## UNDERGROUND STORAGE TANK CLOSURE REPORT CYPRESS "B" FREEWAY RECONSTRUCTION PROJECT

PHOENIX 800 AREA "T"

**OGISO REPORT** 

November 27, 1995

for

California Department of Transportation
District 04
1545 Willow Street
Oakland, CA 94607

#### DEPARTMENT OF TRANSPORTATION - DISTRICT 04

1545 Wiilllow Street Oakland, CA 94607 TEL: (510)-286-1359 FAX: (510)-286-1099

### LETTER OF TRANSMITTAL

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for Victor Salazar Resident Engineer ENCLOSED IS A COPY OF OGISO'S UST Closure Report for 800 Phoenix. Please review and notify ANDREW NORRIS at 286-1367.

Thankyou,

ANDREW NORKIS

CHLTRANS CYPRESS B

286-1367.



One Planet - One Destiny

#### **OGISO** Environmental

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December 5, 1995

Harry L. Young, P.E. Cypress 'B' Project Manager Kasler Corporation #1 Kaiser Place, Suite 415 Oakland, CA 94612

Subject:

Submittals for Cypress 'B' Contract 04-192214 - Underground Storage Tank

Closure Report for Phoenix 800, Area "T"

Dear Harry:

Attached is the Underground Storage Tank Closure Report for the Phoenix 800 site, Area "T". I have enclosed two copies for Kasler, along with copies for Caltrans.

Sincerely,

Hamid / Oshtaghe
Clement Okoh, Ph.D. for element Okoh
Principal Engineer

Principal Engineer

CO: jl Enclosure cypressb\kslrust.ltr

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PHOENIX 800 AREA "T"

**OGISO REPORT E-95130** 

#### PREPARED FOR:

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#### 1 INTRODUCTION

OGISO Environmental removed a total of four underground storage tanks (USTs) from the Phoenix 800 site located at 888 Cedar Street in Oakland as part of a remedial action plan for this site. Two USTs, one approximately 1,000 gallons containing diesel fuel and another approximately 2,600 gallons containing gasoline, were removed on October 20, 1995. Two additional USTs, approximately 250 gallons and 25 gallons each, containing solvent were also removed on October 23 and October 31, 1995, respectively, from this site. The diesel and gasoline underground storage tanks were previously known to be present at this site. However, the solvent tanks were accidentally encountered during the remediation processes at the site.

This tank closure report discusses the excavation activities, initial and confirmatory sampling, sample analysis, analytical results, remedial measures and disposal of the exhumed underground storage tanks.

#### 1.1 Site Background

The Phoenix 800 parcel is located at 888 Cedar Street within the western portion of the City of Oakland, about one mile west of the Oakland Outer Harbor. The site is located in a predominantly industrial neighborhood with nearby residential areas. Figure 1 shows the site location map. Residential homes are located to the south of Shorey Street and the east side of Pine Street between 9th and Shorey Streets, which is across the street from the Phoenix 800 site. The site consists of the southwestern portion of the parcel and is 43,965 ft<sup>2</sup> in area (Figure 2).

A large warehouse building formerly occupied this parcel, but was demolished by California Department of Transportation (Caltrans) in June and July of 1995, after the contents of the warehouse were removed.

The Cypress "B" freeway reconstruction is planned to include this site. This construction is related to the replacement of the Cypress structure that was damaged during the October 1989 Loma Prieta Earthquake. As part of the Cypress replacement project, a new partially depressed frontage road, exiting to the north of 7th Street will be constructed parallel to the new Cypress Freeway. Approximately one-fifth of the Phoenix 800 site in the southwest corner will be paved for the frontage road. Construction of a concrete retaining wall on the site and adjacent to the frontage road is required to limit groundwater infiltration into the depressed area of the rerouted 7th Street undercrossing and frontage road. The future use of the remaining portions of the Phoenix 800 parcel has not been decided at this time, but Caltrans will be investigating those portions of the parcel at a later date.

#### 1.2 Site Geology

The topography of the site is generally even and slopes gently to the west and south toward the San Francisco Bay and Oakland Inner Harbor. The site is 10 feet above mean sea level. The shallow soils in the vicinity of the site consist of an unknown thickness of fill materials and disturbed native soils. The fill materials are underlain by late Pleistocene (10,000 to 70,000 years old) and beach and dune sand deposits (Merritt Sand) consisting of loose, well sorted, fine to medium-grained sand with subordinate silt. Bay Mud is present to the west of the site. Bay Mud consists of Holocene (less than 10,000 years old) estuarine deposits comprised of unconsolidated, water-saturated, dark, plastic clay and silty clay rich in organic material. The depth to groundwater is approximately 7 to 10 feet below grade.

#### 2. TANK REMOVAL ACTIVITIES

According to the preliminary site assessments and investigations previously conducted on the Phoenix 800 site (Baseline Environmental Consulting, September 1990), two underground storage tanks (UST) containing diesel fuel and gasoline were identified at this site. The Initial Remedial Action Plan and Health and Safety Plan prepared for the site only addressed removal of these two tanks. However, upon commencement of excavation work, two additional tanks containing solvent were encountered. In response to this discovery, the Remedial Action Plan and the Health and Safety Plan were modified. A total of four underground storage tanks were removed from this site.

#### 2.1 Diesel Fuel Tank

The diesel UST permit application was filed with the Alameda County Department of Environmental Health (ACDEH) on June 28, 1995, for excavation of the diesel UST. The approved permit application forms are included in Appendix A.

The diesel fuel tank was a single-walled, steel tank approximately 1,000 gallons in capacity, located at the northwest corner of the Phoenix 800 site. Figure 3 depicts the approximate locations of the underground storage tanks exhumed from this site.

There is no record showing when the diesel tank was installed at this site. The tank was not in operation as of 1990 and was excavated, exhumed, inspected, loaded, and transported to a disposal/recycling facility on October 20, 1995. The diesel UST was buried approximately 4 to 5 feet below grade and was first exposed by removing the overlaying concrete pad and the top and surrounding soil. The excavated soil was stockpiled in an area east of the tank location (Figure 2). The quantity of soil excavated to uncover the tank was estimated at 150 cubic yards.

#### 2.1-1 Associated Piping

There were no fittings or pipings attached to the tank at the time it was uncovered.

#### 2.1-2 Tank Content

The liquid content of the tank was pumped into a vacuum truck by Erickson Environmental. The tank was rinsed with a pressurized stream of water and the rinsate was pumped concurrently into the vacuum truck, hence removing the diesel and waste residues in the tank. The tank liquid and rinsate were transported to an appropriate licensed facility for disposal. The manifest document for disposal of the tank content is included in Appendix B.

#### 2.1-3 Tank Purging

The tank was purged of any remaining vapors by placing 20 lb of dry ice in the tank one hour prior to removal. Following purging of the gaseous content of the tank, the lower explosive limit (LEL) inside the tank was measured at 0%. The oxygen level in the tank was measured at 1.5% and 4.2% at the bottom and top of the tank, respectively. All the tank openings and holes were securely covered with tape to maintain the elevated CO<sub>2</sub> content of the tank during removal and transportation to the disposal/recycling facility.

#### 2.1-4 Tank Inspection

The tank was lifted out of the excavation and was brought to the surface for physical inspection by the ACDEH inspector (Ms. Susan Hugo). The tank showed severe signs of corrosion with a hole located at the bottom. The ACDEH site report is included in Appendix A. Figure 4 shows the diesel fuel tank prior to loading.

#### 2.1-5 Tank Loading and Transportation

The tank was carefully lowered on to a flatbed truck, properly secured onto the truck bed with three straps, and then transported by Erickson Environmental to a licensed facility for disposal and/or recycling. A copy of the tank disposal manifest is included in Appendix B.

#### 2.1-6 Sampling and Analysis

There was no free product or sheen observed in the soil immediately surrounding the diesel tank. Diesel odor was noted in the tank excavation and the soil around the tank showed greenish discoloration indicating diesel contamination. One soil sample was collected from the fill end (north end) and one from the discharge end (south end) of the tank at approximately 8 feet below ground surface (bgs) immediately following tank removal.

A backhoe bucket was used to scoop the soil from underneath each end of the tank to the surface for sampling. Samples were collected by pushing 2 in. x 6 in. brass sleeves, capped at one end, directly into the soil. Sampling sleeves were capped at the other end immediately following collection of the soil samples. The remaining soil in the backhoe bucket was replaced in its original location. Samples DIS-N (north-end) and DIS-S (south-end) were analyzed for total petroleum hydrocarbons as diesel (TPH-D) via EPA Method 3350/8015M. Chain-of-custody and laboratory analysis results are included in Appendix C and summarized in Table 1. As shown in Table 1, soil analytical results indicate a maximum TPH-D level of 1,300 ppm at the north end of the diesel UST. No TPH-D was detected at the south end of the UST.

#### 2.1-7 Diesel UST Site Remediation

The diesel-affected soil in the UST excavation was visually identified from its greenish appearance and was excavated horizontally and vertically. Horizontally, the excavation continued in all four directions until soil discoloration was no longer observed or the boundary of Phoenix 800 area 'T' was reached. Vertically, the affected soil was excavated until clean soil was encountered or the groundwater was reached. Approximately 800 cubic yards of discolored (greenish) soil was excavated from around the diesel UST and stockpiled offsite on a concrete slab approximately 50 yards east of the diesel UST location.

#### 2.1-8 Confirmatory Sampling

Confirmatory samples 2T14-6-W and 2T13-6-0 were collected from the western wall and bottom of the diesel UST excavation, respectively (Table 1). The above sample I.D. numbers correspond with the confirmatory sampling nomenclature developed for remediation of contaminated grids in area 'T'. At the time of confirmatory sampling, the northern, southern, and eastern walls of the UST excavation had already been excavated to the perimeter of area 'T' during remediation of the same area for diesel and/or lead contamination and hence did not exist. As shown in Table 1, confirmatory sampling results indicate TPH-D values of 30 and 20 ppm, which are well below the preliminary remedial goal (PRG) of 100 ppm set for this site by the Department of Toxic Substances Control (DTSC). Chain-of-custody and laboratory analytical results are included in Appendix C.

#### 2.2 Gasoline Tank

The gasoline UST permit application was filed with the ACDEH on June 28, 1995, for excavation of the gasoline UST. The approved permit application forms are included in Appendix A.

The gasoline tank was a single-walled, steel tank approximately 2,600 gallons in capacity. The tank was located at the northwest corner of the Phoenix 800 site southeast of the diesel fuel tank. Figure 3 depicts the approximate relative locations of the USTs.

There is no record showing when this tank was installed at the site. The tank was not in operation as of 1990 and was exhumed, loaded, transported, and disposed of on October 20, 1995. The tank was buried approximately 4 to 5 feet below grade and was first exposed by removing the surrounding soil. The excavated soil was stockpiled separately in an area located approximately 50 yards east of the UST excavation. The quantity of soil excavated was

estimated to be 200 cubic yards.

#### 2.2-1 Associated Piping

There were no fittings or pipings attached to the tank at the time it was uncovered.

#### 2.2-2 Tank Content

Prior to excavation, the liquid content of the tank was pumped into a vacuum truck by Erickson Environmental. The tank was rinsed with a pressurized stream of water and the rinsate was pumped concurrently into the vacuum truck, hence removing the gasoline and waste residues in the tank. The tank liquid and rinsate were transported to an appropriate licensed facility for disposal. The manifest document for disposal of the tank content is included in Appendix B.

#### 2.2-3 Tank Purging

The tank was purged of any remaining vapors by placing 40 lb of dry ice in the tank one hour prior to removal. Following purging of the gaseous content of the tank, the lower explosive limit (LEL) inside the tank was measured at 2%. The oxygen level in the tank was measured at 0.6%. All the tank openings and holes were securely covered with tape to maintain the elevated CO<sub>2</sub> content of the tank during removal and transportation to the disposal/recycling facility.

#### 2.2-4 Tank Inspection

The tank was lifted out of the excavation and was brought to the surface for physical inspection by the ACDEH inspector (Ms. Susan Hugo). The tank showed moderate signs of corrosion with no apparent holes identified in the tank. The ACDEH site report is included in Appendix A. Figure 5 shows the gasoline fuel tank prior to loading.

#### 2.2-5 Tank Loading and Transportation

The tank was carefully lowered on to a flatbed truck, properly secured onto the truck bed with

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three straps, and then transported to a licensed facility for disposal and/or recycling by Erickson Environmental. A copy of the tank disposal manifest is included in Appendix B.

#### 2.2-6 Sampling and Analysis

There was no free product, sheen, or odor observed in the soil immediately surrounding the gasoline tank. One soil sample was collected from the fill end (east end) and one from the discharge end (west end) of the tank at approximately 8 feet below ground surface (bgs) immediately following tank removal.

A backhoe bucket was used to scoop the soil from underneath each end of the tank to the surface for sampling. Samples were collected by pushing 2 in. x 6 in. brass sleeves, capped at one end, directly into the soil. Sampling sleeves were capped at the other end immediately following collection of the soil samples. The remaining soil in the backhoe bucket was replaced in its original location. Samples GAS-E (east end) and GAS-W (west end) were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) via EPA Method 5030/8015M/8020. Chain-of-custody and laboratory analytical results are included in Appendix C and summarized in Table 2. As shown in Table 2, soil analytical results indicate all the suspected contaminants to be well below the designated PRG levels, hence requiring no UST site remediation.

#### 2.3 First Solvent UST

Two underground storage tanks, each containing unknown quantities of solvents, were accidentally encountered while performing remedial excavation on the Phoenix 800 site.

The first solvent tank, encountered on October 15, 1995, was made of steel and its capacity was estimated at 250 gallons. The tank was located south of the diesel and gasoline tanks. Figure 3

shows the approximate location of the tank. There was no record showing the date the tank was installed or put into operation. The nature of the content of the tank was also unknown at the time it was discovered.

#### 2.3-1 Tank Content Identification

At the time of discovery, the tank was struck by the bucket of an excavator puncturing a large hole in the tank and thereby releasing its liquid content into the surrounding soil. The remedial excavation work was immediately halted, the tank was covered with 2 - 3 feet of clean soil and the area was isolated and barricaded with caution tape. An emergency crew (Evergreen) was called to the site to conduct onsite hazardous material cataloguing tests and collect liquid and soil samples to help determine the chemical composition of the liquid in the tank. The crew members were equipped with level B personal protective equipment (PPE).

#### 2.3-2 Soil and Liquid Sampling

Two soil samples were collected from the affected soil in the immediate vicinity of the tank, and one sample was collected from the tank liquid content. The samples were tested for VOCs (EPA Method 8240/8260), Semi-VOCs (EPA Method 3550/8270), and CAM-17 metals (Method 3050A M/6010/7471). Sample collection techniques are detailed in Section 4. The soil and liquid test results identified the liquid as a diluted solvent. The chain-of-custody and analytical results are included in Appendix C and summarized in Tables 3A, 3B, and 3C. Photo ionization detector (PID) readings taken next to the tank indicated the presence of strong volatile organic compounds (VOCs).

#### 2.3-3 ACDEH Notification

This incident was reported to ACDEH, Ms. Susan Hugo, on Monday October 16, 1995. She advised that the UST Closure Application form be modified by changing the original number of tanks to be closed at Phoenix 800 from 2 to 3 tanks. A separate Form B was completed for this

tank and submitted to ACDEH. Appendix A includes a copy of the tank discovery notification letter and Form B submitted to ACDEH. A Hazardous Materials Release and Notification Report was also filed with the Alameda County Health Care Services Agency on October 19, 1995, and is included in Appendix A.

#### 2.3-4 Associated Piping

There were no fittings or pipings attached to the tank at the time it was uncovered.

#### 2.3-5 Tank Content

Most of the tank content spilled onto the surrounding soil when the tank was struck by the excavator backhoe.

#### 2.3-6 Tank Rinsing

The tank was rinsed with a pressurized stream of water and the rinsate was absorbed (15 gallons) by the surrounding soil, which was later excavated and stockpiled for sampling and characterization.

#### 2.3-7 Tank Purging

The tank was purged of any remaining vapors by placing 10 lb of dry ice in the tank one hour prior to removal. Following purging of the gaseous content of the tank, the LEL inside the tank was measured at 0%. Later all the tank openings and holes were securely covered with tape to maintain the elevated CO<sub>2</sub> content of the tank during removal and transportation to the disposal/recycling facility.

#### 2.3-8 Tank Inspection

The tank was lifted out of the excavation and was brought to the surface for physical inspection by ACDEH inspector Mr. Brian Oliva on October 23, 1995. Inspection of the solvent tank

showed that it had been ruptured due to the prior backhoe action. The ACDEH site report is included in Appendix A. Figure 6 shows the solvent tank prior to loading.

#### 2.3-9 Tank Loading and Transportation

The tank was loaded for transportation and disposal/recycling on October 23, 1995. The tank was wrapped in visqueen, loaded onto a flatbed truck, properly secured with straps, and transported by Erickson Environmental to a licensed facility for disposal/recycling. A copy of the tank disposal manifest is included in Appendix B.

#### 2.3-10 Personnel PPE

During tank rinsing, purging, inspection, and loading, the excavator operator was suited under level B PPE and the backup personnel were suited under level C PPE with half-face respirators.

#### 2.3-11 Confirmatory Sampling

The soil affected by content of the solvent tank was excavated and stockpiled for sampling and characterization in a concrete- surfaced area located approximately 60 yards east of the tank excavation. The quantity of soil excavated was estimated to be 200 to 300 cubic yards. Confirmatory samples were collected from the bottom of the tank excavation and analyzed for oil and grease (EPA Method 5520), VOCs (EPA Method 8240/8260), semi-VOCs (EPA Method 3550/8270), and CAM 17 metals (EPA Method 3050A M/6010/7471). The chain-of-custody and laboratory analytical results are included in Appendix C and summarized in Tables 3D, 3E, and 3F. Confirmatory sampling results show all detected contaminants to be well below the established PRG levels, hence no further cleanup of the first solvent UST site was required.

#### 2.4 Second Solvent Tank

A second solvent tank was encountered on October 28, 1995. The tank was made of steel and

was estimated at 10 gallons. The tank was located to the south of the first solvent tank. Figure 3 depicts the approximate location of the second solvent tank. There was no record showing the date the tank was installed and put into operation. The nature of the content of the tank was unknown at the time it was discovered.

At the time of discovery, the tank was struck by an excavator bucket puncturing a hole in the tank and thereby releasing about 1 gallon of its liquid content into the native soil. Excavation work was immediately halted. The tank was covered with about 2 - 3 feet of clean soil and the area was isolated and barricaded with caution tape. PID readings of the tank indicated presence of VOCs.

#### 2.4-1 Soil and Liquid Sampling

One soil sample was collected from the surrounding affected soil, and one liquid sample was collected from the suspected solvent tank. The samples were analyzed for VOCs and semi-VOCs. The chain-of-custody and laboratory analytical results are included in Appendix C and summarized in Tables 4A and 4B. As indicated by the liquid test results, the tank contained low levels of solvents and VOCs. The soil test results did not indicate the presence of any of the analytes of interest.

