
Consent : Operator:
Capacity : Scale In # : Scale Out #:
Gross Wt : 50020 Tare Wt: 30520 Net Wt: 19500 lbs

Descr	Actual	Bill Qty	$/Unit	Extended
	19,500 lb			
	14.6250 yds			

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

All children must remain in vehicles. Absolutely no salvaging allowed.

Niños deben de permanecer en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

THANK YOU FOR YOUR BUSINESS!!!
HAVE A GREAT DAY!!!

DRIVER

DRIVER

DENBESTE TRUCKING

Alameda County Fire Department
Fire Prevention Bureau
22341 Redwood Road • Castro Valley, CA 94546 • (510) 670-5853 • Fax (510) 582-4347

Application

[ ] Fire Permit [ ] Plan Review [V] Inspection Request [ ] _____

DATE 5/16/95 APPLICATION NO. 95-1116

PROJECT INFORMATION

PROJECT ADDRESS 15400 Foothill Blvd MILE MARKER OR CROSS STREET Fairmont Dr

CITY San Leandro ZIP 94577 JOB PHONE 667.7973 PAGER NO. _____

DESCRIPTION OF WORK/ACTIVITY UST Removals

PARCEL/TRACT MAP # _____ PLANNING DEPT # _____ BID # _____ APN # _____

BUSINESS/PROPERTY OWNER INFORMATION

NAME Co. of Alameda / EMD PHONE # (H) 2089530 (Pager) _____

ADDRESS 1401 Lakeside Dr CITY Oakland STATE CA ZIP 94612

CONTRACTOR INFORMATION

NAME Fisch Env. Construction PHONE # (H) 209 367-4563 (Pager) _____

ADDRESS 1040 W. Kettleman Ln. #18-B CITY Lodi STATE CA ZIP _____

CONTRACTOR LICENSE TYPE A Hazardous LICENSE # 663865

APPLICANT

NAME Versar Inc. PHONE # (H) 510 814-5100 (Pager) _____

ADDRESS 1255 Harbor Bay PKWY #100 CITY Alameda STATE CA ZIP 94502

FEES PA 120.00 CK# 3025

Fees are due and payable by check or money order, made out to Alameda County Fire Department. Plans and permits shall not be approved until fees are paid. Additional fees may occur from missed inspections and required re-inspections. All fees must be paid prior to release of utilities, permit finals, or fire clearances.

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

II, III

Site ID # _____ Site Name Fairmont Hosp Today's Date 5/25/95

Site Address 15400 Foothill Blvd.

City S. Leandro Zip 94578 Phone _____

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

Tom McKinney x 29520

Inspection Categories:

____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Hazardous Materials Business Plan, Acutely Hazardous Materials
__✓__ III. Underground Storage Tanks

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

Comments:
On-site to observe removal of remaining 12,000 gallon fuel oil UST near loading docks, and 1000 gallon diesel located near the "generator" room located between buildings B and C.

Gary Carlson (ACFD) was on-site to ensure tank inertness of USTs: Terry Kinn (VERSAR), Rod Freitag and Tom McKinney (CSA), and Dave Fisch (Fisch Env.) were on-site during closure.

(1) 12000 – tank removed intact. Bare steel construction was fairly severe corrosion at the supply (west) end. Heavy metal loss noted, but no holes observed. Samples (3) collected from each end and center from native-derived material (although it appears not to be undisturbed)

(2) 1000 – tank removed intact. Tar-coated (but not wrapped). Tank appears sound. Although water was present in pit, it appears to be infiltration from irrigation, etc., from upslope of the pit. Hence, no H_2O sample collected. Because this tank was set upon a holddown pad, samples were collected from native clayey materials encountered off either end.

* NOTE: PCBs to be sought in 12,000 gal UST samples in addition to TPH-D and BTEX.

II, III

Contact Terry Kinn

Title VERSAR (H&S) mgr.

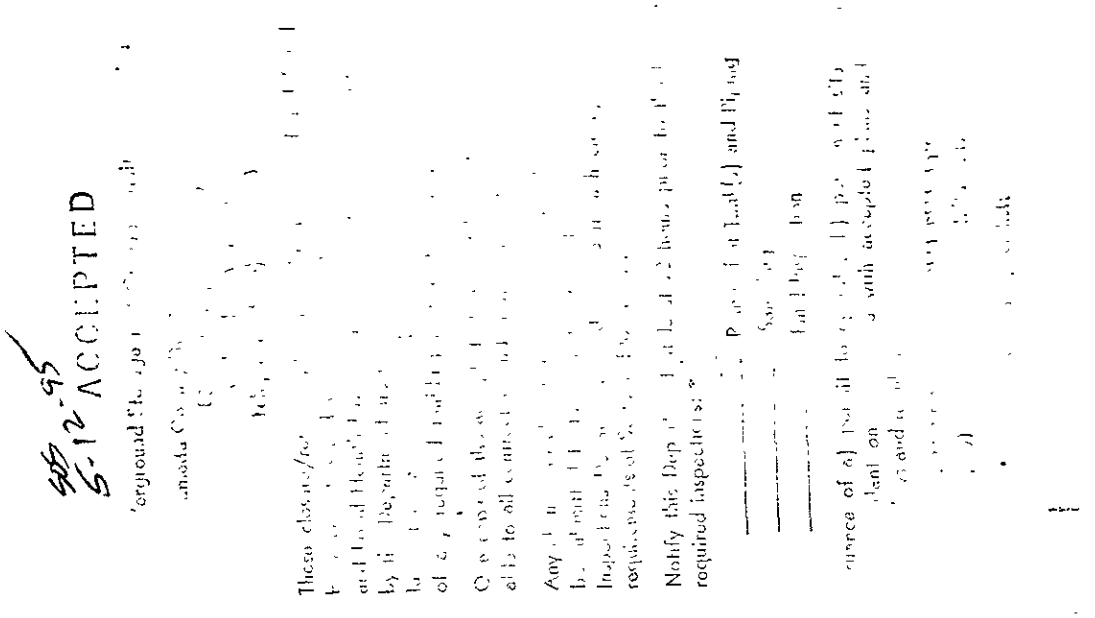
Signature _____

Inspector S. SEERY

Signature _____

Scott Seery

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320



SB 5-12-95 ACCEPTED

UNDERGROUND TANK CLOSURE PLAN

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

1. Business Name Fairmont Hospital

   Business Owner Alameda County GSA/BMD

2. Site Address 15400 Fairmont Avenue

   City San Leandro Zip 94577 Phone N/A

3. Mailing Address 1401 Lakeside Drive

   City Oakland Zip 94612 Phone 510-208-9521

4. Land Owner County of Alameda

   Address Same as above City, State _____ Zip _____

5. Generator name under which tank will be manifested

   County of Alameda- GSA/BMD

   EPA I.D. No. under which tank will be manifested CAD 981429533

6. Contractor Fisch Environmental Construction Services

Address 1040 W. Kettleman Ln. Suite 18-156 Phone (209) 367-4563

City Lodi ID# 483865

License Type A-Haz

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board, indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant Versar Inc

Address 1255 Harbor Bay PKWY, Ste., 100 Phone 510-814-5900

City Alameda

8. Contact Person for Investigation

Name Terrance Kipp Title Project Geologist

Phone 814-5924

9. Number of tanks being closed under this plan 2

Length of piping being removed under this plan Less than 25 feet

Total number of tanks at facility 4

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name Erickson's EPA I.D. No. CAD009 466 392

Hauler License No. 0019 License Exp. Date 7/31/95

Address 255 Parc Blvd.

City Richmond State CA Zip 94801

b) Product/Residual Sludge/Rinsate Disposal Site

Name Erickson EPA I.D. No. CAD 128 582 725

Address 255 Parc Blvd

City Richmond State CA Zip 94801

rev 3/92

c) Tank and Piping Transporter

Name ERICKSON EPA I.D. No. CAD009466392

Hauler License No. 0019 License Exp. Date 7/31/95

Address 255 Parr Blvd

City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name ERICKSON EPA I.D. No. CAD128581725

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Terrence Kinn

Company Versar Inc.

Address 1255 Harbor Bay Pkwy Ste., 100

City Alameda State CA Zip 94502 Phone 814-5924

12. Laboratory

Name McCampbell Analytical

Address 110 2nd Avenue South, #D7

City Pacheco, State CA Zip 94553

State Certification No. 1644

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

If yes, describe.