#### 2.4-2 ACDEH Notification

This incident was reported to Ms. Susan Hugo on October 30, 1995. She advised the UST Closure Application form be modified by changing the original number of tank closures from 3 to 4. Appendix A includes a copy of the notification letter sent to Ms. Hugo. A separate Form B was also completed for this tank and submitted to ACDEH (Appendix A). A Hazardous Materials Release and Notification Report was filed with the Alameda County Health Care Services Agency on October 30, 1995 (Appendix A).

#### 2.4-3 Tank Loading and Transportation

The tank was uncovered, loaded, and transported by Erickson Environmental for disposal/recycling on October 31, 1995. There was no liquid content in the tank since it had been released into the surrounding soil. PID readings indicated the presence of VOCs in the tank prior to tank purging. The tank was purged by placing 5 lb of dry ice in the tank. LEL readings indicated 0%.

The tank was physically inspected prior to placing it in a truck-mounted roll-off bin. There were no fittings or pipings attached to the tank. The tank showed it had been ruptured due to the prior backhoe action. Figure 7 shows the second solvent tank prior to loading. The tank was wrapped in visqueen, carefully placed the in the truck-mounted roll-off bin, secured, and transported by Erickson Environmental to a licensed facility for disposal/recycling. A copy of the tank disposal manifest is included in Appendix B.

The Alameda County Department of Environmental Health and City of Oakland Fire Department were notified. However, no representative was present during the actual excavation and removal of the tank.

#### 2.4-4 UST Site Remediation

The affected soil around the tank was excavated and stockpiled for sampling and characterization with the first solvent tank stockpile, east of the tank excavation. The quantity of soil excavated was estimated at 50 cubic yards.

#### 2.4-5 Personnel PPE

The excavator operator was suited under level B PPE and the backup personnel were suited under level C with respirators during the sampling, uncovering, inspection, and loading of the solvent UST.

#### 3 UST SITE REMEDIATION

#### 3.1 Diesel UST Site

Analytical results of the soil samples collected from the excavation following removal of the diesel UST indicated the presence of TPH-D at 1,300 mg/kg at the fill end of the tank (Table 1). In remediating this site, contaminated soils around the diesel tank were excavated vertically to groundwater (approximately 8-9 feet below grade). Horizontally, the contaminated soils were excavated until no visual signs of discoloration (greenish) were observed or the boundary of the Phoenix 800 area was reached. Analysis of soil samples collected from the tank site following diesel UST site remediation indicated TPH-D at 30 and 22 mg/kg (Table 1), which are well below the PRG value of 100 mg/kg. Hence, the diesel UST site was remediated.

#### 3.2 Gasoline UST Site

Results of the soil sample analyses from the former gasoline tank location indicated detectable concentrations of some petroleum hydrocarbon constituents (Table 2). TPH-G was detected at a concentration of 27 ppm, ethyl benzene at a concentration of 0.10 ppm, and xylenes at a concentration of 0.05 ppm. Benzene, toluene, and methyl tertiary butyl ether (MTBE) were not detected in the soil samples.

Sampling results of the former gasoline tank location indicated the site did not require further remediation since the reported levels of TPH-D, ethylbenzene, and xylenes were well below the established PRG levels of 100 ppm, 74 ppm, and 99 ppm, respectively.

#### 3.3 First Solvent UST Site

Two soil samples were collected from the floor of the first solvent tank excavation following tank removal. The soil samples were tested for VOCs, semi-VOCs, and CAM-17 metals. Results of the soil sample analyses indicated detectable concentrations of volatile and semi-volatile organic compounds, and heavy metals (Tables 3A, 3B, 3C).

The soil VOC components: acetone, methylene chloride, and toluene were detected at maximum concentration of 3.1 ppm, 0.29 ppm, and at 1.9 ppm, respectively. No other VOCs were detected in the soil samples. A summary of the soil and liquid VOC results is presented in Table 3A.

The maximum concentration of semi-volatiles detected in the soil samples was 1.3 ppm for fluoranthene, 1.3 ppm for pyrene, 0.69 ppm for benzo (A) anthracene, 1.0 ppm for chrysene, 0.63 ppm for benzene (B) fluranthene, 1.30 ppm for benzo (A) pyrene, and 1.2 ppm for indeno (1,2,3,C,D) pyrene. A summary of the soil and liquid semi-volatile results is presented in Table 3B.

For the heavy metals, detectable concentrations were reported in the soil samples. Maximum concentrations of antimony at 10 ppm, arsenic at 6.1 ppm, barium at 87 ppm, cadmium at 1.4 ppm, chromium at 21 ppm, copper at 25 ppm, lead at 770 ppm, nickel at 14 ppm, selenium at 2.4 ppm, vanadium at 15 ppm, zinc at 150 ppm, and mercury at 0.11 p.m. were reported for the soil samples. A summary of analytical results of CAM-17 metals for the soil and liquid samples is presented in Table 3C.

Following excavation of the soils from around the solvent UST, two confirmatory soil samples were collected from the floor area of the excavation. The analytical results indicated

that volatiles, semi-volatiles, and metal concentrations were well below the PRG levels set for this site, hence no further remediation was considered for this site. Tables 3D, 3E, and 3F summarize the confirmatory test results for volatiles, semi-volatiles, and CAM-17 metals, respectively.

#### 3.4 Second Solvent UST Site

One soil sample was collected from the area directly underlying the 25-gallon. solvent tank and was tested for volatile and semi-volatile organic compounds. Analysis of the soil sample showed non-detect for all the analytes of interest (VOCs and semi-VOCs), hence remediation of the second solvent tank site was not considered.

#### 4 STOCKPILE MANAGEMENT

The soils excavated from around the diesel and solvent USTs were stockpiled offsite (two diesel stockpiles and two solvent stockpiles) on a concrete slab approximately 50 yards east of area 'T'. Quantities of stockpiled soils from diesel- and solvent- affected UST sites were estimated at 800 and 250 cubic yards, respectively. The stockpiles were sampled for characterization and disposal. Figure 8 depicts the relative position and approximate size of all of the Phoenix 800 stockpiles, including the diesels and solvent stockpiles. Figure 9 depicts the stockpiled soil sampling locations. Laboratory analytical results of characterization samples collected from the diesel stockpile are included in Appendix C and summarized in Tables 5A and 5B..

#### 4.1 Diesel Stockpiles

Four soil samples were collected from the first diesel stockpile and tested for TPH-D (EPA Method 8015) and total and threshold concentration leaching procedure (TCLP) for lead (EPA Method 6010). Each sample represented a stockpiled soil volume of approximately 100 cubic yards. Figure 9 depicts the sampling locations. The analytical test results are included in Appendix C and summarized in Table 5A. As shown in Table 5A, all the analytes tested for were well below their respective PRG levels, and hence the first diesel stockpile was characterized as non-hazardous. This stockpile will be used as fill material on the Cypress 'B' site.

Six composite samples were collected from the second diesel stockpile and tested for total recoverable petroleum hydrocarbons (TRPH)(EPA Method 418.1), TPH-D (EPA Method 8015), and total lead (EPA Method 3050/7420). Each composite soil sample represented a stockpiled soil volume of 100 cubic yards. Figure 9 depicts the composite sampling locations.

The analytical test results are included in Appendix C and summarized in Table 5B. As shown in Table 5B, all the analytes tested for were well below their respective PRG levels, and hence the second diesel stockpile was characterized as non-hazardous. This stockpile will be used as fill material on the Cypress 'B' site.

#### 4.2 Solvent Stockpiles

Six samples were collected from the solvent stockpiles and tested for VOCs (EPA Method 8240), semi-VOCs (EPA Method 8270) and CAM-17 metals (EPA Method 3050A M/6010/7471). Each sample represented a 20 foot section of the stockpile along its length. Figure 9 depicts the stockpile sampling locations. The detailed analytical results are included in Appendix C and summarized in Tables 6A, 6B, and 6C. As shown in Tables 6A and 6B, the majority of the analytes tested for were reported as non-detect and only a few were reported in very low concentrations.

VOCs were reported at maximum concentrations of 13 µg/kg for tetrachloroethene and 43 µg/kg for toluene. Semi-VOCs were reported at maximum concentrations of 480 µg/kg for Anthracene, 470 µg/kg for Fluoranthene, and 410 µg/kg for Pyrene. These concentrations are considered well below PRG levels. CAM-17 metals were reported at concentrations well below the PRG levels, except for lead. As shown in Table 6C, total lead was reported at 1900 mg/kg and 1,400 mg/kg for samples T.SOLV.STOC.1 and T.SOLV.STOC.2, respectively. TCLP lead was reported at 24 and 11 mg/l for these samples, respectively, characterizing the portion of the solvent stockpile represented by these samples (a 40-foot section of the solvent stockpile) as Resource Conservation and Recovery Act (RCRA) waste. The section of the solvent stockpile classified as RCRA waste was segregated, loaded, and transported to Laidlaw class I landfill in Buttonwillow, California, on November 17, 1995, for disposal. The hazardous waste disposal manifests are included in Appendix D.

#### 5 SAMPLING

#### 5.1 Sampling Procedure

Soil samples from UST excavations and remediated UST sites were collected by driving 2-in by 6-in brass sleeves capped at one end (Teflon paper + plastic cap) directly into the soil. Following collection of the soil samples in the brass sleeves, the open sleeve ends were covered with Teflon paper and capped immediately. Each sample was properly labeled and refrigerated with blue ice in a cooler pending shipment to a laboratory for analysis. Liquid samples were collected in 1-liter amber glass bottles. The chain-of-custody forms and the detailed analytical results are included in Appendix C.

Soil samples from the stockpiles were collected by first augering 2-3 feet below the surface and later employing a core sampler with a 2 inch x 6 in brass sleeve insert to collect the sample at 3 feet below the surface of the stockpile.

### 5.2 Equipment Contamination Prevention

All equipment used for collecting soil samples was cleaned with nonphosphate detergent and triple rinsed with deionized water prior to sampling. Trowels, hand augers, and core samplers were cleaned between each sampling event to prevent cross contamination from one sample location to another. Furthermore, fresh latex gloves were worn prior to each sampling event.

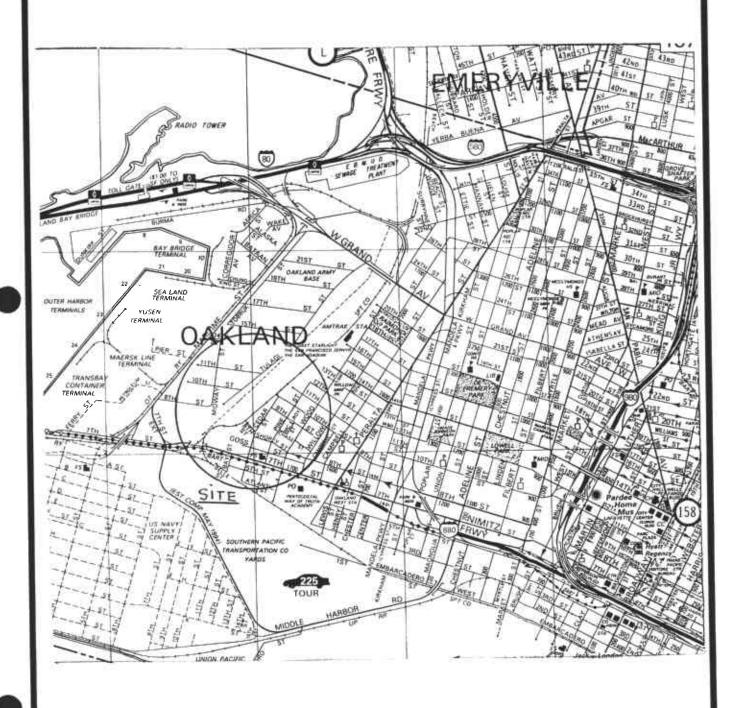
#### 5.3 Soil and Liquid Sample Analysis

Soil and liquid samples were collected from UST excavations following UST removal.

Confirmatory soil samples were later collected from remediated UST sites and analyzed for contaminants of concern.

Soil samples collected from the diesel UST site were analyzed for TPH-D via EPA Method 3550/8015M. Soil samples collected from the gasoline UST site were analyzed for TPH-G, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) via EPA Method 5030/8015M/8020. Soil samples collected from the solvent UST site were analyzed for VOCs, semi-VOCs, and CAM-17 metals via EPA Methods 8240, 8270, and 6010, respectively.

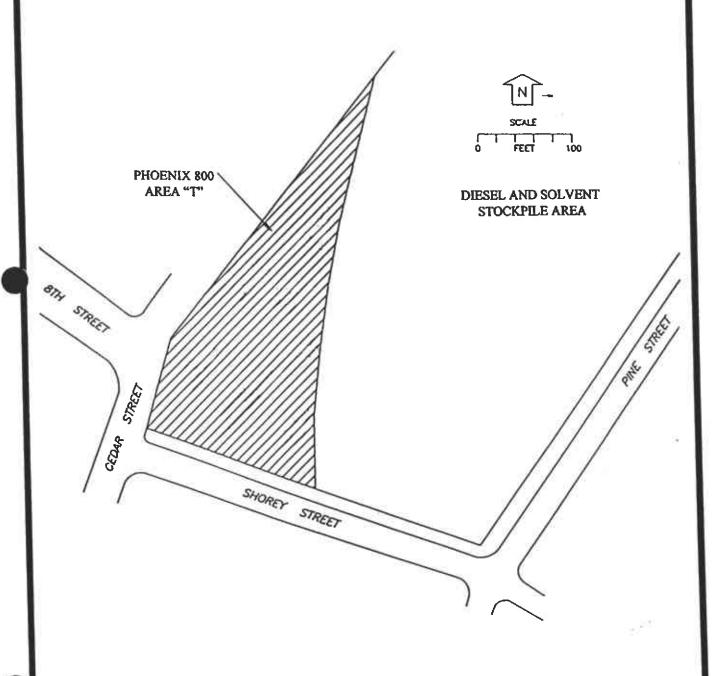
# FIGURE 1 CYPRESS "B" PHOENIX 800 SITE LOCATION MAP



CT CYPRESS 'B' PHOENIX 800

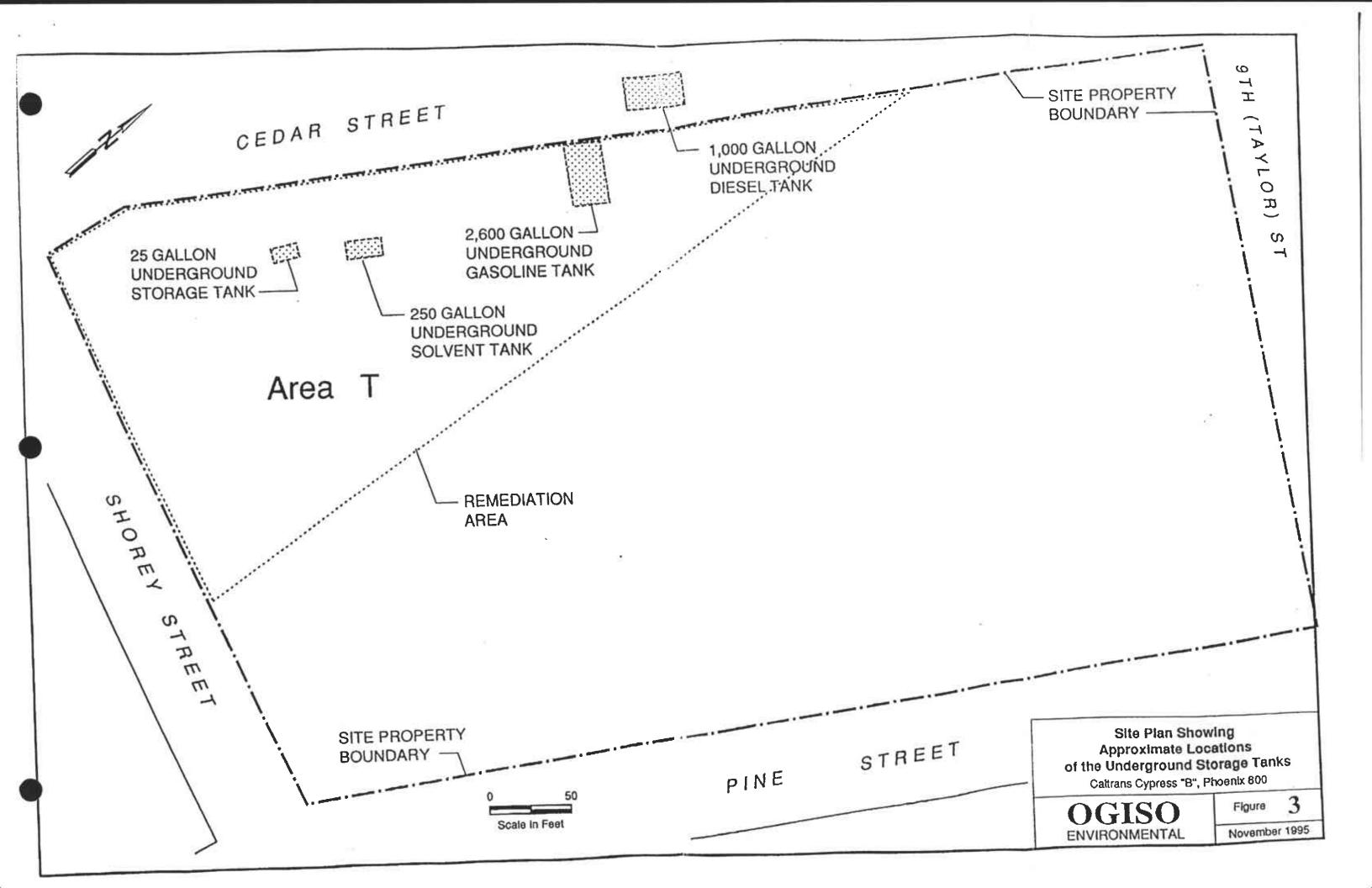
UST REMOVAL/E-95130CT, 11/27/95

FIGURE 2
CYPRESS "B" PHOENIX 800
SITE VICINITY MAP



CT CYPRESS 'B' PHOENIX 800

UST REMOVAL/E-95130CT, 11/27/95



# FIGURE 4 CYPRESS "B" PHOENIX 800 DIESEL UST PRIOR TO LOADING



# FIGURE 5 CYPRESS "B" PHOENIX 800 GASOLINE UST PRIOR TO LOADING

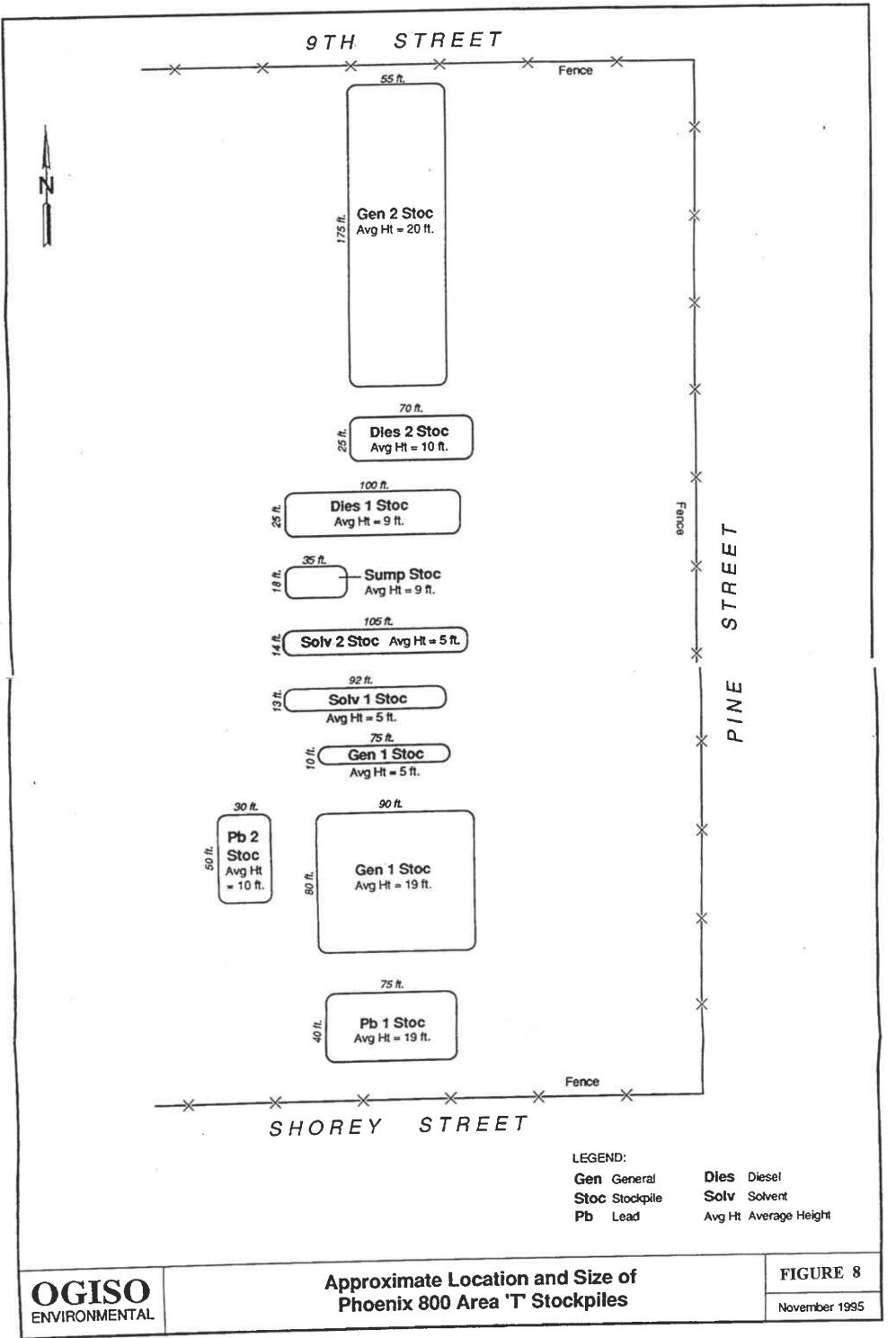


# FIGURE 6 CYPRESS "B" PHOENIX 800 FIRST SOLVENT UST PRIOR TO LOADING



# FIGURE 7 CYPRESS "B" PHOENIX 800 SECOND SOLVENT UST PRIOR TO LOADING





Bayani 510.778-2681

#### FIGURE 9

#### **CYPRESS "B" PHOENIX 800**

#### LOCATION OF STOCKPILE CHARACTERIZATION SAMPLES

FIRST DIESEL STOCKPILE T.DIES.STOC.---

•1	•2	
•3	•4	

SECOND DIESEL STOCKPILE T.DIES.STOC. ---ABCD

A B	A B	A B	A B	A B	A B
•1	•2	•3	•4	•5	•6
C	C	C	C	C	C
D	D	D	D	D	D

FIRST SOLVENT STOCKPILE T.SOLV.STOC.---

• 1	•3
•2	•4

SECOND SOLVENT STOCKPILE T.SOLV.STOC.---

•5
•6

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- 1: Analytical Results of Soil Samples Collected Before and After Remediation of Former Diesel UST Site (TPH-D, EPA METHOD 3550/8015M)
- 2: Analytical Results of Soil Samples Collected From the Gasoline Tank Excavation (TPH-G, EPA METHOD 5030/8015M/8020)
- 3A: Analytical Results of Soil and Liquid Samples Collected Following Removal of the First Solvent UST (VOCs, EPA METHOD 8240/8260)
- 3B: Analytical Results of Soil and Liquid Samples Collected Following Removal of the First Solvent UST (SEMI-VOCs, EPA METHOD 3550/8270)
- 3C: Analytical Results of Soil and Liquid Samples Collected Following Removal of the First Solvent UST (CAM-17 METALS, EPA METHOD 3050A M/6010/7471)
- 3D: Analytical Results of Confirmatory Soil Samples From Floor of the First Solvent UST Excavation (OIL & GREASE (EPA 5520), VOCs (EPA 8240))
- 3E: Analytical Results of Confirmatory Soil Samples From Floor of the First Solvent Tank Excavation (SEMI VOCs (EPA 8270))
- 3F: Analytical Results of Confirmatory Soil Samples from Floor of the First Solvent Tank Excavation (CAM-17 Metals, EPA Method 3050a M/6010/7471)

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- 4A: Analytical Results of Soil and Liquid Samples Collected Following Removal of the Second Solvent UST VOC's (EPA 8240/8260)
- 4B: Analytical Results of Soil and Liquid Samples Collected Following Removal of the Second Solvent UST (Semi-VOCs, EPA Method 8270)
- 5A: Analytical Results for Characterization Sampling Of the First Diesel Stockpile TPH-D (EPA 3550/8015m), Lead (EPA 6010)
- 5B: Analytical Results for Characterization Sampling Of the Second Diesel Stockpile TRPH (EPA 418.1), TPH-D (EPA 3550/8015m), Lead (EPA 3050/7420)
- 6A: Analytical Results for Characterization Sampling of the Solvent Stockpiles (VOCs, EPA 8240)
- 6B: Analytical Results for Characterization Sampling of the Solvent Stockpiles (Semi-VOCs, EPA 8270)
- 6C: Analytical Results for Characterization Sampling Of the Solvent Stockpiles (CAM-17 Metals, EPA Method 3050a M/6010/7471)

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED
BEFORE AND AFTER REMEDIATION OF FORMER DIESEL UST SITE
(TPH-D, EPA METHOD # 3550/8015M)

(October 20, 1995)

Sample I.D.	TPH-D (mg/Kg) Before	TPH-D (mg/Kg) After/Confirmatory	TPH-D (mg/Kg) PRG
DIS-N	1300		100
DIS-S	N.D.	200000	100
2T14-6-W	7211112	30	100
2T13-6-0	9 <u>227222</u>	22	100

TABLE 2

ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED

FROM THE GASOLINE TANK EXCAVATION

(TPH-G, EPA METHOD # 5030/8015M/8020)

(October 20, 1995)

Analyte	GAS-E (mg/kg)	GAS-W (mg/kg)	PRG (mg/kg)
TPH-Gasoline	27	N.D.	100
Benzene	N.D.	N.D.	31
Toluene	N.D.	N.D.	280
Ethyl Benzene	0.10	N.D.	74
Xylenes	0.05	N.D.	99
MTBE	N.D.	N.D.	

PRG = Preliminary Remedial Goal

#### **TABLE 3A**

## ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE FIRST SOLVENT UST (VOC'S, EPA METHOD # 8240/8260)

(October 15, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	Liquid Sample #3 (mg/l)
Acetone	1.90	3.10	660
Methyl Ethyl Ketone	N.D.	N.D.	3.6
Methylene Chloride	0.29	0.23	130
Toluene	1.90	1.20	60
Other*	N.D.	N.D.	N.D.

TABLE 3B

### ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE FIRST SOLVENT UST

(SEMI-VOC'S, EPA METHOD # 3550/8270)

(October 15, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	Liquid Sample #3 (mg/l)
Phenol	ND	ND	10
1,4 - Dichlorobenzene	ND	ND	0.27
Benzyl Alcohol	ND	ND	0.18
1,2 - Dichlorobenzene	ND	ND	0.75
2 - Methylphenol	ND	ND	17
4 - Methylphenol	ND	ND	23
2,4 - Dimethyl Phenol	ND	ND	3.7
Fluoranthene	1.30	ND	ND
Pyrene	1.30	ND	ND
Benzo (A) Anthracene	0.69	ND	ND
Chrysene	1.0	ND	ND
Benzene (B) Fluoranthene	0.63	ND	ND
Benzo (A) Pyrene	1.30	ND	ND
Indeno (1,2,3 C,D) Pyrene	1.20	ND	ND
Other	ND	ND	ND

TABLE 3C

## ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE FIRST SOLVENT UST (CAM-17 METALS, EPA METHOD # 3050A M/6010/7471)

(October 15, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	Liquid Sample#3 (mg/l)	PRG Values (mg/kg)
Antimony	10	ND	ND	67
Arsenic	6.1	2.1	ND	4.6
Barium	87	61	1.2	12,000
Beryllium	ND	ND	ND	1.8
Cadmium	1.4	1.1	ND	24
Chromium	21	19	ND	170,000
Cobalt	ND	ND	ND	8,000
Copper	25	23	ND	5,000
Lead	770	480	6	840
Molybdenum	ND	ND	ND	830
Nickel	13	14	ND	44
Selenium	2.4	ND	ND	830
Silver	ND	ND	ND	830
Thallium	ND	ND	ND	14
Vanadium	15	15	ND	1,200
Zinç	130	150	48	50,000
Mercury	0.11	0.07	ND	45

N.D. = Non Detect

TABLE 3D

ANALYTICAL RESULTS OF CONFIRMATORY SOIL SAMPLES
FROM FLOOR OF THE FIRST SOLVENT UST EXCAVATION
OIL & GREASE (EPA # 5520), VOC'S (EPA # 8240)

(October 24, 1995)

Analyte	Solv 1 Sample (mg/kg)	Solv 2 Sample (mg/kg)	DTSC Established PRGs (mg/kg)
Oil and Grease	130	130	1000
Acetone	0.089	0.041	
Ethyl Benzene	0.016	0.079	74
Toluene	0.049	0.040	280
Total Xylenes	0.022	0.11	99
Other	N.D.	N.D.	(A.

N.D. = Non Detect

TABLE 3E

ANALYTICAL RESULTS OF CONFIRMATORY SOIL SAMPLES
FROM FLOOR OF THE FIRST SOLVENT TANK EXCAVATION
SEMI VOC'S (EPA # 8270)

(October 24, 1995)

Analyte	Solv 1 Sample (mg/kg)	Solv 2 Sample (mg/kg)	DTSC-Established PRGs (mg/kg)
Naphthalene	N.D.	4.4	82
4-Chloro-3-Methyl Phenol	N.D.	4.1	
Acenaphthene	N.D.	4.4	
DibenzoFurane	N.D.	3.2	
Fluorene	N.D.	3	
Phenathrene	N.D.	10	
Fluoranthene	N.D.	6.2	2300
Pyrene	N.D.	4.8	1700
Other	N.D.	N.D.	

N.D. = Non Detect

TABLE 3F

ANALYTICAL RESULTS OF CONFIRMATORY SOIL SAMPLES
FROM FLOOR OF THE FIRST SOLVENT TANK EXCAVATION

(CAM-17 METALS, EPA METHOD # 3050A M/6010/7471)

(October 24, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	PRG Values (mg/kg)
Antimony	3.7	N.D.	67
Arsenic	N.D.	N.D.	4.6
Barium	96	37	12,000
Beryllium	ND	N.D.	1.8
Cadmium	N.D.	N.D.	24
Chromium	23	21	170,000
Cobalt	N.D.	N.D.	8,000
Copper	63	8.7	5,000
Lead	670	58	840
Molybdenum	N.D.	N.D.	830
Nickel	15	15	44
Selenium	N.D.	N.D.	830
Silver	N.D.	N.D.	830
Thallium	N.D.	N.D.	14
Vanadium	18	15	1,200
Zinc	480	32	50,000
Mercury	0.25	0.07	45

N.D. = Non Detect

TABLE 4A

ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED

FOLLOWING REMOVAL OF THE SECOND SOLVENT UST

VOC'S (EPA # 8240/8260)

(October 28, 1995)

Analyte	Liquid Sample (µg/l)	Soil Sample (µg/kg)
Acetone	83	N.D.
Benzene	61	N.D.
Methyl Ethyl Ketone	62	N.D.
Ethyl Benzene	56	N.D.
Styrene	29	N.D.
Toluene	48	N.D.
Total Xylenes	77	N.D.
Other*	N.D.	N.D.

# TABLE 4B ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE SECOND SOLVENT UST (SEMI VOC'S, EPA Method # 8270)

(October 28, 1995)

Analyte	Liquid Sample (µg/l)	Soil Sample (mg/kg)
m+P-Methylphenol	19	N.D.
2,4-Dimethyl Phenol	14	N.D.
Naphthalene	450	N.D.
2-MethylNaphthalene	100	N.D.
Other	N.D.	N.D.

#### TABLE 5A

### ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING OF THE FIRST DIESEL STOCKPILE

TPH-D (EPA # 3550/8015M), LEAD (EPA # 6010)

(October 27, 1995)

Sample I.D.#	TPH-D (mg/kg) PRG= 100 mg/kg	Total Lead (mg/kg) PRG=840 mg/kg	TCLP Lead (mg/kg) PRG=5 mg/kg
T.DIES.STOC.1	N.D.	1.2	N.D.
T.DIES.STOC.2	N.D.	82	0.59
T.DIES.STOC.3	N.D.	38	N.D.
T.DIES.STOC.4	6.8	43	1.6

N.D. = Non Detect

TABLE 5B
ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING
OF THE SECOND DIESEL STOCKPILE

TRPH (EPA # 418.1), TPH-D (EPA # 3550/8015M), LEAD (EPA # 3050/7420)

(November 6, 1995)

Sample LD.#	TRPH (mg/kg) PRG=1000 mg/kg	TPH-D (mg/kg) PRG=100 mg/kg	LEAD (mg/kg) PRG=840 mg/kg
T DIES2.STOC.1A,B,C,D	110	N.D.	150
T DIES2.STOC.2A,B,C,D	69	1.8	36
T DIES2.STOC.3A,B,C,D	99	N.D.	74
T DIES2.STOC.4A,B,C,D	66	N.D.	90
T DIES2,STOC.5A,B,C,D	33	N.D.	46
T DIES2.STOC.6A,B,C,D	51	N.D.	76

N.D. = Non Detect

#### **TABLE 6A**

#### ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING

#### OF THE SOLVENT STOCKPILES

(VOC'S, EPA # 8240)

(October 27, 1995)

Analyte	T.SOLV.	T.SOLV.	T.SOLV.	T.SOLV.	T.SOLV.	T.SOLV.
	STOC.1 (ng/kg)	STOC.2 (µg/kg)	STOC.3	STOC.4 (#g/kg)	STOC.5 (#2/kg)	STOC.6 (#g/kg)
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	13
Toluene	43	N.D.	N.D.	N.D.	N.D.	N.D.

## TABLE 6B ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING OF THE SOLVENT STOCKPILES

(SEMI VOC'S, EPA # 8270)

(October 27, 1995)

Analyte	T.SOLV. STOC.1 (ag/kg)	T.SOLV. STOC.2 (µg/kg)	T.SOLV. STOC.3 (#g/kg)	T.SOLV. STOC.4 (ag/kg)	T.SOLV. STOC.5 (µg/kg)	T.SOLV. STOC.6 (µg/kg)
Anthracene	480	N.D.	N.D.	N.D.	N.D.	N.D.
Fluoranthene	470	N.D.	N.D.	N.D.	N.D.	N.D.
Pyrene	410	N.D.	N.D.	N.D.	N.D.	N.D.

**TABLE 6C** 

#### ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING

#### OF THE SOLVENT STOCKPILES

#### (CAM-17 METALS, EPA METHOD # 3050A M/6010/7471)

(October 27, 1995)

Analyte	T.SOLV. STOC.1	T.SOLV. STOC.2	T.SOLV. STOC.3	T.SOLV. STOC.4	T.SOLV. STOC.5	T.SOLV. STOC.6	PRG Values (nig/kg)
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Antimony	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	67
Arsenic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4.6
Barium	150	130	120	43	46	52	12,000
Beryllium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.8
Cadmium	0.6	N.D.	N.D.	N.D.	N.D.	N.D.	24
Chromium	39	38	35	29	35	44	170,000
Cobalt	6.8	5.9	6.3	5.4	N.D.	5.3	8,000
Copper	50	46	34	12	13	12	5,000
Lead(TCLP)	1900 (24)	1400 (11)	550 (3.8)	52 (N.D.)	8.0 (N.D.)	41 (N.D.)	840 (5)
Мегсигу	0.13	0.07	0.093	0.022	0.014	17.7	45
Molybdenum	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	830
Nickel	24	24	23	24	20	24	44
Selenium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	830
Silver	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	830
Thallium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	14
Vanadium	27	25	25	21	23	27	1,200
Zinc	220	180	180	59	22	41	50,000

N.D. = Non Detect

PRG = Preliminary Remedial Goal

(TCLP) Concentrations are in  $\mu g/l$ 

#### APPENDIX A

APPENDIX A1:

UST EXCAVATION PERMIT FORMS

APPENDIX A2:

**SOLVENT TANK FORM 'B'** 

TANK DISCOVERY NOTIFICATION

HAZARDOUS MATERIALS RELEASE NOTIFICATION

APPENDIX A3:

ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL

HEALTH UST REMOVAL REPORT

#### APPENDIX A1:

#### **UST PERMIT FORMS**

#### DEPARTMENT OF ENVIRONMENTAL HEALTH ENVIRONMENTAL PROTECTION DIVISION 1131 HARBOR BAY PARKWAY, RM 250 ALAMEDA, CA 94502-6577 PHONE # 510/567-6700 FAX # 510/337-9335

Project Specia プログライが

ACCEPTED

Underground Storage Tank Closure Permit Application

Alameda County Division of Hazardous Materiels 80 Swan Way, Suite 200,

These closure/removel plans have been recoived and found to Telephone: (510) 271-4320 Oakland, CA 94621

and Local Health Laws Changes to your closure plans indicated the acceptable and essentially meet the requirements of State by this Department are to assure compliance with State and local

Sum short of the same he submitted to the Opport of trad to the and Building laws. The project proposed herein is now relatived for issuance One copy of the Accepted the system of the and eveilof any required building pointits for construction dostruction able to all confrectors and confirmentation of with the removal Any change of all places of the merits UNDERGROUND

Inspections Delarmant to dutamine if ruth changes meet the requirements of State and total laws.

Notify this Department at least 72 hours prior to the following Removel of Tank(s) and Piping required inspections: \*

Issuance of a) permit to operate, b) permenent site closure, is dependent on compliance with accepted plans and all ap-Final Inspection plicable laws and regulations.