14. Describe methods to be used for rendering tank inert

Displace internal vapors by dry ice-- not less than 20lbs of ice per 1,000 gallons of tank capacity

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

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

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
12,000 gal.	#5 Fuel oil	Soil	Native soils less than two feet below tank pit base
1000 gal.	diesel fuel	"	"

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

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	Sampling Plan
Less than 20 cubic yards	~~Three beneath UST, one from stockpile, and one from beneath product piping.~~ one discrete sample for ea. 20 yds^3 for on-site reuse. Disposal/aeration sample frequencies may vary.

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

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

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

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
Diesel		8015(m)/3550	1.0 mg/kg
BTEX		8020	0.005 mg/kg

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

18. ficate copy
operator

19. Submit ctions)

20. Enclose Deposit (See Instructions)

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

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

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

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

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

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

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

Signature of Contractor

Name (please type) Christina Fisch

Signature Christina Fisch

Date 5/3/95

Signature of Site Owner or Operator

Name (please type) Ron Freitag

Signature [signature]

Date 5/5/95

BURLINGTON ENVIRONMENTAL INC./RESOURCE RECOVERY CORP.

[redacted] 1011 Western Ave., Suite 700 • Seattle, WA 98104
[redacted] 06) 223-0500 Resource Recovery (2[redacted]

WR#35717

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. WAD-092-300-250	Manifest Document No. 95026	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
BEI WASHOUGAL PLANT
625 S 32ND ST PO BOX 229 WASHOUGAL, WA 98671-0000
Generator's Phone (360) 835-8594

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

5. Transporter 1 Company Name: BURLINGTON ENVIRONMENTAL, INC
6. US EPA ID Number: WAR-000-001-743
C. State Transporter's ID
D. Transporter's Phone 206-383-3044

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
BURLINGTON ENVIRONMENTAL - GIW
734 S LUCILE STREET
SEATTLE, WA 98108
10. US EPA ID Number: WAD-000-812-909
G. State Facility's ID
H. Facility's Phone 206-762-3362

	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,(OIL),(PROFILE# 93501-00)	16	DM	800	G	
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
206-80-7857
GENERATOR'S EMERGENCY TELEPHONE NUMBER: ~~360-835-8594~~

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 governmental 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 FOR BEI Patrick Hayes — Signature — Month 12 Day 7 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Ray Hollenbeck — Signature — Month 12 Day 19 Year 95

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.
FOR BEI
Printed/Typed Name Cathy Weeden — Signature — Month 12 Day 20 Year 95

T/S/D/P/COPY

PHILIP ENVIRONMENTAL
CHEMICAL GROUP
WESTERN REGION

Recycling Solutions for Every Environment

Certificate of Treatment, Recycling and/or Disposal

This is to certify that the following waste material was received, managed and treated in compliance with all applicable federal and Washington state laws and regulations.

Received at the Georgetown Facility, 734 S. Lucile St., Seattle, Washington 98108, (206) 762-3362 ID# WAD-000-812-909:

Generator: Philip Environmental, Inc. -- Washougal Facility
Manifest #: 95026 **Receipt #:** 35717 **Date Received:** 7/20/95

Manifest Page	Manifest Line	Material Description	Treatment and/or Disposal Method	Shipped to: Treat/Disp.	EEI BOL/Manifest #	Date Shipped Treated
1	A	Non-RCRA Hazardous Waste, Liquid	Fuels	Ash Grove	Z5138	10/31/95

Prepared By: Brenda L. Kirwan
Brenda L. Kirwan – Hazardous Waste Training Specialist

5501 Airport Way South • Seattle, Washington 98108
206/762-3362 • FAX: 206/762-2677

PHILIP ENVIRONMENTAL
CHEMICAL GROUP
WESTERN REGION

Recycling Solutions for Every Environment

Certificate of Treatment, Recycling and/or Disposal

This is to certify that the following material(s) was/were received, and managed in compliance with all applicable Federal and Washington State Laws and Regulations, by Burlington Environmental Inc., 625 S. 32nd Street, Washougal, Wa., EPA ID# WAD 092300250

Generator: FAIRMONT HOSPITAL Bill of Lading 965847

Date Received: 6/7/95 BEI Receipt #: 60012

DM #	Profile #	Disposal Method	Disposal Facility	BEI Shipping Manifest #	Date Shipped to Disposal
001	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
002	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
003	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
004	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
005	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
006	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
007	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
008	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
009	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
010	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
011	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
012	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
013	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
014	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
015	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
016	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
017	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
018	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
019	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
020	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
021	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
022	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
023	93501	ATERNATIVE FUELS	BEI-GT	95025	7/17/95
TANK	93502	RECYCLE	SCHNITZER STEEL	60995	6/9/95

Prepared By:

Robert Gloyd
Plant Foreman - Washougal Facilty

Please reference the BEI Receipt # indicated above when requesting additional information

360/835-8594 • FAX: 360/835-8872 • Toll Free: 800/547-2436

Versar INC.

APPENDIX B
LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY FORMS

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

06/09/95

Dear Terry:

Enclosed are:

1). the results of **6** samples from your **# 2241.025; Fairmont Hospital** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Versar 5330 Primrose Drive, # 228 Fairoaks, CA 95628	Client Project ID: # 2241.025; Fairmont Hospital	Date Sampled: 05/25/95
		Date Received: 05/25/95
	Client Contact: Terry Kinn	Date Extracted: 05/25/95
	Client P.O:	Date Analyzed: 05/25/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

UST #2

UST #4

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
52847	TP12K-1W	S	---	ND	ND	ND	ND	108
52848	TP12K-1C	S	---	ND	ND	ND	ND	102
52849	TP12K-1E	S	---	ND	ND	ND	ND	109
52850	TP1K-1N	S	---	ND	ND	ND	ND	109
52851	TP1K-1S	S	---	ND	ND	ND	ND	102
52852	SP1K-1	S	---	ND	ND	ND	ND	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Versar 5330 Primrose Drive, # 228 Fairoaks, CA 95628	Client Project ID: # 2241.025; Fairmont Hospital	Date Sampled: 05/25/95
		Date Received: 05/25/95
	Client Contact: Terry Kinn	Date Extracted: 05/25/95
	Client P.O:	Date Analyzed: 05/25-05/26/95

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
52847	TP12K-1W	S	ND	102
52848	TP12K-1C	S	ND	102
52849	TP12K-1E	S	ND	99
52850	TP1K-1N	S	ND	101
52851	TP1K-1S	S	ND	95
52852	SP1K-1	S	43,a	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Versar 5330 Primrose Drive, # 228 Fairoaks, CA 95628	Client Project ID: # 2241.025; Fairmont Hospital	Date Sampled: 05/25/95
		Date Received: 05/25/95
	Client Contact: Terry Kinn	Date Extracted: 06/01/95
	Client P.O:	Date Analyzed: 06/01/95

Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) by Scanning IR Spectrometry*

EPA method 418.1 or 9073; Standard Methods 5520 C&F

Lab ID	Client ID	Matrix	TRPH+
52852	05/25/95	S	15
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	1.0 mg/L
		S	10 mg/kg

* water samples are reported in mg/L and soils in mg/kg

surrogate diluted out of range

+ At the laboratory's discretion, one positive sample may be run by direct injection chromatography with FID detection. The following comments pertain to this GC result: a) gasoline-range compounds (C6-C12) are present; b) diesel range compounds (C10-C23) are present; c) oil-range compounds (> C18) are present; d) other patterned solvent (?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules (lipids?)are the source of IR absorption; h) a lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Versar 5330 Primrose Drive, # 228 Fairoaks, CA 95628	Client Project ID: # 2241.025; Fairmont Hospital	Date Sampled: 05/25/95
		Date Received: 05/25/95
	Client Contact: Terry Kinn	Date Extracted: 06/02/95
	Client P.O:	Date Analyzed: 06/02/95

Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Lead*	% Recovery Surrogate
52852	SP1K-1	S	TTLC	19	98

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	3.0 mg/kg
	W	TTLC	0.005 mg/L
	---	STLC,TCLP	0.2 mg/L