Sampling

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS

Souther Specialistic Specialist

JUN 2

8

1995

CLOSURE PLAN according to attached instructions Complete

Name of Business Phoenix Iron World	ks
Business Owner or Contact Person 889 2. Site Address800 Cedar Street	(PRINT) Victor Salazar
2. Site Address800 Cedar Street	
	Zip <sup>Ca 94607</sup> Phone
3. Mailing Address 1545 Willow St	treet
	Zip CA 94607 Phone (510) 286-1366
4. Property OwnerCalifornia De	partment of Transportation
Business Name (if applicable)	Caltran District 04
Address 1545 Willow Street	
City, State Oakland	Zip <u>CA 94607</u>
5. Generator name under which tank	
Caltrans	
	· · · · · · · · · · · · · · · · · · ·
EPA ID# under which tank will b	e manifested CALOO 0121633
* Fire Extinguisher much be on site at all time,	CAC001029656
on site at all line	
rev 4/6/95 A CARAN ET HE THE ALTHO	later. Plan must be at the

	ContractorCEELON
•	Address 1517 Palmetto Avenue, Suite 4
•	City Pacifica, CA 94044 Phone (415) 738-1115
	License Type A ID# 589926 47 3/3/94
	*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.
7.	Consultant (if applicable) OGISO Environmental
	Address387 17th Street, Suite 210
	City, State 0akland, CA 94612 Phone Phone (510) 452-0246
В.	Main Contact Person for Investigation (if applicable)
	Name Ola Balogun Title
	Company
	Phone
9.	Number of underground tanks being closed with this plan 2
	Length of piping being removed under this plan
	Total number of underground tanks at this facility (**confirmed with owner or operator) $\frac{2}{}$
10.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
**	Underground storage tanks must be handled as hazardous waste **
	a) Product/Residual Sludge/Rinsate Transporter @ A1200000185
	Name Loyal Moore Trucking EPA I.D. No.
	Hauler License No. 182124 License Exp. Date Feb 1996
	Address 410 Kennedy Street
-	City Oakland State CA Zip 94606
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name Weggeen EPA ID#
	Address
	City State Zip

Hauler L Address City  d) Tank and Name Address City  1. Sample Co Name Company Address City 2. Laborator	icense No. 182124 410 Kennedy Stre Oakland Piping Disposal MCLAON  Clac  OGISO Environ 387 17th Street,	State Zip94606  Site EPA I.D. No  State Zip
Address City  d) Tank and Name  Address City  Sample Co Name  Company  Address  City  Laborator	410 Kennedy Stre  Oakland  Piping Disposal  MCLSON  Cla  OGISO Environ  387 17th Street,	State Zip94606  Site EPA I.D. No  State Zip  nmental , Suite 210
city  d) Tank and Name Address city Sample Co Name Company Address city city 2. Laborator	Piping Disposal  MCLSON  Cla  OGISO Environ  387 17th Street,	State Zip94606  Site EPA I.D. No  State Zip  mmental  Suite 210
d) Tank and Name Address City  Sample Co Name Company Address City0a	Piping Disposal  McLSon  Cla  OGISO Environ  387 17th Street,	EPA I.D. No.  State Zip  mmental  Suite 210
Name Address City Sample Co Name Company Address City Laborator	nickson  llector  Ola  OGISO Environ  387 17th Street,	State Zip
Name Address city Sample Co Name Company Address City Laborator	nickson  llector  Ola  OGISO Environ  387 17th Street,	State Zip
City  Sample Co  Name  Company  Address  City  Laborator	Ola OGISO Environ 387 17th Street,	nmental , Suite 210
Name Company Address City Laborator	OGISO Environ 387 17th Street,	nmental , Suite 210
Name Company Address city0a	OGISO Environ 387 17th Street,	, Suite 210
Company	OGISO Environ	, Suite 210
Address City0a  Laborator	387 17th Street,	, Suite 210
city 0a		
	_	
Name	Sparger Technolo	ogy, Inc.
Address	3050 Fite Circle	e, Suite 112
_		State CA Zip 95827
	tification No	
3. Have tan	ks or pipes leake	ed in the past? Yes[ ] No[x] Unknown[ ]
If yes,	describe	
<del>-</del> ·		

1.516 dry ice per 100 gal UST

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 permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

#### 15. Tank History and Sampling Information \*\*\* (see instructions) \*\*\*

	Tank Material to be sampled		Location and	
Capacity	Use History include date last used (estimated)	(tank contents, soil, groundwater)	Depth of Samples	
300 gal	diesel	soil + gw if four	beton of	
1000 gal	gasoline	٠, (١	CISTS	

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

fail sample muit be calleted under neath the

Excavated/Stockpiled Soil				
Stockpiled Soil Volume (estimated)	Sampling Plan  I discrete per 20 yd 3 if  Avil reused onsite  OR go per landfill			

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

If yes, explain reasoning want for lab results

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without <u>prior</u> approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.

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

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
Mild	3550	GCF10	
tptg	5030	( (	
DIEX		8020 on 8240	
MHZ MHZ BTEX Lend	AA		

18. Submit Worker's Compensation Certificate copy	in the second se
Name of Insurer	
19. Submit Plot Plan ***(See Instructions)***	
20. Enclose Deposit (See Instructions)	
21. Report any leaks or contamination to this office within 5 days	of
<pre>discovery. The written report shall be made on an Underground Storage T Unauthorized Leak/Contamination Site Report (ULR) form.</pre>	ank
22. Submit a closure report to this office within 60 days of the tremoval. The report must contain all information listed in item 22 the instructions.	ank of
23. Submit State (Underground Storage Tank Permit Application) Forms A and (one B form for each UST to be removed) (mark box 8 for "tank removed" the upper right hand corner)	nd B ' in
I declare that to the best of my knowledge and belief that the statements information provided above are correct and true.	and
I understand that information, in addition to that provided above, may needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approve	sion
I understand that any changes in design, materials or equipment will this plan if prior approval is not obtained.	void
I understand that all work performed during this project will be done compliance with all applicable OSHA (Occupational Safety and He Administration) requirements concerning personnel health and safety. understand that site and worker safety are solely the responsibility of property owner or his agent and that this responsibility is not shared assumed by the County of Alameda.	altn I the
Once I have received my stamped, accepted closure plan, I will contact project Hazardous Materials Specialist at least three working days in advoc site work to schedule the required inspections.	the rance
CONTRACTOR INFORMATION	
Name of Business. CALTRANS 09150 Environmental	<del></del>
Name of Individual Ola Balogua	
Signature Date	595
PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)	
Name of Business <u>CALTRANS</u>	
Name of Individual Victor SALAZAN	_0
Signature Victor Salaza Date 7-5-95	

#### ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

#### DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predesignate another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

OTMP	INFORMA	TANT .
RITE	TULUKER	TITORS

Phoenix Iron Works	
Name of Site	<b>e</b>
800 Cedar Street	
Street Addre	SS
Oakland, CA 94607	
City, State & Zi	p Code
refund due at the completion of all	,
Name OGISO	,
Name	
06180	
Name 387 17th Street, Suite 210	
Name  387 17th Street, Suite 210 Street Address	
Name  387 17th Street, Suite 210  Street Address  Oakland, CA 94612	
Name  387 17th Street, Suite 210 Street Address Oakland, CA 94612	Date

#### **RETURN FORM TO:**

County of Alameda, Environmental Protection 1131 Harbor Bay Parkway, Rm 250 Alameda CA 94502-6577 Phone#(510) 567-6700

		Esc	evation Permit Grants	d	No	
	CITY	OFO	AKLANI		Tank Parmit	
Permit	to Excavate and Insta	II. Repair, o	r Remove Infla	ımmable Liquid T	gnks. No. 9942	
, , , , , , , , , , , , , , , , , , ,						95
222 M242 L						
PERMISSION IS	HEREBY GRANTED TO INCLUDE	remove X	<u>IX</u> Gesoline fank en	id excavate commencing	feet inside	line
n the side of		Street	faat	of		Street Avenue
	., Oakland, 94607	C11				
ር AT ጥክ AND					d Phone 286-1366	
/# // <del></del>						
• •					•	
Pimensions of street (sidewalk) su	rrface to be disturbed	.X	Number of Tanks	Capacity 300	, 1000 Gallons,	eech.
emarks:		<del> </del>	·			
pproved	Drainage Division Engine	ering Dept.	-	W	E	
EXCAV	ATING PERMIT		_			
issued in accordance wi	hh Ord. No. 278 CMS, Sec. 6-2.04	4	_			
·	square feet of digging or remov			S		
		•	CERTIFICATE (	OF TANK AND EQ	UIPMENT INSPECTIO	DN
he receipt of \$	special deposit is hereby ac	knowledged.	Inspected and passed	on		,
GENERAL DEPOSIT.	BUREAU OF PERMITS AND	TICENSIS				
	SOUTH OF LEWIS WIND	AIGEN753	<sup>0</sup> γ	<del></del>	Fire Ma	ershal
			•		_	
nspection Fee Peld	200.00 (cas	h)		NOTIC	<del>-</del>	
eceived by S. Smith r	eceipt#725522				ificate Must Be Signe	đ.
·			When ready for Inche	ction notify Fire Present	AR EMPARA 772_2261	

THEREFOR.

THIS PERMIT MUST BE LEFT ON THE YORK AS

	Excevation Permit GrantedNoNo
CITY OF	OAKLAND Tank Permit
Permit to Excavate and Install. Repair	r, or Remove Inflammable Liquid Tanks. No. 9941
	Oakland, California, July 25, 1995
PERMISSION IS HEREBY GRANTED TO XIXIXE remove	XXXX Gasoline tank and excavate commencing feet Inside line
£4	
on theAven	uefeetofAvenue
House No. 727 Pine Street Aven	of Present Storage
	1545 Willow St. Phone 2861366
Applicant OGISO Addin	387 17th St., #210 Phone 452-0246
Dimensions of street (sidewalk) surface to be disturbedX	
Remarks:	
Approved Drainage Division Engineering Dept.	W
EXCAVATING PERMIT	
Issued in accordance with Ord. No. 278 CMS, Sec. 6-2.04	CERTIFICATE OF TANK AND EQUIPMENT INSPECTION
The receipt of \$special deposit is hereby acknowledged.	Inspected and passed on
GENERAL DEPOSIT.  BUREAU OF PERMITS AND LICENSES.	ByFire Marshel
•	
Inspection Fee Paid \$ 150.00	NOTICE  Before Covering Tanks, Above Certificate Must Be Signed.

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.

#### **APPENDIX A2:**

## SOLVENT TANK FORM 'B' TANK DISCOVERY NOTIFICATION HAZARDOUS MATERIALS RELEASE NOTIFICATION



Professionals in Environmental Sustenance

#### OGISO Environmental

150 W. Iowa Ave., Ste 200 P.O. Box 61025 Sunnyvale, CA 94086 Tel (408) 245-9801/9802 FAX (408) 245-3870

387 17th St., Ste 210 Oakland, CA 94612 Tel (510) 452-0246 FAX (510) 452-5282 October 17, 1995

Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502 Attn: Ms. Susan Hugo

Dear Ms. Hugo:

#### RE: UNDER GROUND STORAGE TANK REMOVAL PERMIT

Following our telephone conversation and per your request, I am writing to inform you of the accidental discovery of an additional underground storage tank at the Phoenix Iron Works Site located on 888 Cedar Street, Oakland.

The capacity of the underground storage tank is estimated to be 250 gallons. Analytical results of the liquid content indicate presence of Toluene, Acetone, Phenols and Dichlorobenzenes. The Health and Safety Plan has been modified to incorporate the new findings.

As suggested, please change the number of underground storage tanks to be closed from 2 to 3 in the previous Underground Tank Closure Plan submitted for this site in June 1995. A separate Form B for this tank and site plan showing the approximate location of the new underground storage tank are attached.

The removal operations of the three tanks have been scheduled for Friday, October 20, 1995.

If you have any questions, please contact me. Thank you.

Ola Balogun, PE



Professionals in Environmental Sustenance

#### **OGISO Environmental**

150 W. Iowa Ave., Ste 200 P.O. Box 61025 Sunnyvale, CA 94086 Tel (408) 245-9801/9802 FAX (408) 245-3870

387 17th St., Ste 210 Oakland, CA 94612 Tel (510) 452-0246 FAX (510) 452-5282 October 30, 1995

Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502 Attn: Ms. Susan Hugo

Dear Ms. Hugo:

#### RE: UNDER GROUND STORAGE TANK REMOVAL PERMIT

Following our telephone conversation and per your request, I am writing to inform you of an additional underground storage tank accidentally encountered on October 28, 1995 at the Phoenix Iron Works Site located on 888 Cedar Street, Oakland.

The capacity of the underground storage tank is estimated to be 25 - 30 gallons. Analytical results of the liquid content indicate presence of trace amount of Toluene, Acetone, Phenols, Xylenes, Ethylbenzene, and Methyl Ether Ketone. The Health and Safety Plan has been modified to incorporate these new findings.

Please change the number of underground storage tanks to be closed from 3 to 4 in the previous Underground Tank Closure Plan submitted for this site in June 1995. A separate Form B for this tank and site plan showing the approximate location of the new underground storage tank are attached.

The removal operation for this tank is scheduled for Tuesday, October 31, 1995. A closure report will be submitted at a later date.

If you have any questions, please contact me. Thank you.

Ola Balogun, PE

### 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 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMATION 7 PERMANENTLY CLOSED ON SITE ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CLOSURE 8 TANK REMOVED
DBA OR FACILITY NAME WHERE TANK IS INSTALLED:
1. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN
A. OWNER'S TANK I. D. # UN Known B. MANUFACTURED BY: Unknown
C. DATE INSTALLED (MO/DAY/YEAR) UNKnown D. TANK CAPACITY IN GALLONS: 25-30 gallyng
II. TANK CONTENTS IF A-1 ISMARKED, COMPLETE ITEM C.
A. 1 MOTOR VEHICLE FUEL 4 OIL 8. C. 1 REGULAR UNLEADED 4 GASAHOL 7 METHANOL 2 PETROLEUM 80 EMPTY 1 PRODUCT 10 PREMIUM UNLEADED 5 JET FUEL 5 JET FUEL 95 UNKNOWN 2 WASTE 2 LEADED 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 1 DOUBLE WALL 3 SINGLE WALL WITH EXTERIOR LINER V95 UNKNOWN  SYSTEM 2 SINGLE WALL 4 SECONDARY CONTAINMENT (VAULTED TANK) 99 OTHER
B. TANK MATERIAL S CONCRETE S POLYVINYL CHLORIDE TO GALVANIZED STEEL S FIBERGLASS A STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC TO GALVANIZED STEEL S FIBERGLASS S TANK S 100% METHANOL COMPATIBLE W/FRP S UNKNOWN S OTHER
C. INTERIOR UNING  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 1 POLYETHYLENE WRAP 2 COATING 3 VINYL WRAP 4 FIBERGLASS REINFORCED PLASTIC PROTECTION 5 CATHODIC PROTECTION 91 NONE 95 UNKNOWN 99 OTHER
E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR)
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 A U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC)A U 4 FIBERGLASS PIPE  CORROSION A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP  PROTECTION A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 90 OTHER
D. LEAK DETECTION 1 AUTOMATIC LINE LEAK DETECTOR 2 LINE TIGHTNESS TESTING 5 INTERSTITIAL 99 OTHER
V. TANK LEAK DETECTION
1 VISUAL CHECK 2 INVENTORY RECONCILIATION 3 VADOZE MONITORING 4 AUTOMATIC TANK GAUGING 5 GROUND WATER MONITORING 5 TANK TESTING 7 INTERSTITIAL MONITORING 91 NONE 95 UNKNOWN 99 OTHER
VI. TANK CLOSURE INFORMATION
1. ESTIMATED DATE LAST USED (MO/DAY/YR)  2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING  GALLONS  3. WAS TANK FILLED WITH YES NO INTERPRETATION OF INTERPRETAT
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT
APPLICANTS NAME DOUGLAS Johnson Olyphe Alm For Cal. DOT 10-30-95
LOCAL AGENCY USE ONLY THE STATE LD. 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 WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



#### COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY  1 NEW PERMIT  3 RENEWAL PERMIT  5 CHANGE OF INFORMATION  7 PERMANENTLY CLOSED ON SITE  ONE ITEM  2 INTERIM PERMIT  4 AMENDED PERMIT  6 TEMPORARY TANK CLOSURE  8 TANK REMOVED
DBA OR FACILITY NAME WHERE TANK IS INSTALLED:
I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN
A. OWNER'S TANK I.D.# UNKNOWN B. MANUFACTURED BY:
C. DATE INSTALLED (MODAYMEAR) UNKNOWN D. TANK CAPACITY IN GALLONS: 300, 4000
II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.
A. 1 MOTOR VEHICLE FUEL 4 OIL 8. C. 12 REGULAR UNLEADED 4 GASAHOL 7 METHANOL 15 JET FUEL 5 JET FUEL 6 AVIATION GAS 14 JET FUEL 5 JET FUEL 6 AVIATION GAS 15 JET FUEL 7 METHANOL 15 JET FUEL 7 JET FUEL
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 APPLES IN BOX D AND E  A. TYPE OF
(Primary Tank)
C. INTERIOR LINING  5 GLASS LINING  6 UNLINED  95 UNKNOWN  99 OTHER  IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL?  YES NO
D. CORROSION 1 POLYETHYLENE WRAP 2 COATING 3 VINYL WRAP 4 FIBERGLASS REINFORCED PLASTIC PROTECTION 5 CATHODIC PROTECTION 91 NONE 95 UNKNOWN 99 OTHER
E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR)
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 90 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 A U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE  CORROSION A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP  PROTECTION 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 MTERSTITIAL 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 5 UNKNOWN 99 OTHER
VI. TANK CLOSURE INFORMATION
1. ESTIMATED DATE LAST USED (MO/DAY/YR)  2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING GALLONS INERT MATERIAL?  3. WAS TANK FILLED WITH YES NO
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT
APPLICANTS NAME (PRINTED & SIGNATURE) FOR CALTRANS Victor Sacaran 7-5-95
LOCAL AGENCY USE ONLY THE STATE LD. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW
STATE I.D.# COUNTY # JURISDICTION # FACILITY # TANK #
PERMIT NUMBER PERMIT APPROVED BY/DATE PERMIT EXPIRATION DATE

#### ALAMEDA COUNTY

#### HEALTH CARE SERVICES



AGENCY DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION 1131 HARBOR BAY PKWY., #250 ALAMEDA CA 94502-6577 CC4530