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/24-05/25/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	2.095	2.188	2.03	103	108	4.3
Benzene	0.000	0.174	0.166	0.2	87	83	4.7
Toluene	0.000	0.182	0.176	0.2	91	88	3.4
Ethylbenzene	0.000	0.180	0.176	0.2	90	88	2.2
Xylenes	0.000	0.552	0.540	0.6	92	90	2.2
TPH (diesel)	0	335	345	300	112	115	3.2
TRPH (oil & grease)	0.0	22.6	22.5	20.8	109	108	0.4

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/26-05/27/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	2.003	1.984	2.03	99	98	1.0
Benzene	0.000	0.178	0.182	0.2	89	91	2.2
Toluene	0.000	0.174	0.184	0.2	87	92	5.6
Ethylbenzene	0.000	0.174	0.180	0.2	87	90	3.4
Xylenes	0.000	0.550	0.558	0.6	92	93	1.4
TPH (diesel)	0	318	313	300	106	104	1.5
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/31-06/01/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	1.692	1.707	2.03	83	84	0.9
Benzene	0.000	0.164	0.170	0.2	82	85	3.6
Toluene	0.000	0.182	0.180	0.2	91	90	1.1
Ethylbenzene	0.000	0.184	0.180	0.2	92	90	2.2
Xylenes	0.000	0.560	0.550	0.6	93	92	1.8
TPH (diesel)	0	308	303	300	103	101	1.8
TRPH (oil & grease)	0.0	20.0	18.9	20.8	96	91	5.7

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 06/02/95 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	4.5	4.7	5	91	93	2.6
Total Cadmium	0.0	4.6	4.6	5	91	93	1.5
Total Chromium	0.0	4.5	4.6	5	90	93	2.8
Total Nickel	0.0	4.6	4.8	5	93	95	2.8
Total Zinc	0.0	4.6	4.7	5	93	95	2.1
STLC Lead	0.00	4.35	4.49	5.0	87	90	3.2
Total Copper	0.00	4.54	4.60	5.0	91	92	1.3

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

CHROMALAB, INC.

Environmental Services (SDB)

May 26, 1995 *Submission #:* 9505345

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: V/FH *Project#:* 4211
Received: May 26, 1995

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.

Sample ID: **TP12K-1W-2847**
Spl#: 90059 *Matrix:* SOIL *Extracted:* May 26, 1995
Sampled: May 26, 1995 *Run#:* 6841 *Analyzed:* May 26, 1995
Method: EPA 3550/8080M

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.1	N.D.	--
AROCLOR 1221	N.D.	0.1	N.D.	--
AROCLOR 1232	N.D.	0.1	N.D.	--
AROCLOR 1242	N.D.	0.1	N.D.	--
AROCLOR 1248	N.D.	0.1	N.D.	--
AROCLOR 1254	N.D.	0.1	N.D.	--
AROCLOR 1260	N.D.	0.1	N.D.	105

Alex Tam
Chemist

Ali Kharrazi
Organic Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

May 26, 1995 *Submission #:* 9505345

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: V/FH *Project#:* 4211
Received: May 26, 1995

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.

Sample ID: **TP12K-1C-2848**
Spl#: 90060 *Matrix:* SOIL *Extracted:* May 26, 1995
Sampled: May 26, 1995 *Run#:* 6841 *Analyzed:* May 26, 1995
Method: EPA 3550/8080M

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.1	N.D.	--
AROCLOR 1221	N.D.	0.1	N.D.	--
AROCLOR 1232	N.D.	0.1	N.D.	--
AROCLOR 1242	N.D.	0.1	N.D.	--
AROCLOR 1248	N.D.	0.1	N.D.	--
AROCLOR 1254	N.D.	0.1	N.D.	--
AROCLOR 1260	N.D.	0.1	N.D.	105

Alex Tam
Chemist

Ali Kharrazi
Organic Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

May 26, 1995 *Submission #:* 9505345

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: V/FH *Project#:* 4211
Received: May 26, 1995

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.