} ]	HAZARDOUS MATERIALS RELEASE AND NOTIFICATION REPORT (H&SC 25180.7) EMERGENCY RESPONSE
	INFORMATION RECEIVED BY: Shiele, A. Sincil Susan theo was noted.  DATE: 10/19/95 TIME: 10:00 (By OIA)
<u>.</u>	INCIDENT LOCATION: 888-Cedae St. CITY: OAKland ZIP: 94607
1	DATE OF INCIDENT: 10/15/95  REPORTED BY: 0/A  AGENCY: 0/S/S ENVIRONMENTA  ADDRESS: 1504 - Frant-lin St 3040  CONTACT: Same  PHONE: Same
5	TYPE OF DISCHARGE: ['] Discharge from vehicle License Plate No.  Manifest/Shipping Information:  Abandoned Material [] fixed facility  Name: // Address:  City: // Affand fac) Zip Code:  [] Other (specify)
6	ESTIMATED QUANTITY DISCHARGED: Size of Tank 250gal about 130pill QUANTITY THREATENED TO BE RELEASED: 80 gallon seliment.
7	MATURE OF MATERIAL: [] Solid [ Liquid [ ] Gas [ ] Powder [ ] Granular [] Radioactive [ ] Other Chemical Name: Common Name:
8	HAZARDOUS PROPERTIES: [ ] Corrosive [ ] Ignitable [ ] TOXIC [ ] Reactive
9	· · · · · · · · · · · · · · · · · · ·
.0	WEATHER CONDITIONS: Sunny & Windy  NUMBER OF INJURED PERSONS REQUIRING HOSPITALIZATION: Names and Addresses of Hospitals Utilized:
	<u> </u>

PERSONS PRESENT AT SCENE:	A service of the serv
Name: Affiliation:	A Thirty Control of the Control of t
em in a c	Phone:
Jett Local Operator	45/7-27//
	<del>- 4.5 - 738-</del> 415
RESPONSIBLE PARTY:	1
Name: CAL TRAUS-Victor Phone: 2 Address: 1545 Willowsk SAIOTOR Phone: 2	286-1366
EVIDENCE COLLECTED (Samples) photographs, etc.)	
CLEAN-UP ACTIONS: Still there-will class - will	on 10/20/95
Names and Addresses of Persons Doing Clean-up: # 17	25 10 21 25
OB ISOSW OIA	to be a comment of the
722	Carl appearant & got function
1 6	ansal a spice
Description of Clean-up Actions:	<del>-</del>
TIME INCIDENT CLOSED:	
ELAPSED TIME:	
[ ] DISCHARGE NOT TO BE NOTIFIED:  Unlikely to Cause Substantial Injury to Public I  Public Knowledge Orgoing Criminal Investigs  Permitted Discharge Other	Health & Safety
[ ] DISCHARGE TO BE NOTIFIED: Factors Determining That This Hazardous Waste Dis Potential Discharge Is Likely To Cause Substantia Public Health Or Safety:	scharge Or al Injury To The
NOTIFICATION:	
Board of Supervisors	
Health Officer	
Alameda County Press Room	
Reporting Agency or Individual	:
i seems of individual	
by copy of this report to the above listed agencies are hereby submitting this information on behalf of employees of the Department of Environmental Health, Maction 25180.7, Health & Safety Code. The informations report is based upon the best available information report was completed.	all designated , according to
Compector's Name:	Date:
**spector's Signature:	
	······································

#### RAFAT A. SHAHID, Assistant Agency Director

ALAMEDA COUNTY
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577 CC4530

	HAZARDOUS MATERIALS RELEASE AND NOTIFICATION REPORT (H&SC 25180.7) EMERGENCY RESPONSE
1	INFORMATION RECEIVED BY: Sholen M. Simil
	DATE: 10130195 TIME:
2	CITY: DAKland ZIP: 94607
3	DATE OF INCIDENT: 10 28 95 TIME OF INCIDENT: 10 Am
4	
	ADDRESS: 1504 FRATILATERY CITY, ZIP: DA Hand 94612-
	TELEPHONE: 451-5772 CONTACT: OIA
	PHONE: 451-5772
5	TYPE OF DISCHARGE:
	[ ] Discharge from vehicle License Plate No
	Manifest/Shipping Information:
	Name: Salvent [] fixed facility reducest.  City: OALland Zip Code: 94607
	Name: Dolvent Address: 188 - Cecce St.
	city: OAkland Zip Code: 94607
	[] Other (specify)
6	[] Other (specify)  ESTIMATED QUANTITY DISCHARGED: 25 gal/ estimated   gal spill  QUANTITY THREATENED TO BE RELEASED: 1901
7	NATURE OF MATERIAL:
	[] Radioactive [] Other
	[] Solid [X] Liquid [] Gas [] Powder [] Granular [] Radioactive [] Other Chemical Name: Solvent (Gild+one Common Name: Solvent
8	HAZARDOUS PROPERTIES: [ ] Corrosive [ ] Ignitable [ ] TOXIC [ ] Reactive   Other
9	HAZARDOUS MATERIAL WAS RELEASED TO:  [ ] Air [ ] Storm Drain [ ] San Francisco Bay [ ] Sanitary Sewer  [ ] Other Natural Waterway (creek, lake, reservoir) [ ] Groundwater  [ ] Groundsurface (Soil), road, etc.) [ ] Other (specify)
10	WEATHER CONDITIONS: Secret
i1	NUMBER OF INJURED PERSONS REQUIRING HOSPITALIZATION: Names and Addresses of Hospitals Utilized:

PERSONS PRESENT AT SCENE: Name:	(EESS)	
	Affiliation:	451-577Z
Jeff Hocka	Deecon	455-738-1115
RESPONSIBLE PARTY:		none: 286-1366
EVIDENCE COLLECTED (Sample	photographs,	etc.)
		S (escavating the Soil)
Names and Addresses of Per	sons Doing Clean-	up:
Description of Clean-up Ac	tions: he Soll	
TIME INCIDENT CLOSED:	ON GOING	
ELAPSED TIME:		-
[ ] DISCHARGE NOT TO BE NO Unlikely to Cause Subsequent Public Knowledge Permitted Discharge	tantial Injury to Ongoing Criminal Other	Public Health & Safety Investigations
[ ] DISCHARGE TO BE NOTIFI Factors Determining Tha Potential Discharge Is Public Health Or Safety	t This Hazardous	Waste Discharge Or ubstantial Injury To The
NOTIFICATION:  Board of Supervisors  Health Officer  Alameda County Press R  Reporting Agency or In	oom dividual	
By copy of this report to are hereby submitting this employees of the Departmen Section 25180.7, Health & this report is based upon the report was completed.	the above listed information on b t of Environmenta Safety Code. The the best availabl	I Health, according to information submitted in e information at the time
Inspector's Name: Inspector's Signature:		Date:

the has spoken to Susan Augo.

### **APPENDIX A3:**

## ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH UST REMOVAL REPORT

white -env.health y ellow -facility pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

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

### **Hazardous Materials Inspection Form**

11, 111

Site ID # Site Name CAL TRANS FORMER Today's Date 10, 20, 95
Site Address 888 CEDAR STREET
City OAKLAND Zip 94608 Phone
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories:
I, Haz. Mat/Waste GENERATOR/TRANSPORTER II. Hazar dous Materials Business Plan, Acutely Hazar dous Materials
* Oakland Fire Dut - not available requested ACDEH to ordered tent's
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
comments: 2 USIS Removed: TANK'S Hanifest=(95592816 contents)
#1 TANK (diesel, anex 1000 gal.) Steel that aniened
corroded hale at the battom (Some Tipuid driving).
LEL= 01. Oa = (15% bottom) & 4.2% tope
One sail sample collected from each end of the tank . (agrid.
850.
#2 TANK (garaline; agrox storagal) steel took anyward
corroded: Some yetting, no obvious held.
LEL = Q.D'/0 '020 = 0,6 10 MTBE willer added an
taralt analytes One Sail sample Collected fr. lack end?
The Yank, & aprox. & ft bgs).
Stockailed sail generated during the removal of the Lank
muet be characterized for disposal.
The area of the powner tanks will be part of the 60 ft
of cavation as the Cyples reconstruction. Situated
over of cavation will be conducted around the task. Called
Verefication son sample much be collected (Schedule with the
Contact OLA BALOGUN 11, 111
Title Engineer Inspector SUSAN L. HUGO
Signature Signature Such 7. Hera

white -env.health yellow -facility pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form
CAL TRANS

II, II

Site ID #4047 Site Name tome tine Station #3 Today's Date 1000,95
Site Address 727 PINE STREET
City 6 AKLAND Zip 94/07 Phone
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories:  I. Haz. Mat/Waste GENERATOR/TRANSPORTER
Hazar dous Materials Business Plan, Acutely Hazar dous Materials
III. Under ground Storage Tanks
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
Comments: Junk's Hauber = Erickson #616258 94951
JUST removed Jank's manifest = 955 92442
1000 gal fiberglass - dusil
LELU-01. 02 = 7.0%.
Oakland Fire Left (Inspector Silvery Cody) not fileer required
The ACTEH to oversee tanks beings.
The tank appeared to be in good shape.
one Soil Sample Collected for each end of the tank.
a monitoring well was located near the teck area.
tockpried Soil generated from the tack's namous muce
the hereelinged for disposal.
The discenser was removed. One sail saught unestimenth
Esangle collected ( one we so him 197).
North soil should around to have strong ascoloration
South Sail Sange Canada not for have the a discoloration
Conepared to noted sample:
Contact OLA BALDGUN 11, 11
Fig. 500
Signature Signature Signature

### white -env.health yellow -facility pink -files

# RLAMEDA COUNTY, DEPARTMENT OF SENUTRONMENTAL HEALTH

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

- 11, III

Hazardous Materials Inspection Form

Site ID # 6/2 Site Name Thony Hon Wash Today's Date 16/23/95
Site Address 488 Cedar Streat
0 10 0 1-0 0 10 0 1
city Oakland Zip 94 20 to probe ( ) w
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories:  I. Haz. Mat/Waste GENERATOR/TRANSPORTER  II. Haz. Mat/Waste GENERATOR/TRANSPORTER
Hazar dous Materials Business Plan, Acutely Hazar dous Materials
III/Under ground Storage Tanks . Solver Stark
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
comments: On site for removal of ~ 250 gallow UST
encountered during Completion percesses. Tok Contral.
have preverebly leaked from site del to retron!
of balkoe. There is a deliner of liqued than facture
of the UST) in the pet - Soudial Phlorography laken
Af area - Took let = B. Tent fracture therefor walls
to west & Con
Note aumatu Odor Noved in area of tent
Keauel action
- Sumple under tank in closest proximal to
- Surple for BTFX, Solverts Waste TOG, 7PH, CAM 17 crota
- Sample Woder/Deared in streng the Some
- sand rosults to this office of Swan Huce ( 2 weeks
- Smole - Stock Dilo Soils According to TRI Records guillies
- Cover/beim stockplet Soils =
= Rambure liqued from took (and Pit 16 Possible.
- PROVIDE Manifest for the TANK (Copy)
- Provide manifast for liquid Remixed from Pi+
- Submit Lineal Report of Utinitings - 30 days
Contact Ola BAlogun
F-16-200 (15. 2 Me
Signature Signature Signature
Cigrature Signature

white -env.health yellow -facility pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

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

### Hazardous Materials Inspection Form

II, II

Site ID # 6/2 Site Name Choeney and Today's Date 10/23/75	
Site Address888 Coolar St	
City Oakland Zip 94607 Phone	
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?	
Inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER	
II. Hazar dous Materials Business Plan, Acutely Hazar dous Materials	
_L_III. Under ground Storage Tanks Perrovel	
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)	,
1 row Kemaray	$\sim \mathcal{C}$
Took was Removed under Level B' Backer	•
actual Workey were as Level C' & Requestry	
· Mondoney took place resine (2) Two PIDS.	
O VOCS	_4
TANK Contacted Contents A 7000 PM - Du PID	
Further innerron with Dry lee took place	
- TANK TO be weapped-ton transport/dsposil	
by tecksoff.	
manded # Not onsite ust	
manfeet # Not onsite yet	
1 20 Aug town the	
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Contact OLA BALOGUN	i, <u>Ji</u>
E 1 = 6 = 6	
Mb - 7 d	
Signature Signature	000000000

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JUI	ഗ

### APPENDIX B:

### TANK DISPOSAL MANIFESTS

UNIFOR	M HAZARDOUS	1. Generator's US El	PA ID No.			2	Page 1 Info	socramento, Cormotion in the shad
WAST	E MANIFEST	CIARGO	1019151910	29 9	2 414	プラ	0 9	at required by Fede
1545 (	one (STO) Z86 -	HARRAIND CA	ATT CT (	7				<b>. 13</b> 59
5. Transporter 1	Company Name kson Inc	6	. US EPA ID Numb	- 34 2 2			7.	1253
7. Transporter 2	Company Name	c. <u>C</u>	US EPA ID Number	766	31912	11		· (-).
Ericks		10.	US EPA ID Numbe	" ************************************	August 1			
171 11.577 11.5	r Blvd. vd.CA. 94801	p	A D O O O	14 16 16	3 9 2			. [
11. US DOT Descr	iption (including Proper Sh	ipping Name, Hazord Cle	oss, and ID Number	1.16	No. 1/ R	2:47		Unit 1/Vol Vocas
2	WA Hazardkus M			1		1.5		
Waste B	impty Storage	Tank.	-	を表	0031	P.04	DIOIDE	
R				-				1 5x2+-
-		7	1	1.25	11.70	<b>沙森</b> 营、	3	later to
	2					開煮		7XQ
4				2.6				100,00
	Property Store Tank (#) Ide Per 100			Pillis			12/5	
V.G.S.1	ng Instructions and Addition way from sour- f.'s 24 Hr. Co	ces of ignitiontact Name.	5 7 5		hone	* 3	orking (	
16. GENERATOR packed, marke  If I am a larg seconomically p threat to huma	CERTIFICATION: I here ad, and labeled, and are is a quantity generator, I co practicable and that I have an health and the environment method that is availa-	by deciare that the contern all respects in proper con criffy that I have a progra a selected the practicable ment, OR, if I am a small	nts of this consignment andition for transport or in place to red method of treatment quantity generator	by highway a by highway a uce the volument, storage, oc. , I have made	d occurately a coording to ap a and facility disposal corre a good faith	scribed above in picable internal and a waste persently available to affort to manion	ny proper shipp onal and natio sted to the de- me which min	ing name and are di nal government requi prec I have determine mizes the present a peneration and selec-
Printed/Types Nan	DREW NO	PRRIS	Signature	h	7	1		Month Doy
Printed/Typed Non	Steve Fle	יאוואק	Signature	two	1/2	271	\$.**	Month Day
Printed/Typed Nan	Acknowledgement of Receive	pt of Maserials	Signature	T 133	1000	MAN THE	41-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Month Day
19. Discrepancy in	dication Space			· 持有	<b>第</b> 页钟	數別語情的 數值的198	en fre	37 17
				100	マス 大学	WILLIAM THE STREET, S. C. PROPERTY	Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

DO NOT WRITE BELOW THIS LINE.

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this

	UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest Document WASTE MANIFEST C A P 6 8 8 9 2 9 8 2 9 9 2 4	7   4	2 Page 1	CALTOA	the shaded area by Federal law, K CA93TI
	3. Generator's Name and Mailing Address CAL TRANS 1545 WILLOW ST. ATTN: ANDREW NORRIS DAKLAND, CA 94607-1525 4. Generator's Phone 510) 286 - 1367	o de	410	V 95	(59)2/
	5. Transporter 1 Company Name 6. US EPA ID Number  ERICKSON INC. C   A   D   Ø   Ø   9   4   6   6   3   9   2	Same In			///
	7. Transporter 2 Company Name 8. US EPA ID Number	Sandy () Typerou			
	9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD. RICHMOND, CA 94801  CAPBBRABA		(51) (51)	( ) ( )	_1_1 7.5
	US DOT Description (including Proper Shipping Name, Hazord Class, and ID Number)     No.	toiners Type	13. Total Quantity	14. Unit ES	() ()
GE	RQ. HAZARDOUS WASTE SOLID, N.O.S. (METHYLENE CHLORIDE, ACETONE), 9, NA 3077, III	CIM	236	· 公安 &	) 
RAT		N. S.		7	nes i
o I					7 7€-
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State of the second	// ),		©	7 7.	
	5. Special Handling Instructions and Additional Information  (SUSTRICTED TOWNS)  DE JOB: 14:51474 1465		24 HR (51	TRANS DI EMERGEI (8) 286 -	NCY CONT SPATCH NCY PHON 4311
	6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately packed, marked, and tobeled, and are in all respects in proper condition for transport by highway according to a H I om a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity practicable and that I have selected the accordinate.	y of waste g	emerated to the	degree I have	determined to b
	threat to human health and the environment, OR, If I am a small quantity gentrator, I have made a good fail waste management method that is available to me and that I can afford.  Signature  Signature	th effort to n	ninimize my wo	ste generation a	Day
1	Typed Name TA COBC Signature	1	特力量	# Month	2319
E	8. Transporter 2 Acknowledgement of Receipt of Materials rinted/Typed Name Signature		i. Maria	Month	Day 9-Y
**	9. Discrepancy Indication Space		1		
†	2. Pacing Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as not inted/Typed Name  Signature	ted in Item 19		Month	Day
•	DO NOT WRITE BELOW THIS LINE.	ted in Item 19			Month w: GENER.

f	UNIFORM HAZARDOUS	1. Generator's US EPA ID N	o. Monife	est Document No.	2. Page 1	Information in the shade
	WASTE MANIFEST	C A P 6 0 0 9 12	19 10 12 19 91	2 4 7	9 601 1	is not required by Federal CALTCYP CA
l	3. Generator's Name and Mailing Address	No.			ne Manifes Documen	t Number 与一种原则的
	CALTRANS	SITE:	CYPRESS B 800 CEDAR ST		Generalização 2	95592
	DAKLAND CA 94607-152		(ACCOMPANIAM)	1	V LANGE	
	5. Transporter 1 Company Name	6. US EP	A ID Number	Ga Exc	e Transporter ID	0/3000
	ERICKSON INC.	C  A  D	1 A   A   A   A   A   A	7 10 12 12/16	priboties   poote	(519) 235
	7. Transporter 2 Company Name		10 Number		Transporters ID	(211) (232
		- X 1111		2 1	sporter Thone	\$1.00 PER 100 PER 2018
	<ol> <li>Designated Facility Name and Site Address ERICKSON INC.</li> </ol>	10, US EPA	A ID Number	- A	te Fooligy a IQ	
	255 PARR BLUD	1			加圖圖圖	
	RICHMOND, CA 94801	LAD	0094666	5 9 2 M	510)	233 + 1393 *
	11. US DOT Description (including Proper Shipp	ping Name Hayard Class and	(D Number)	12. Containers	13. Total	14. Unit 115 - 225 201
	The state of the s		SANTAL SA	No. Type	Quantity	Wt/Vol U Worste Nu
	" HAZARDOUS WASTE SOL METHYL ETHYL KETONE ERG # 31	1, 9, NA 3077.	III',	·	A SE SE	1. S.
	b.	TAN L .	1	OF THE	100	P BA/Oher
	9	1 ·	43	5-4 L		State Alle
	•	,	1			EPA/Other 3
	c	- 14	1	- 1	134	State Res
		1.3	57	120	额	EPA/Other
1	d.		- L	111.	( ) I	1200
ı		See Total				Stole Carry
ŀ	1.445	· · ·	1 0	1.1	湯(1)	EPA/Other
1	J. Additional Descriptions for Materials Listed A.  11a - EMPTY STORAGE TAN	of contract		La lia	fling Sides for Was	es Listed Aboye
1	EPA/OTHER: F004,F005	A THE NA-	81 28)			
1			<b>建筑</b>			d. Starting Starting
Ì	15. Special Handling Instructions and Additional	Information	点件, 對 補關 [編	A SIMA	機體、線	
		Phys.			24 HR	EMERGENCY C
l		<i>\$.</i>		Same than		
ŀ	QE P.O.: DE	JOB:		1	(51	. EMERGENCY PI 0) 235 - 1393
ı	<ol> <li>GENERATOR'S CERTIFICATION: I hereby pocked, marked, and labeled, and are in all</li> </ol>	declare that the contents of this	consignment are fully and	accurately describ	ed above by proper	shipping name and are clas
ı	E III SOVERNO STREET		manage of manage of	corong to applicat	ne enemononal and	national government regula
ı	If I am a large quantity generator, I certify economically practicable and that I have set	y that I have a program in pla lected the procticable method o	oce to reduce the volume of treatment, storage, or	and texicity of we	the generated to the	degree I have determined
L	economically practicable and that I have set threat to human health and the environment waste management method that is available	t; OR, if I am a small quantity to me and that I can afford.	generator, I have made	a good faith et a	minimize my wa	ste generation and select t
	ANDREW NORKI	Signat	ure /	12	-46	Month Day
t	17. Transporter 1 Acknowledgement of Receipt of	of Moterals · · ·	11. 11	100	Car	1101311
	Printed/Typed Name	Signat	ure // //	11		Month Day
-	18. Transporter 2 Acknowledgement of Receipt o	f Materials	Vaul 1	acin		103V
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	19. Discrepancy Indication Space			***	. 2	
1	AND THE PROPERTY OF THE PROPER			- AN - 2	9	
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3	20. Facility Owner or Occurrent Continue			***		
Ü	<ol> <li>Facility Owner or Operator Certification at re Printed/Typed Name</li> </ol>	v Signot	overed by this manifest ex ure	cept as noted in the	m 19.	Me di a
۹				- E		Month Day
					20.00	11 TO 15 Oct.

DO NOT WRITE BELOW THIS LINE.

**9TRZEGGE** 

#### **APPENDIX C:**

APPENDIX C1: DIESEL AND GASOLINE UST CHAIN- OF-CUSTODY AND

LABORATORY ANALYTICAL REPORT

APPENDIX C2: SOLVENT UST CHAIN-OF-CUSTODY AND LABORATORY

ANALYTICAL REPORT

APPENDIX C3: STOCKPILE CHAIN-OF-CUSTODY AND LABORATORY

ANALYTICAL REPORT

### **APPENDIX C1:**

## DIESEL AND GASOLINE UST CHAIN- OF-CUSTODY AND LABORATORY ANALYTICAL REPORT

CLIENT			-	CHAIN C					CD										•				
NAME: 0615 ADDRESS: 1504 F Oak In PHONE NO. 501461	ranklin St -5772 FAX NO.	4.1.6 5.10/4	3104 12 51-5	REQUI DA: PA:	re: 0	OR AI 20/9 0f	NALYS <u>S</u>	IS					C	K	<u>'</u>	, 1 F	inviro 177 ( Noosai Tek	onme Quarry nton, ( 510-8		Servi Suite 566 88			ļ
PROJECT NAME: C	YATESA B			•		····																	
SAMPLER NAME/SIGNATUR	<u>₹</u>	<u> </u>	•		TURN AF	ROUND TI							AN/	LYS	ES	REQI	JIRE	D .					
	•		en de succes		RUSH	ر. در ا		_	M8015 G/	100/	9020/602	8090/208	1624	23	CAM Metals	9							
SAMPLE NUMBER	SAMPLING DATE/TIME	 440	PRESER- VATIVE	CONTAINER SIZE/TYPE	SAMPLE WATER	SOIL	OTHER	418.1	<u>8</u>	109/0108	9020		8240/624	8270/625	<u>₹</u>	٤							,
GAS- W	10/20			6"x2"5 we		<u>~</u>	·		G		4		≰	_		$\checkmark$							<u> </u>
GAS- E	1	<u> </u>				/			G		_		4	٠	_	$\leq$					<u> </u>		$ldsymbol{f eta}$
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5104515773

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**Environmental Services (SDB)** 

October 23, 1995

Submission #: 9510294

OGISO

Atten: Ola Balogun

Project: CYPRESS B

Received: October 20, 1995

re: 5 samples for Diesel analysis.

Method: EPA 3550/8015M

Sampled: October 20, 1995

Matrix: SOIL

Extracted: October 20, 1995

Run: 8998-K

Analyzed: October 20, 1995

Spl #	Sample ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK BI RESULT (mg/Kg)	ANK SPIKE RESULT (%)
107282 107283	DIS-S	1300 N.D.	1.0 5.0	N.D. N.D.	93 93
107284 107285 107286		Unknown hydrocarbons 1400 920 N.D.	in the Diesel 1.0 1.0 1.0	range, conc.= N.D. N.D. N.D.	= 51 mg/Kg. 93 93 93

Kayvan Kimyai

Chemist

Ali Kharrazi

Organic Manager

### EPA METHOD 418.1 TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

222222222			
CLIENT:	Ogiso Environmental	DATE COLLECTED:	10/31/95
PROJECT:	CYPRESS B	DATE PECETVED.	10/21/05
BATCH NO.:	95J090	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:	10/31/32
MATRIX:	SOIL	DATE SAIRACIED:	10/31/35
CONTINIA:	2017	DATE ANALIZED:	11/01/32

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	DILUTION FACTOR	RL (mg/kg)
2T7-7-0 2T7-7-E 2T9-7-W 2T10-7-W 2T12-6-0 2T13-6-0 2T14-6-W MBLK1S	J090-13 J090-14 J090-15 J090-16 J090-17 J090-18 J090-19 TRK001SB	39 ND 13 ND 540 22 30 ND	1 1 1 1 2 1 1	10 10 10 10 20 10 10

RL: Reporting Limit

**Environmental Services (SDB)** 

October 23, 1995

Submission #: 9510294

OGISO

Atten: Ola Balogun

Project: CYPRESS B

Received: October 20, 1995

re: One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.

Method: EPA 5030/8015M/8020

SampleID: GAS-E

Sample #: 107281

Matrix: SOIL

Sampled: October 20, 1995

Run: 8996-4

Analyzed: October 20, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
GASOLINE BENZENE TOLUENE ETHYL BENZENE XYLENES MTBE	27 N.D. N.D. 0.10 0.050 N.D.	10.0 .050 .050 .050 .050	N.D. N.D. N.D. N.D. N.D. N.D.	97 110 109 113 103

Analyst

Ali Kharrazi

Organic Manager

Environmental Services (SDB)

October 23, 1995

Submission #: 9510294

OGISO

Atten: Ola Balogun

Project: CYPRESS B

Received: October 20, 1995

re: One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.

Method: EPA 5030/8015M/8020

SampleID: GAS-W

Sample #: 107280

Matrix: SOIL

Sampled: October 20, 1995

Run: 8996-4

Analyzed: October 20, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
GASOLINE BENZENE TOLUENE ETHYL BENZENE XYLENES MTBE	N.D. N.D. N.D. N.D. N.D. N.D.	1.0 .005 .005 .005 .005 .005	N.D. N.D. N.D. N.D. N.D.	97 110 109 113 103

Survider Sidhy.

Analyst

Ali Kharzazi

Organic Manager

#### **APPENDIX C2:**

## SOLVENT UST CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORT

### - 1104-20 -106540

### CHROMALAB, INC.

Environmental Services (SD8) (DOHS 1094)

c/L 2441

### Chain of Cust

DATE	10/15	95	PAGE	1	0
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	1	) A B	4	- A !										ДN	ALYS!	S REP	OHT								
PROJ. COMI	PANY	G150	mul	un <u> </u>		3)	(5030, 8015) 02, 8020)	EPH ), 8015)	IOMATICS 8020)	ALOCARBONS	ANICS . 324.2)	5_ACIDS 9270, 525)	CREASE . E+F)			A 418.1)		r, Pb, Zn, Ni	17)	CUTANT	F	31	J.	S	
9	AMPLE ID.	DATE	5 (0) 4 H	(PH イラ1 〜 ヨ ら1 <b>- 37</b> かん ラフロ MATRIX	IONE NO.1 701 8 NO.1 23 PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Casoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURCEABLE AROMATICS BTEX (EPA 602, 8020)	PURCEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORCANICS (EPA 624, 8240, 324.2)	BASE/NEUTRALS ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & CREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080	PESTICIDES (EPA 608, 8030)	TOTAL RECOVERABLE HYDROCARBONS (EP		LUFT METALS: Cd, Cr, Pb,	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)			
#	:	10/15	645	Soil							1	J					·		J						r
4	+2	1		Soil	·						7	J		<b></b>					7			_			
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PROJECT N	OJECT INFORM MAME Tams Cyr)		TOTAL	NO. OF CON	E RECEI	·)	3	RELIN	OVISHI E	EO BY	<u>_</u>	54	إحدا	. REL	INQUIS	HEO B	4			2. P	ELINOU	ISHED	BY		
PROJECT N	04-19:		<u> </u>	SPACE				19IGNA		84	<u>ی</u>	1	(TIME)		NATURE	)			(TI	ME) (S	RINATUR	E)			_
P.D. 8				GOOD COND		<u> </u>		PROVID	DHAM	GIS		4104	DAIE!	PAI	NI ED NA	MF)			(DA	ITED PA	RINTEDI	YAME			
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SPECIAL	INSTRUCTIONS/CO	OMMENTS.	ASA	( P				_	VED BY		1	1 .	1 '449_		ENED	BY				5 WE	CEIVE	BY (L/	ABORAI	IORY)	
			<u>_</u>				ı	(SIGNAL	tuPE)	75	رام.		1490.	(5)(0)	(ATURIE)		<u> </u>	<u> </u>	Un	(E) (SA	GNATUR	F)		<del></del>	
			161	tt 1≠ p	DIS1B	ΓE		PERMI	6 mg	1	lab		(A) 9 (D) (E)	Ø FRAN	HED NA	ME)			A(J)	in Pi	WITED A	Win -			

**Environmental Services (SDB)** 

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Received: October 15, 1995

Project#: 04-192214 re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

SampleID: #1

Sample #: 106588

Matrix: SOIL

Sampled: October 15, 1995

Run: 8925-0

Analyzed: October 16, 199

Analyte	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
ACETONE	(ug/Kg)	(uq/Kq)	(ug/Kg)	(%)
BENZENE	1900	10	N.D.	
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	103
BROMOFORM	N.D.	5.0	N.D.	703
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	
CHLOROETHANE	Ŋ.D.	5.0	N.D.	100
2-CHLOROETHYLVINYLETHER	N.D.	5.0 5.0	N.D.	
CHLOROFORM	N.D.	5.0	N.D.	🗥
CHLOROFORM CHLOROMETHANE	N.D.	5.0	N.D.	<b>W</b>
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHAND	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (Ctc)	N.D.	5.0	N.D.	110
1,2-DICHLOROETHENE (TDAME)	N.D.	5.0	N.D.	~ ~
T.Z"DICHIOROPRODAND	N.D.	5.0	N.D.	'
1,3-DICHLOROPROPENE (Ctc)	N.D. N.D.	5.0	N.D.	
TIDICALOROPROPENE (TOXAG)	N.D. N.D.	5.0	N.D.	
CIDIL BENZENE	N.D.	5.0	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	- <del>-</del>
METHYLENE CHLORIDE	10.D. 290	5.0	N.D.	<del></del>
4-METHYL-2-PENTANONE	N.D.	5.0 5.0	N.D.	
STYRENE	N.D.	5.0	Ŋ.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0 5.0 5.0	N.D.	
I EI KACHLOROETHENE	N.D.	5.0	N.D.	
TOLUENE	1900	5.0 5.0	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5.0 5.0	N.D.	113
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	N.D.	5.0 5.0	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	80
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	
TOTAL XYLENES	N.D.	5.0	N.D. N.D.	
$\Omega\Omega_2$ $V$	- · · · <del>-</del> ·	5.0	IV. D.	
Wed Keuchsol		11/1	VI./	
7		1/7/2	NO	

Oleg Nemtsov

Chemist

Ali Khaźrazi Organic Manager

Environmental Services (SDB)

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#: 04-192214

Received: October 15, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

SampleID: #2

Sample #: 106589

Matrix: SOIL

Sampled: October 15, 1995

Run: 8925-0 Analyzed: October 16, 199

		REPORTING	BLANK	BLANK SPIK
News Touch -	RESULT	LIMIT	RESULT	RESULT
Analyte	(ug/Kg)	(uq/Kq)	(ug/Kg)	(%)
ACETONE	3100	10	N.D.	
BENZENE	N.D.	5 <i>.</i> 0	N.D.	103
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE CHLOROETHANE	N.D.	5.0	N.D.	100
CHLOROETHANE	N.D.	5.0	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
CHLOROFORM	N.D.	5.0	N.D.	
CHLOROMETHANE	N:D.	5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	110
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0 5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS) ETHYL BENZENE	N.D.	5.0	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE	N.D.	5.0	N.D.	
WEARAINE CHTOKIDE	230	5.0	N.D.	
4-METHYL-2-PENTANONE STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	<b></b>
TETRACHLOROETHANE	N.D.	5.0	N.D.	
TOLUENE	N.D.	5.0	N.D.	
1,1,1-TRICHLOROETHANE	1200	5.0	N.D.	113
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	Ŋ.D.	5.0	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	,80
VINYL ACETATE	Ŋ.D.	5.0	N.D.	·
VINYL CHLORIDE	N.D.	5.0	N.D.	
TOTAL XYLENES	N.D.	5.0	N.D.	
	N.D.	5.0	N.D.	
VINYL ACETATE VINYL CHLORIDE TOTAL XYLENES  Cley Vecces		. 1/1	1///	
very racinsor		(Al	·Kb//	

Oleg Nemtsov

Chemist

Ali Kharrazi Organic Manager

Environmental Services (SDB)

October 16, 1995

Submission #: 9510202

Project#: 04-192214

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Received: October 15, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

SampleID: #3

Sample #: 106590

Matrix: LIQUID

Sampled: October 15, 1995 Run: 8925-0

Analyzed: October 16, 199

		REPORTING	Drawe	201 10, 177
	RESULT	LIMIT		BLANK SPIKE
Analyte	(ug/L)		RESULT	RESULT
ACETONE	660000	(ug/L) 10000	<u>(ug/L)</u>	(%)
BENZENE	N.D.		N.D.	
BROMODICHLOROMETHANE	N.D.	1000 1000	N.D.	103
BROMOFORM	N.D.	1000	N.D. N.D.	
BROMOMETHANE	N.D.	1000	N.D.	
METHYL ETHYL KETONE	3600	1000	N.D.	
CARBON TETRACHLORIDE	N.D.	1000		
CHLOROBENZENE	N.D.	1000	N.D.	
CHLOROETHANE	N.D.		N.D.	100
2-CHLOROETHYLVINYL ETHER	N.D.	1000	N.D.	
CHLOROFORM	N.D.	1000	N.D.	
CHLOROFORM CHLOROMETHANE	N.D.	1000	Ŋ.D.	
DIDDOMOGIII ODOMOTES SSS		1000 1000	N.D.	
1,1-DICHLOROETHANE	N.D.	1000	N.D. N.D.	
1,2-DICHLOROETHANE	N.D.	1000	N.D. N.D.	* -
1,1-DICHLOROETHENE	N.D.	1000	N.D.	130
CIS-1,2-DICHLOROETHENE	N.D.	1000	N.D.	110
1,1-DICHLOROMETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE 1,1-DICHLOROETHENE CIS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE CIS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE	N.D.	1000	N.D.	
1,2-DICHLOROPROPANE	N.D.	1000	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	1000	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	1000	N.D.	
ETHYLBENZENE	N.D.	1000	N.D.	<b></b>
2-HEXANONE	N.D.	1000	N.D.	
METHYLENE CHLORIDE	130000	10000	N.D.	
METHYL ISOBUTYL KETONE	N.D.	1000	N.D.	
STYRENE	M D	1000	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	1000	N.D.	
I E I RACHLOROETHENE	N.D.	1000	N.D.	
TOLUENE	60000	10000	N.D.	113
1,1,1-TRICHLOROETHANE	N.D.	1000	N.D.	113
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE	N.D.	1000	N.D.	
TRICHLOROETHENE	N.D.	1000	N.D.	80
TRICHLOROFLUOROMETHANE VINYL ACETATE	N.D.	1000	N.D.	
VINYL ACETATE	Ñ.D.	1000	N.D.	
VINYL CHLORIDE	N.D.	1000	N.D.	
TOTAL XYLENES	N.D.	1000	N.D.	 
	· <del>-</del> -			

Oleg Nemtsov

Dey Venton

Chemist

Ali Kharrazi Organic Manager

**Environmental Services (SDB)** 

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#: 04-192214

Received: October 15, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

SampleID: #1

Sample #: 106588

*Matrix:* SOIL

Extracted: October 16, 1995

Sampled: October 15, 1995

Run: 8914-A

Analyzed: October 16, 199

Analyte	RESULT	REPORTING LIMIT	RESULT	BLANK SPIKE RESULT
PHENOL	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
DIC/3 CUI ODODDUUT L DOLLA	N.D.	0.50	N.D.	
2-CHLOROPHENOL  1,3-DICHLOROBENZENE  1,4-DICHLOROBENZENE  BENZYL ALCOHOL  1,2-DICHLOROBENZENE  2-METHYLPHENOL  BIS (2-CHLOROISOPROPYL) ETHER  4-METHYLPHENOL	Ŋ.D.	0.50	N.D.	
1 3-DICHLODOBENZENE	й.р.	0.50	N.D.	79
1 4-DICHLOROBENZENE	Ŋ.D.	0.50	N.D.	
RENZYL ALCOHOL	й.Б.	0.50	N.D.	
1 2-DICHLODODENZEME	Й.D.	1.00	N.D.	
2-METHVI.DUENOI	N.D.	0.50	N.D.	
RIS(2_CULODOTCODDODATA DOUBD	N.D.	0.50	N.D.	<b>-</b> -
4-METHYLPHENOL	N.D.	0.50	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	Ŋ.D.	1.00	N.D.	
HEAVCAL OBODARAND	N.D.	0.50	N.D.	58
NITOODENGENE	N.D.	0.50	N.D.	
TODUCDONE	N.D.	0.50	N.D.	
2-NITDODUENOI	N.D. N.D.	0.50	N.D.	
2 A_DIMETUVI DURMOT	N.D.	0.50	N.D.	. <del>-</del> -
HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS(2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	
1 2 4-TPICULOPOPENTEND	N.D.	0.50	N.D.	
2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE	N.D.	0.50	N.D.	41
4-CHIODONNII TND	N.D.	0.50	N.D.	·
HEXACHI.OPODITES DIESE	N.D. N.D.	1.00	N.D.	
4-CHLOPO-3-METUVI DURNOI	N.D.	0.50	N.D.	
2-METHYLMA DUTUAT DATE	N.D.	1.00	N.D.	31
HEXACHI ODOCYCI ODENEAD TONO	N.D.	0.50	N.D.	
2 4 6-TRICULORORUMOT	N.D.	0.50	N.D.	
2 4 5 TRICHLOROPHENOL	N.D.	0.50	N.D.	
2,4,5-1RICHLOROPHENOL	N.D.	0.50	N.D.	
HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 2-NITROANILINE	N.D.	2.50	N.D.	
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	
ACENAPHTHYLENE	N.D.	2.50	N.D.	
	N.D.	0.50	N.D.	
3-NITROANILINE ACENAPHTHENE	N.D.	2.50	N.D.	
2,4-DINITROPHENOL	N.D.	0.50	N.D.	82
4-NITROPHENOL	N.D.	2.50	N.D.	
DIBENZOFURAN	N.D.	2.50	N.D.	
2,4-DINITROTOLUENE	N.D.	0.50	N.D.	
2,6-DINITROTOLUENE	N.D.	0.50	N.D.	
DIETHYL PHTHALATE	N.D.	1.00	N.D.	
STOREM ENTINEMED	N.D.	2.50	N.D.	