Sample ID: **TP12K-1E-2849**
Spl#: 90061 *Matrix:* SOIL *Extracted:* May 26, 1995
Sampled: May 26, 1995 *Run#:* 6841 *Analyzed:* May 26, 1995
Method: EPA 3550/8080M

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.1	N.D.	--
AROCLOR 1221	N.D.	0.1	N.D.	--
AROCLOR 1232	N.D.	0.1	N.D.	--
AROCLOR 1242	N.D.	0.1	N.D.	--
AROCLOR 1248	N.D.	0.1	N.D.	--
AROCLOR 1254	N.D.	0.1	N.D.	--
AROCLOR 1260	N.D.	0.1	N.D.	105

Alex Tam
Chemist

Ali Kharrazi
Organic Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

2252

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
(510) 798-1620 PACHECO, CA 94553 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☒ RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY

REPORT TO: Fax & Mail to MAI BILL TO: MAI

COMPANY:

TELE: FAX #:

PROJECT NUMBER: 4211 PROJECT NAME: ~~4211~~ V/FH

PROJECT LOCATION: SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER
TP12K-1	W-2847			1			X						X
TP12K-1	C-2848			1									
TP12K-1	E-2849			1									

ANALYSIS REQUEST

BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	OTHER	COMMENTS
							X									

RUSH

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	5/25/95		08:18 Ken Soder 5/26/95
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:

REMARKS:
needs 0.50 mg/kg Detection Limit
due by the EPA 5 Day

Versar INC.

CHAIN OF CUSTODY RECORD

4211AVX2

PROJECT NO.	PROJECT NAME
2241-025	Fairmont Hospital

SAMPLERS: (Signature) Terrence Kim (Printed) Terrence Kim

FIELD SAMPLE NUMBER	DATE 1995	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH-D	BTEX	PCB's	TOTAL Pb	TRPH-418.1	REMARKS
TP12K-1W	5/25	13:20		X	12,000 gallon UST	1	X	X	X			52847
TP12K-1C	↓	↓		X	↓	1	X	X	X			52848
TP12K-1E				X		1	X	X	X			52849
TP1K-1W				X	1,000 gallon UST	1	X	X				52850
TP1K-1S		↓		X	↓	1	X	X				52851
TP1K-1	↓	14:30		X	↓	1	X	X		(X	X)	52852

5-31-95

ICE? ✓ COC CONDITION ✓ HEAD SPACE ABSENT ✓ PRESERVATIVE APPROPRIATE CONTAINERS ✓

VOAs [illegible]

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Terrence Kim	15.30 5/25/95	M. Wright AGRA			
(Printed) T. Kim		(Printed) M. WRIGHT	(Printed)		(Printed)
Relinquished by: (Signature) M. Wright	Date / Time 5:25 1455	Received for Laboratory by: (Signature)	Date / Time 5/25/95 1455	Remarks Rush analysis → 24 hr on all samples	
(Printed) M. WRIGHT		(Printed) Dave Keeler			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

06/09/95

Dear Terry:

Enclosed are:

1). the results of 4 samples from your **# 2241-025; Fairmont Hospital** project,

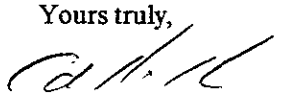
2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Versar 1255 Harbor Bay Pkwy, # 100 Alameda, CA 94501	Client Project ID: # 2241-025; Fairmont Hospital	Date Sampled: 05/18/95
		Date Received: 05/18/95
	Client Contact: Terry Kinn	Date Extracted: 05/18/95
	Client P.O:	Date Analyzed: 05/18/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

stock pile UST #2

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
52543	FMT-SP1	S	---	ND	ND	ND	ND	100
52544	FMT-SP2	S	---	ND	ND	ND	ND	103
52545	FMT-SP3	S	---	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Versar 1255 Harbor Bay Pkwy, # 100 Alameda, CA 94501	Client Project ID: # 2241-025; Fairmont Hospital	Date Sampled: 05/18/95
		Date Received: 05/18/95
	Client Contact: Terry Kinn	Date Extracted: 05/18/95
	Client P.O:	Date Analyzed: 05/18/95

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

stock pile UST #2

water UST #4

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
52543	FMT-SP1	S	ND	94
52544	FMT-SP2	S	ND	98
52545	FMT-SP3	S	ND	95
52548	TPK-1-W	W	1900,a	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/18-05/19/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	1.717	1.727	2.03	85	85	0.6
Benzene	0.000	0.162	0.162	0.2	81	81	0.0
Toluene	0.000	0.170	0.168	0.2	85	84	1.2
Ethylbenzene	0.000	0.170	0.170	0.2	85	85	0.0
Xylenes	0.000	0.530	0.532	0.6	88	89	0.4
TPH (diesel)	0	323	327	300	108	109	1.2
TRPH (oil & grease)	0.0	20.0	19.7	20.8	96	95	1.5