**Environmental Services (SDB)** 

October 16, 1995

Submission #: 9510202

page 2

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#: 04-192214

Received: October 15, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,

continued.

Method: EPA 3550/8270

SampleID: #1

Sample #: 106588

Matrix: SOIL Sampled: October 15, 1995

Extracted: October 16, 199

Run: 8914-A Analyzed: October 16, 199

Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mq/Kq)	BLANK SPIKI RESULT (%)
4-CHLOROPHENYL PHENYL ETHER FLUORENE	N.D.	0.50	N.D.	751
4-NITROANILINE	N.D.	0.50	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.50	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.D.	2.50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
HEXACHLOROBENZENE	N.D.	0.50	N.D.	
PENTACHLOROPHENOL	N.D.	0.50	N.D.	
PHENATHRENE	N.D.	2.50	N.D.	
ANTHRACENE	Ŋ.D.	0.50	N.D.	
DI-N-BUTYL PHTHALATE	Ŋ.D.	0.50	N.D.	
FLUORANTHENE	N.D.	2.50	N.D.	
PYRENE	1.3	0.50	N.D.	
BUTYL BENZYL PHTHALATE	1.3	0.50	N.D.	73
3,3'-DICHLOROBENZIDING	N.D. N.D.	2.50	N.D.	<del>-</del> -
BENZO (A) ANTHRACENE	N.D. 0.69	1.00	N.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	Ŋ.D.	
CHRYSENE	1.0	2.50	Ŋ.D.	
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	
BENZO (B) FLUORANTHENE	0.63	2.50 0.50	N.D.	
BENZO (K) FLUORANTHENE	N.D.		N.D.	
BENZO (A) PYRENE	1.3	1.00 0.25	N.D.	
INDENO(1,2,3 C,D) PYRENE	1.2	1.00	N.D.	
DIBENZ (A. H) ANTHRACENE	Ñ.D.	1.00	N.D.	
BENZ (G, H, I) PERYLENE	N.D.	1.00	N.D.	
		1.00	N.D.	<del></del>

Chemist

Ali Kharrazi Organic Manager

Environmental Services (SDB)

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#: 04-192214

Received: October 15, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

SampleID: #2

Sample #: 106589

*Matrix:* SOIL

Extracted: October 16, 195

Sampled: October 15, 1995

Run: 8914-A

Analyzed: October 16, 199

Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKI RESULT (%)
		0.50	N.D.	(3)
BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL	N D	0.50	N.D.	
2-CHLOROPHENOL	N D	0.50	N.D.	79
1,3-DICHLOROBENZENE	מ מ	0.50	N.D.	79
1,4-DICHLOROBENZENE	N D	0.50	N.D.	
1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE 2-METHYLPHENOL BIS(2-CHLOROISOPROPYL)ETHER 4-METHYLPHENOL	N D	1.00	N.D.	
1,2-DICHLOROBENZENE	N D	0.50	N.D.	
2-METHYLPHENOL	N D	0.50	N.D.	
BIS (2-CHLOROISOPROPYL) ETHER	M D	0.50	N.D.	
4-METHYLPHENOL	M.D.	1.00	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N D	0.50	N.D.	
HEXACHLOROETHANE	N.D.	0.50	N.D.	58
NITROBENZENE	N.D.	0.50	N.D.	₹ =
ISOPHORONE	N.D.	0.50	N.D.	
2-NITROPHENOL	N D	0.50 0.50	N.D.	
2,4-DIMETHYLPHENOL	N.D.	0.50	N.D.	
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.50	N.D.	
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	
1,2,4-TRICHLOROBENZENE	M.D.	0.50 0.50	N.D.	
NAPHTHALENE	N.D.	0.50	N.D.	41
4-CHLOROANILINE	יע.ט.		Ŋ.D.	
HEXACHLOROBUTADIENE	N D	1.00	N.D.	<del></del>
4-CHLORO-3-METHYLPHENOL	N.D.	0.50	N.D.	<del></del>
2-METHYLNAPHTHALENE	N.D.	1.00	N.D.	31
HEXACHLOROCYCLOPENTADIENE	N.D.	0.50	N.D.	
2.4.6-TRICHLOROPHENOL	N.D.	0.50	N.D.	<del>-</del> -
2.4.5-TRICHLOROPHENOL	N.D.	0.50 0.50	N.D.	
2-CHLORONAPHTHALENE	N.D.	0.50	N.D.	
2-NITROANILINE	N.D.	2.50	N.D.	<del></del>
DIMETHYL PHTHALATE	M.D.	0.50 2.50	N.D.	
ACENAPHTHYLENE	N.D.	2.50	N.D.	
3-NITROANTLINE	N.D.	0.50	N.D.	
ACENAPHTHENE	N.D.	2.50	N.D.	
2.4-DINITROPHENOI.	N.D.	0.50 2.50	N.D.	82
4-NITROPHENOL	N.D.	2.50	N.D.	
DIBENZOFURAN	N.D.	2.50	N.D.	
2.4-DINITROTOLUENE	N.D.	0.50	N.D.	
2.6-DINITROTOLUENE	N.D.	0.50 1.00	Ŋ.D.	
DIETHYL PHTHALATE	N.D.	1.00	N.D.	
BIS (2-CHLOROISOPROPYL) ETHER 4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE	N.D.	2.50	N.D.	

Environmental Services (SDB)

October 16, 1995

Submission #: 9510202

page 2

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#: 04-192214

Received: October 15, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

continued.

Method: EPA 3550/8270

SampleID: #2

Sample #: 106589

Matrix: SOIL

Extracted: October 16, 1999

Sampled: October 15, 1995

Run: 8914-A

Analyzed: October 16, 1995

Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
FLUORENE	N.D.	0.50	N.D.	
4-NITROANILINE	N.D.	2.50	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.50	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
HEXACHLOROBENZENE	N.D.	0.50	N.D.	
PENTACHLOROPHENOL	N.D.	2.50	N.D.	
PHENATHRENE	N.D.	0.50	N.D.	
ANTHRACENE	N.D.	0.50	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	2.50	N.D.	
FLUORANTHENE	N.D.	0.50	N.D.	
PYRENE	N.D.	0.50	N.D.	73
BUTYL BENZYL PHTHALATE	N.D.	2.50	N.D.	13
3,3'-DICHLOROBENZIDINE	N.D.	1.00	N.D.	- <del>-</del>
BENZO (A) ANTHRACENE	N.D.	0.50	N.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	2.50		
CHRYSENE	N.D.	0.50	N.D. N.D.	
DI-N-OCTYL PHTHALATE	N.D.	2.50		* =
BENZO (B) FLUORANTHENE	N.D.	0.50	N.D.	<del></del>
BENZO(K) FLUORANTHENE	N.D.		N.D.	<del></del>
BENZO (A) PYRENE	N.D.	1.00	N.D.	
INDENO(1,2,3 C,D) PYRENE		0.25	Ŋ.D.	
DIBENZ (A, H) ANTHRACENE	N.D.	1.00	N.D.	
BENZ (G, H, I) PERYLENE	N.D.	1.00	N.D.	<del>-</del> -
	N.D.	1.00	N.D.	

Alex

Chemist

Organic Manager

**Environmental Services (SDB)** 

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B Project#: 04-192214

Received: October 15, 1995

re: One sample for Semivolatiles (Base/Neutral/Acid Extractable)

analysis.

Method: EPA 3510/8270

SampleID: #3

Sample #: 106590

Sampled: October 15, 1995

*Matrix:* LIQUID Extracted: October 16, 199

Run: 8912-A Analyzed: October 16, 199

Analyte PHENOL	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
BIS(2-CHLOROETHYL)ETHER	10000	20	N.D.	<del>-</del> -
2-CHLOROPHENOL	N.D.	20	N.D.	
1 3 DICHLOROPENOL	N.D.	20	N.D.	28
1,3-DICHLOROBENZENE	N.D.	20	N.D.	
1,4-DICHLOROBENZENE	270	20	N.D.	
RENZAL WTCOHOT	180	50	N.D.	
2-CHLOROPHENOL  1,3-DICHLOROBENZENE  1,4-DICHLOROBENZENE  BENZYL ALCOHOL  1,2-DICHLOROBENZENE  2-METHYLDHENOL	750	20	N.D.	
2-METHYLPHENOL		20	N.D.	
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	20	N.D.	
4-METHYLPHENOL	23000		N.D.	
4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE	N.D.	20	N.D.	<b></b>
nexachloroeThane	N.D.	20	N.D.	52
NITROBENZENE		20	N.D.	
ISOPHORONE	N.D.	20	N.D.	
2-NITROPHENOT.	N.D.	20	N.D.	
2,4-DIMETHYL PHENOL BIS(2-CHLOROETHOXY) METHANE	N.D.	20	N.D.	
BIS (2-CHLOROETHOYV) METERANTE	3700	20	N.D.	
2,4-DICHLOROPHENOL		50	N.D.	, <del>-</del> -
1.2.4-TRICHLOROPENZEND	N.D.	20	N.D.	
NAPHTHALENE	N.D.	20	N.D.	52
2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE	N.D.	20	N.D.	
HEAVCAL OBODIAN DEBAR	N.D.	50	N.D.	
4-CULODO 3 MEMBER DE DE LA CULORO DE LA CULORDA DE LA CULORO DE LA CULORDA DELA CULORDA DEL CULORDA DE LA CULORDA DEL CULORDA DEL CULORDA DE LA CULORDA DE LA CULORDA DEL CULORDA D	N.D.	20	N.D.	
2 METHYLPHENOL	N.D.	40	N.D.	55
2-METHYLNAPHTHALENE	N.D.	20	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	20	N.D.	
2,4,6-TRICHLOROPHENOL	N.D.	$\bar{20}$	N.D.	
2,4,5-TRICHLOROPHENOL	N.D.	20	N.D.	
2-CHLORONAPHTHALENE	N.D.	20	N.D.	- <b>-</b>
2-NITROANILINE	N.D.	20	N.D.	- <b>-</b>
DIMETHYL PHTHALATE	N.D.	20	N.D.	
ACENAPHTHYLENE	N.D.	20	N.D.	
3-NITROANILINE	N.D.	20		
ACENAPHTHENE	N.D.	20	N.D.	
2,4-DINITROPHENOL	N.D.		N.D.	58
4-NITROPHENOL	N.D.	100	N.D.	<del></del>
DIBENZOFURAN	N.D.	100	N.D.	
	N.D.	20	N.D.	
2,6-DINITROTOLUENE	N.D.	20	Ŋ.D.	
2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE		50	N.D.	, <b></b>
4-CHLOROPHENYLPHENYLETHER	N.D.	20	N.D.	
FLUORENE	N.D.	20	N.D.	<del></del>
· · · · · · · · · · · · · · · · · · ·	N.D.	50	N.D.	

**Environmental Services (SD8)** 

October 16, 1995

Submission #: 9510202

04-192214

page 2 .

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B Project#:

Received: October 15, 1995

re: One sample for Semivolatiles (Base/Neutral/Acid Extractable)

analysis, continued.

Method: EPA 3510/8270

SampleID: #3

Sample #: 106590

Matrix: LIQUID

Extracted: October 16, 199

Sampled: October 15, 1995

Run: 8912-A

Analyzed: October 16, 199

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
4-NITROANILINE	N.D.	20	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	100	N.D.	
N-NITROSODI-N-PHENYLAMINE	N.D.	20	N.D.	
4-BROMOPHENYLPHENYLETHER	N.D.	50	N.D.	
HEXACHLOROBENZENE	N.D.	20	N.D.	
PENTACHLOROPHENOL	N.D.	100	N.D.	17
PHENANTHRENE	N.D.	20	N.D.	
ANTHRACENE	N.D.	20	N.D.	<del></del>
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	🛋
FLUORANTHENE	N.D.	20	N.D.	(
PYRENE	N.D.	20	N.D.	63
BUTYL BENZYL PHTHALATE	N.D.	20	N.D.	
3,3'-DICHLOROBENZIDINE	N.D.	50	N.D.	
BENZO (A) ANTHRACENE	N.D.	20	N.D.	<del>-</del> -
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	20	N.D.	<del></del>
CHRYSENE	N.D.	20	N.D.	
DI-N-OCTYLPHTHALATE	N.D.	50	N.D.	`
BENZO (B) FLUORANTHENE BENZO (K) FLUORANTHENE	N.D.	20	N.D.	
BENZO (A) PYRENE	N.D.	20	N.D.	
INDENO(1 2 2 OD) DIEDONO	N.D.	20	N.D.	
INDENO(1,2,3-CD) PYRENE DIBENZO(A, H) ANTHRACENE	N.D.	20	N.D.	
BENZ (GHI) PERYLENE	N.D.	20	N.D.	
BENZOIC ACID	N.D.	20	N.D.	<del></del>
PRINCE WOLD	N.D.	20	N.D.	
		_		

Alex Tam Chemist

Ali Kharrazi Organic Manager

Environmental Services (SDB) October 16, 1995

ECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Received: October 15, 1995

Project#: 04-192214

re: One sample for CAM 17 Metals analysis.

Method: EPA 3050A M/6010/7471

SampleID: #1

Sample #: 106588

Sampled: October 15, 1995

Matrix: SOIL

Run: 8906-C

Extracted: October 16, 1995

Submission #: 9510202

Analyzed: October 16, 1995

A	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
Analyte	(mq/Kq)	(mq/Kq)	(mq/Kq)	(%)
ANTIMONY	10	2.0	N.D.	85
ARSENIC	6.1	1.0	N.D.	80
BARIUM	87	1.0	N.D.	84
BERYLLIUM	N.D.	0.5	N.D.	87
CADMIUM	1.4	0.5	N.D.	82
CHROMIUM	21	1.0	N.D.	85
COBALT	N.D.	1.0	N.D.	84
COPPER	25	1.0	N.D.	94
LEAD	770	1.0	N.D.	85
MOLYBDENUM	N.D.	1.0	N.D.	86
CKEL	13	1.0	N.D.	84
CLENIUM	2.4	2.0	N.D.	86
SILVER	N.D.	1.0	N.D.	87
THALLIUM	N.D.	2.0	N.D.	80
VANADIUM	15	1.0	N.D.	88
ZINC	130	1.0	N.D.	81
MERCURY	0.11	0.05	N.DA	100
~ ^		/		200

Charles Woolley

Chemist

Inorganic Supervisor

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#:

04-192214

*Received:* October 15, 1995

re: One sample for CAM 17 Metals analysis.

Method: EPA 3050A M/6010/7471

SampleID: #2

Sample #: 106589

Matrix: SOIL

Extracted: October 16, 1995

Sampled: October 15, 1995

Run: 8906-C

Analyzed: October 16, 1995

BLANK SPIKE REPORTING BLANK RESULT RESULT LIMIT RESULT Analyte (%) (mg/Kg) (mq/Kq)(mq/Kq) 85 ANTIMONY N.D. N.D. 2.0 ARSENIC N.D. 80 1.0 2.1 BARIUM N.D. 84 1.0 61 87 BERYLLIUM 0.5 N.D. N.D. CADMIUM 0.5 N.D. 82 1.1 85 CHROMIUM 1.0 19 N.D. 84 N.D. 1.0 N.D.

COBALT COPPER LEAD MOLYBDENUM NICKEL SELENIUM SILVER THALLIUM VANADIUM ZINC

N.D. 14 N.D. N.D. N.D. 15 150 0.07

23

480

1.0 1.0 1.0 1.0 2.0 1.0 2.0 1.0 1.0 0.05

85 N.D. 86 N.D. 84 N.D. 86 87 N.D. 80 N.D. 88 N.D. N.D. 81 100 N.D.

94

Charles Woolley

Chemist

**MERCURY** 

Thorganic Supervisor

N.D.

October 16, 1995

Submission #: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B

Project#: 04-192214

Received: October 15, 1995

re: One sample for CAM 17 Metals analysis.

Method: EPA 3050A M/6010/7471

SampleID: #3

Sample #: 106590

Matrix: LIQUID

Extracted: October 16, 1995

Sampled: October 15, 1995

Run: 8906-C

Analyzed: October 16, 1995

No. 2014	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
Analyte	(mg/kg)L	(mg/Kg)		
ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD MOLYBDENUM NICKEL SELENIUM SILVER THALLIUM VANADIUM ZINC MERCURY	(mg/kg) L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	(mg/Kg) 1.0 0.25 1.0 0.5 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	(mq/kg) N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	85 80 84 87 82 85 84 94 85 86 84 86 87 80 88
MERCOK!	N.D.	0.05	Ŋ.D.	100

Charles Woolley

Chemist

John S. Jabash

Inorganic Supervisor

235/10-10-1-16-4

## CHROMALAB, INC.

UBS 44 1816775 184, 35

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Chain of Custody

Environmental Services (SDB) (DOHS 1094)

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PROJ. MGR HEIM  COMPANY O C  ADDRESS 1504  O CL	Franci	ulin A	946	<u>#304</u> 12	15.	(5030, 80 (02) 8020)	repH 10, 8015)	ROMATIC , 8020)	ALOCARE	CANICS (), 524.2)	15. ACIDS	GREASE F, E+F)	(0)	(0	FRABLE ONS (EPA		Cr, Pb, Zn,	(17)	LLUTANT						ONTAINE
SAMPLERS (SIGNATURE)				10NE NO.) LX NO.)	TPH - Gasofine (EPA 5030, 8015)	W/BTEX (EPA 602) 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURCEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627,(8270) 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA		LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)		:		NUMBER OF CONTAINERS
SAMPLE ID.	DATE	TIME I	MATRIX	PRESERV.	7PI (EP	<b>4</b> ≥	1P.	P. BT	<b>3</b> ⊕	VO (EF	<b>₹</b>	TO (E)	PC8 (EPA	P.E.	오호		ੜੋਂ ₹	3	E ¥	1-	ă E				Ž
SUST13-25	10/24	Ç	Foil	<u> </u>	<b>\</b>					$\checkmark$					lacksquare			/							
	10/21		Vater.		<b>/</b>					<b>V</b>		0			<b>/</b>				···						
SOLV!	10/21		Soil			1				<b>✓</b>	<b>~</b>	· /		`				<b>~</b>				<b>13</b> 4			
Solva	10/24	9	Soil			$\checkmark$	i			<b>\</b>	<b>Y</b>	<b>Y</b>						~		M	M				
PILETI3-2N	7		(10d							<b>\</b>	\	\						<b>V</b>							
PILETI3-25	16/61		ક્યાં							<b>\</b>	<b>✓</b>	<b>✓</b>						<b>'</b>							
PIT13-2 A	10/24		Soil							>	<b>~</b>	<b>V</b>						<b>\</b>		<u> </u>	<u> </u>				
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Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

**OGISO** 

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: 7 samples for Oil and Grease analysis.