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/18-05/19/95 Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.0	101.0	101.3	100	101.0	101.3	0.3
Benzene	0	9.7	10.3	10	97.0	103.0	6.0
Toluene	0	10	10.6	10	100.0	106.0	5.8
Ethyl Benzene	0	10	10.7	10	100.0	107.0	6.8
Xylenes	0	30.9	33	30	103.0	110.0	6.6
TPH (diesel)	0	156	159	150	104	106	1.9
TRPH (oil & grease)	0	24400	24500	23700	103	103	0.4

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

McCAMPBELL ANALYTICAL
110 2ND AVE. SOUTH, #D7
PACHECO, CA 94553

ATTN: EDWARD HAMILTON
CLIENT PROJ. ID: 4140

REPORT DATE: 06/04/95

DATE(S) SAMPLED: 05/18/95

DATE RECEIVED: 05/19/95

AEN WORK ORDER: 9505276

PROJECT SUMMARY:

On May 19, 1995, this laboratory received 4 (3 soil and 1 bulk sample) sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

stockpile UST #2

McCAMPBELL ANALYTICAL

SAMPLE ID: FMT-SP1
AEN LAB NO: 9505276-01
AEN WORK ORDER: 9505276
CLIENT PROJ. ID: 4140

DATE SAMPLED: 05/18/95
DATE RECEIVED: 05/19/95
REPORT DATE: 06/04/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/22/95
Polychlorinated Biphenyls	EPA 8080				
Aroclor 1016	12674-11-2	ND	0.5	mg/kg	05/22/95
Aroclor 1221	11104-28-2	ND	0.5	mg/kg	05/22/95
Aroclor 1232	11141-16-5	ND	0.5	mg/kg	05/22/95
Aroclor 1242	53469-21-9	ND	0.5	mg/kg	05/22/95
Aroclor 1248	12672-29-6	ND	0.5	mg/kg	05/22/95
Aroclor 1254	11097-69-1	ND	0.5	mg/kg	05/22/95
Aroclor 1260	11096-82-5	ND	0.5	mg/kg	05/22/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: FMT-SP2
AEN LAB NO: 9505276-02
AEN WORK ORDER: 9505276
CLIENT PROJ. ID: 4140

DATE SAMPLED: 05/18/95
DATE RECEIVED: 05/19/95
REPORT DATE: 06/04/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/22/95
Polychlorinated Biphenyls	EPA 8080				
Aroclor 1016	12674-11-2	ND	0.5	mg/kg	05/22/95
Aroclor 1221	11104-28-2	ND	0.5	mg/kg	05/22/95
Aroclor 1232	11141-16-5	ND	0.5	mg/kg	05/22/95
Aroclor 1242	53469-21-9	ND	0.5	mg/kg	05/22/95
Aroclor 1248	12672-29-6	ND	0.5	mg/kg	05/22/95
Aroclor 1254	11097-69-1	ND	0.5	mg/kg	05/22/95
Aroclor 1260	11096-82-5	ND	0.5	mg/kg	05/22/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: FMT-SP3
AEN LAB NO: 9505276-03
AEN WORK ORDER: 9505276
CLIENT PROJ. ID: 4140

DATE SAMPLED: 05/18/95
DATE RECEIVED: 05/19/95
REPORT DATE: 06/04/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/22/95
Polychlorinated Biphenyls	**EPA 8080**				
Aroclor 1016	12674-11-2	ND	0.5	mg/kg	05/22/95
Aroclor 1221	11104-28-2	ND	0.5	mg/kg	05/22/95
Aroclor 1232	11141-16-5	ND	0.5	mg/kg	05/22/95
Aroclor 1242	53469-21-9	ND	0.5	mg/kg	05/22/95
Aroclor 1248	12672-29-6	ND	0.5	mg/kg	05/22/95
Aroclor 1254	11097-69-1	ND	0.5	mg/kg	05/22/95
Aroclor 1260	11096-82-5	ND	0.5	mg/kg	05/22/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: UST 12,000 GAL.
AEN LAB NO: 9505276-04
AEN WORK ORDER: 9505276
CLIENT PROJ. ID: 4140

DATE SAMPLED: 05/18/95
DATE RECEIVED: 05/19/95
REPORT DATE: 06/04/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/22/95
Polychlorinated Biphenyls	**EPA 8080**				
Aroclor 1016	12674-11-2	ND	0.5	mg/kg	05/22/95
Aroclor 1221	11104-28-2	ND	0.5	mg/kg	05/22/95
Aroclor 1232	11141-16-5	ND	0.5	mg/kg	05/22/95
Aroclor 1242	53469-21-9	ND	0.5	mg/kg	05/22/95
Aroclor 1248	12672-29-6	ND	0.5	mg/kg	05/22/95
Aroclor 1254	11097-69-1	ND	0.5	mg/kg	05/22/95
Aroclor 1260	11096-82-5	8 *	0.5	mg/kg	05/22/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

UST sludge? YES

UST # 2 sludge confirmation sample

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9505276

CLIENT PROJECT ID: 4140

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8080

AEN JOB NO: 9505276
DATE EXTRACTED: 05/22/95
INSTRUMENT: B
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 2,4,5,6-Tetrachloro-meta-xylene
05/22/95	FMT-SP1	01	110
05/22/95	FMT-SP2	02	112
05/22/95	FMT-SP3	03	107
QC Limits:			65-135

DATE EXTRACTED: 05/03/95
DATE ANALYZED: 05/03/95
SAMPLE SPIKED: 9505042-02
INSTRUMENT: B

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
A1260	133	88	<1	28-160	15

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

AEN

4-7,5-F

450527b

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: Ed Hamilton BILL TO: MAI

COMPANY: McCampbell

TELE: ABOVE FAX #:

PROJECT NUMBER: 4140 PROJECT NAME: V-FH

PROJECT LOCATION: SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER	BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - (PCBs Only)	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	OTHER	OTHER	OTHER	COMMENTS
FMT-SP1	01A	5-18-95	1240	1	BT								H								X											52543
FMT-SP2	02A	↓	1245	1	BT								C								X											44
FMT-SP3	03A		1250	1	BT								E								X											45
UST: 12,000 gal. ~~DUPLICATE~~	04A	↓	1110	1	VOA					X											X											46

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	5/19/95	14:23	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	5/19/95	14:40	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
	5/19/95	1440	

REMARKS: 5/22/95 Results needed today - lab cannot chage till 5/23/95 RB Client notified 5/22/95 able to get to client by end of Day RB

Versar

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
2241-025	Fairmont Hospital

SAMPLERS: (Signature) VPElarth (Printed) VPElarth

FIELD SAMPLE NUMBER	DATE 1995	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PARAMETERS: PCBs-8050 (Rush)	TPH-D	BTEX	PCB 24HR 5-25-91	INDUSTRIAL HYGIENE SAMPLE Y/N	REMARKS
FMT-SB1	5/18	12:40		X		1	X	X	X	52543		Soil
FMT-SB2	↓	12:45		X		1	↓	↓	↓	52544		↓
FMT-SB3	↓	12:50		X		1	↓	↓	↓	52545		
UST-12,000gal	5/18	11:10		X	L19	1	X	X		52546		Free Product (oil) *
pipe-12,000gal UST	↓	11:00		X	L19	1	X	X				↓
TPK-1-W	↓	11:40		X		1	/	X		52547		Water
					Rush 5-25-91 TK					52548		
					at Final Engagement Tag 5-18-91							unpreserved Jars D.K.

ICE/T GOOD CONDITION HEAD SPACE ABSENT ✓ PRESERVATIVE APPROPRIATE CONTAINERS ✓

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
VPElarth	5-18-95 14:11				
(Printed) VPElarth		(Printed) David Keeler MAI	(Printed)		(Printed)
Relinquished by: (Signature)	**Date / Time**	**Received for Laboratory by:** (Signature)	**Date / Time**	**Remarks**	
(Printed)		(Printed)		* Rush on product samples phone results to Terry Kinn 510-814-5924	

Distribution: Original Blue Canary Pink Goldenrod White