Method: STANDARD METHODS 5520 E&F

Sampled: October 24, 1995

Matrix: 50IL

Extracted: October 24, 1995

Run: 9058-C

Analyzed: October 25, 1995

		OIL & GREASE	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
Spl # 107629 107630 107631 107632 107633 107634 107635	Sample ID SUST 13-2S SOLV 1 SOLV 2 PILET 13-2N PILET 13-2S PIT 13-2A PIT 13-2B	990 130 130 58 68 56 N.D.	50 50 50 50 50 50 50	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	87 87 87 87 87 87

Extractions Supervisor

Organic Manager

Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

SampleID: SOLV 1

Sample #: 107630 Sampled: October 24, 1995

Matrix: SOIL

Run: 9073-0

Analyzed: October 24, 1995

Analyte	RESULT	REPORTING LIMIT (ug/kg)	BLANK RESULT	RESULT
ACETONE	89	10	(ug/Kg) N.D.	(%)
BENZENE	N.D.	5.0	N.D.	
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	102
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	<del></del>
2-BUTANONE	N.D.	5.0 5.0 5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.%	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	
CHLOROETHANE	N.D.	5.0	N.D.	96
-CHLOROETHYLVINYLETHER	N.D.	5.0 5.0	N.D.	
HLOROFORM	N.D.		N.D.	<b>(</b>
CHLOROMETHANE	N.D.	5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	Ŋ.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	N D	5.0 5.0	N.D. N.D.	
1.1-DICHLOROETHENE	N.D. N.D. N.D.	5.0	M.D.	<b></b>
1,2-DICHLOROETHENE (CIS)	N D	5.0	N.D.	123
1,2-DICHLOROETHENE (TRANG)	N.D.		Ŋ.D.	
1.2-DICHLOROPROPAND	N.D.	5.0	Ŋ.D.	
1.3-DICHLOROPROPENE /ctg/	N.D.	5.0 5.0	N.D.	<del>-</del> -
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	16	5.0	Ŋ.D.	
2-HEXANONE	Ñ.D.	5.0	Ŋ.D.	
METHYLENE CHLORIDE	120	5.0 5.0	N.D.	·
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
TOLUENE	49	5.0	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	92
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	N.D.	5.0	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	91
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	<del></del>
TOTAL XYLENES	10. 22	5.0 5.0	N.D.	
22 ./ [ /	£1 £,	5.0	N.D.	
Non Nonden		2.0	1180	

leg Nemtsov ~nemist

Ali Kharrazi Organic Manager

Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

SampleID: SOLV 2 Sample #: 107631

Matrix: SOIL

Sampled: October 24, 1995

Run: 9073-0

Analyzed: October 24, 1995

<u>Analyte</u>	RESULT	REPORTING LIMIT (ug/Kg)	BLANK Result	BLANK SPIKE RESULT
ACETONE	41	10	(ug/Kg)	(%)
BENZENE	N.D.	5.0	N.D.	<del>-</del> -
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	102
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	<del></del>
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0 5.0 5.0 5.0	N.D.	
CHLOROETHANE	N.D.	5.0	N.D.	96
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	~ -
CHLOROFORM	N.D.	5.0	N.D.	
CHLOROMETHANE	N.D.	5.0 5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	** ***
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	
1,2-DICHLOROETHANE	N.D.	5.0 5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	123
1.2-DICHLOROETHENE (TRANG)	N.D.	5.0	N.D.	
1.2-DICHLOROPROPANE	N.D.	5.0	N.D.	<del></del>
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
בין DICHLOROPROPENT (האמקיד)	N.D.	5.0	N.D.	
ETHYL BENZENE	79	5.0	Ŋ.D.	<b>~ ~</b> .
2-HEXANONE	N.D.	5.0	Ŋ.D.	
METHYLENE CHLORIDE	110	5.0	Ŋ.D.	
4-METHYL-2-PENTANONE	Ŋ.Ď.	5.0	N.D.	<b>-</b>
STYRENE	N.D.	5.0 5.0 5.0	Ŋ.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	Ñ.Ď.	5.0 5.0	Ŋ.D.	
TOLUENE	40	5.0	N.D.	
1,1,1-TRICHLOROETHANE	Ñ.D.	5.0	N.D.	92
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	N.D.	5.0	N.D.	<b>-</b> -
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	91
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE TOTAL XYLENES	Ñ.Ď.	5.0	N.D.	
TOTAL XYLENES	110	5.0 5.0	N.D. N.D.	
alleg Newson		(11)-1		

Oleg Nemtsov

Ali Kharrazi Organic Manager

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Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

SampleID: SOLV 1

Extracted: October 24, 1995 Matrix: SOIL Sample #: 107630 Analyzed, October 25.

Sampled: October 24, 1995	Run: 9054	-A Analy	/zed: Octo	ber 25, 1995
Sampred: Occoper 24, 1990		REPORTING		BLANK \$PIKE
	RESULT	LIMIT	RESULT	result
31	(mg/Kg)	(mq/Kq)	(mq/Kq)	(%)
Analyte PHENOL	N.D.	1.0	N.D.	~ <del>-</del>
BIS (2-CHLOROETHYL) ETHER	N.D.	1.0	N.D.	~ -
2-CHLOROPHENOL	N.D.	1.0	N.D.	67 
2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYI, ALCOHOL	N.D.	1.0	Ŋ.D.	# <del>-</del>
1.4-DICHLOROBENZENE	N.₽.	1.0 2.0	Ŋ.D.	
	$\mathbf{N} \cdot \mathbf{D}$ .	2.0	N.D.	
1.2-DICHLOROBENZENE	N.D.	1.0	N.D.	
2_MCTUVI.DUENOI.	N.D.	1.0	N.D. N.D.	
BIS(2-CHLOROISOPROPYL)ETHER	N.Đ.	1.0	N.D.	
4-METHYLPHENOL	N.D.	$\bar{2}.0$	N.D.	6:6
4-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL	N.D.	1.0 1.0	N.D.	
HEXACHLOROETHANE	M.D.	1.0	N.D.	<b>4. -</b>
NITROBENZENE	N.D.	1.0	N D	<b>#</b> =
ISOPHORONE	N.D.	1.0	N.D. N.D.	~ <del>-</del>
2-NITROPHENOL	N.D. N.D. N.D.	1.0	N.D.	<b>-</b> ,-
S'4-DIWELHIPAHENOP	N D	1.0	N.D.	
BIR (S-CHPOKOETHOVI) METHOME	N D	1.0	N.D.	
2,4-DIMETHYLPHENOL BIS(2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE	и р	ī.0	N.D.	73
T'S' 4-IKICUTOKODEMODME	N.D.	$\overline{1.0}$	N.D.	<del></del>
MAPHINADENE A CUI ODOBNII.INE	N.D.	2.0	N.D.	
HEYACHLORORITADIENE	Ŋ.D.	1.0	N.D.	<del>-</del> <del>-</del> -
4-CHLORO-3-METHYLPHENOL	N.D.	2.0	N.D.	74
2 METHYT NA PHTHALENE	N.D.	1.0	N.D.	<del>+</del> +-
HEXACHLOROCYCLOPENTADIENE	N.D.	1.0	N.D.	
2 4 6-TRICHLOROPHENOL	N.D.	1.0	N.D.	
2.4.5-TRICHLOROPHENOL	N.D.	1.0	N.D.	
4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 2-NITROANILINE	N.D.	5.0	N.D.	
2-NITROANILINE	N.D.	1.0	N.D.	
DIMETHYL PHTHALATE	N.D.	5.0	N.D.	
ACENAPHTHYLENE	N.D.	1.0	N.D. N.D.	- ·
3-NITROANILINE	N.D.	5.0	N.D.	70
ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIRENZOFURAN	N.D.	1.0	N.D.	+-
2,4-DINITROPHENOL	N.D.	5.0 5.0	N.D.	<b>~</b> −
4-NITROPHENOL	N.D.	1.0	N.D.	<del>-</del> -
DIBENZOFURAN 2,4-DINITROTOLUENE	N.D.	1.00 1.00 51.00 51.00 51.00 1.00	N.D.	~~
2,4-DINITROTOLUENE	N.D.	2.0	N.D.	
2,6-DINITROTOLUENE DIETHYL PHTHALATE	N.D.	5.0	N.D.	
Distuin turnunurs		<i></i>	<u> </u>	

Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

page 2

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,

continued.

Method: EPA 3550/8270

SampleID: SOLV 1 Sample #: 107630

Sampled: October 24, 1995 Run: 9054-A

Matrix: SOIL

Extracted: October 24, 1995

Analyzed: October 25, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
4-CHLOROPHENYL PHENYL ETHER	N.D.	1.0	N.D.	
FLUORENE	N.D.	1.0	N.D.	
4-NITROANILINE	N.D.	1.0	N.D.	₩ =
4,6-DINITRO-2-METHYLPHENOL	N.D.	5.0	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.D.	1.0	N.D.	_ =
-BROMOPHENYL PHENYL ETHER	N.D.	1.0	N.D.	-,-
EXACHLOROBENZENE	N.D.	1.0	N.D.	
PENTACHLOROPHENOL	N.D.	5.0	N.D.	77
PHENATHRENE	N.D.	1.0	N.D.	<b>→</b> -
ANTHRACENE	N.D.	1.0	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	5.0	N.D.	
FLUORANTHENE	N.D.	1.0	N.D.	a. =
PYRENE	N.D.	1.0	N.D.	82
BUTYL BENZYL PHTHALATE	N.D.	5.0	N.D.	<b></b>
3,3'-DICHLOROBENZIDINE	N.D.	2.0	N.D.	
BÉNZO (A) ANTHRACENE	N.D.	1.0	N.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	5.0	N.D.	<b>-</b> . <b>-</b>
CHRYSENE	N.D.	1.0	N.D.	and the
DI-N-OCTYL PHTHALATE	N.D.	5.0	N.D.	
BENZO (B) FLUORANTHENE	<b>N</b> .D.	1.0	Ŋ.D.	<del>-</del> -
BENZO (K) FLUORANTHENE	N.D.	2.0	N.D.	<del>-</del> -
BENZO (A) PYRENÉ	N.D.	1.0	N.D.	
INDENO(1,2,3 C,D)PYRENE	N.D.	2.0	<b>й.</b> D.	
DIBENZ (A, H) ANTHRACENE	N.D.	2.0	Ŋ.D.	÷ -
BENZ(G,H,I)PERYLENE	N.D.	2.0	N.D.	
For above sample: REPOR	TING LIMITS RA	ISED DUE TO MATR.	IX INTERFER.	ENCE

Alex Tam Chemist

Organic Manager

Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

SampleID: SOLV 2

Sample #: 107631 Matrix: SOIL Extracted: October 24, 1995 Sampled: October 24, 1995 Run: 9054-A Analyzed: October 25, 1995

REPORTING BLANK BLANK SPIKE RESULT LIMIT RESULT RESULT <u>Analyte</u> (mg/Kg) (mq/Kq)(mg/Kg) (%) PHENOL N.D. 1.0 N.D. BIS (2-CHLOROETHYL) ETHER N.D. 1.0 N.D. 2-CHLOROPHENOL N.D. 1.0 N.D. 67 1,3-DICHLOROBENZENE N.D. N.D. 1,4-DICHLOROBENZENE N.D. 1.0 BENZYL ALCOHOL 1,2-DICHLOROBENZENE N.D. N.D. 2.0 N.D. N.D. 1.0 N.D. 2-METHYLPHENOL N.D. 1.0 N.D. BIS (2-CHLOROISOPROPYL) ETHER N.D. 1.0 N.D. 4-METHYLPHENOL - -N.D. 2.0 N.D. N-NITROSO-DI-N-PROPYLAMINE N.D. 1.0 N.D. 66 HEXACHLOROETHANE N.D. 1.0 N.D. NITROBENZENE N.D. 1.0 N.D. ISOPHORONE N.D. 1.0 N.D. 2-NITROPHENOL N.D. 1.0 N.D. 2,4-DIMETHYLPHENOL N.D. 1.0 N.D. BIS (2-CHLOROETHOXY) METHANE N.D. 1.0 N.D. 2,4-DICHLOROPHENOL - -N.D. 1.0 N.D. 1,2,4-TRICHLOROBENZENE \_ \_ N.D. 1.0 NAPHTHALENE N.D. 73 4.4 1.0 N.D. 4-CHLOROANILINE N.D. 2.0 N.D. HEXACHLOROBUTADIENE N.D. 1.0 N.D. 4-CHLORO-3-METHYLPHENOL 2.0 2-METHYLNAPHTHALENE N.D. 74 N.D. 1.0 HEXACHLOROCYCLOPENTADIENE N.D. N.D. 1.0 N.D. 2,4,6-TRICHLOROPHENOL N.D. 1.0 N.D. 2,4,5-TRICHLOROPHENOL N.D. 1.0 N.D. 2-CHLORONAPHTHALENE N.D. 5.0 2-NITROANILINE N.D. N.D. 1.0 N.D. DIMETHYL PHTHALATE N.D. 5.0 ACENAPHTHYLENE N.D. N.D. 1.0 N.D. 3-NITROANILINE N.D. N.D. ACENAPHTHENE N.D. 2,4-DINITROPHENOL 70 N.D. N.D. 4-NITROPHENOL N.D. 5.0 N.D. DIBENZOFURAN 3.2 N.D. 2,4-DINITROTOLUENE N.D. N.D. 2,6-DINITROTOLUENE N.D. DIETHYL PHTHALATE N.D.

Environmental Services (SDB)

October 25, 1995

Submission #: 9510335

page 2

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,

continued.

Method: EPA 3550/8270

SampleID: SOLV 2

Matrix: SOIL Sample #: 107631

Extracted: October 24, 1995

1995 Analyzed: October 25, Sampled: October 24, 1995 Run: 9054-A

Sampled: Occoper 24, 15	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • • • •	•	
•		REPORTIN		BLANK SPIKE
	RESULT	LIMIT	result	RESULT
	(mg/Kg)	(mq/Kq)	(mq/Kq)	(%)
Analyte		1.0	N.D.	
4-CHLOROPHENYL PHENYL ET	3.0	1.ŏ	N.D.	<del>-</del> -
FLUORENE	N.D.	5.0	N.D.	
4-NITROANILINE		5.0	N.D.	
4,6-DINITRO-2-METHYLPHEN	OL N.D.	1.0	N.D.	
N-NITROSO-DI-N-PHENYLAMI	NE N.D.	1.0	N.D.	
4-BROMOPHENYL PHENYL ETH	ER N.D.	1.0	N.D.	-,-
HEXACHLOROBENZENE	N.D.	5.0	N.D.	<b>7</b> .7
PENTACHLOROPHENOL	N.D.	3.0	N.D.	
PHENATHRENE	10	1.0	N.D.	-
ANTHRACENE	1.5	1.0 5.0	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	5.0	N.D.	<b>*</b> *
FLUORANTHENE	6.2	1.0		82
PYRENE	4.8	1.0	N.D.	52
BUTYL BENZYL PHTHALATE	N.D.	5.0	N.D.	
3,3'-DICHLOROBENZIDINE	Ŋ.D.	2.0	N.D.	
BENZO (A) ANTHRACENE	N.D.	1.0	Ŋ.D.	
BIS (2-ETHYLHEXYL) PHTHALA	TE N.D.	5.0	N.D.	<del>-</del> -
CHRYSENE	N.D.	1.0	Ŋ.D.	-,-
DI-N-OCTYL PHTHALATE	N.D.	5.0 1.0 5.0 1.0 2.0	Ŋ.D.	
BENZO (B) FLUORANTHENE	N.D.	1.0	N.D.	<b>-</b> -
BENZO (K) FLUORANTHENE	N.D.	2.0	N.D.	<del></del>
RENZO (A) PYRENE	N.D.	1.0 2.0	N.D.	
INDENO(1,2,3 C,D) PYRENE	N.D.	2.0	N.D.	<b></b>
DIBENZ (A.H) ANTHRACENE	N.D.	2.0	N.D.	<del></del>
BENZ (G, H, I) PERYLENE	N.D.	2.0	N.D.	
For above sample:	REPORTING LIMITS	RAISED DUE TO 1	MATRIX INTERFER	ENCE

Alex Tam

Chemist

Ali Kharrazi Organic Manager

**Environmental Services (SDB)** 

October 25, 1995

Submission #: 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for CAM 17 Metals analysis.

Method: EPA 3050A M/6010/7471

SampleID: SOLV 1

Sample #: 107630

*Matrix:* SOIL

Extracted: October 24, 1995

Sampled: October 24, 1995

Run: 9050-C

Analyzed: October 25, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mq/Kq)	BLANK SPIKE RESULT (%)
ANTIMONY ARSENIC	3.7	2.0	N.D.	100
BARIUM	N.D. 96	1.0	N.D.	99
BERYLLIUM	N.D.	1.0 0.5	N.D. N.D.	98
CADMIUM	N.D.	0.5	N.D.	99 99
CHROMIUM COBALT	23	1.0	N.D.	98
COPPER	N.D. 63	1.0	N.D.	98
LEAD	670	1.0 1.0	N.D. N.D.	98
MOLYBDENUM NICKEL	N.D.	1.0	N.D.	98 100
SELENIUM	15	1.0	N.D.	95
SILVER	N.D. N.D.	2.0	Ŋ.D.	98
THALLIUM	N.D.	1.0 2.0	N.D. N.D.	98
VANADIUM ZINC	18 /	1.0	N.D.	100 100
MERCURY	480 /	1.0	N,D.	100
10 10	0.25	0.05	и.ф.	110

Charles Woolley

Chemist

John S. pabash Inorganic Supervisor

**Environmental Services (SDB)** 

October 25, 1995

Submission #: 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800

Received: October 24, 1995

re: One sample for CAM 17 Metals analysis.

Method: EPA 3050A M/6010/7471

SampleID: SOLV 2

Sample #: 107631

Matrix: SOIL Extracted: October 24, 1995

Sampled: October 24, 1995

Run: 9050-C

Analyzed: October 25, 1995

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
<u>Analyte</u>	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
ANTIMONY	N.D.	2.0	N.D.	100
ARSENIC	N.D.	1.0	N.D.	99
BARIUM	37	1.0	N.D.	98
BERYLLIUM	N.D.	0.5	N.D.	99
CADMIUM	N.D.	0.5	N.D.	99
CHROMIUM	21	1.0	N.D.	98
COBALT	N.D.	1.0	N.D.	98
COPPER	8.7	1.0	N.D.	98
LEAD	58	1.0	N.D.	98
-MOLYBDENUM	N.D.	1.0	N.D.	100
NICKEL	15	1.0	N.D.	95
SELENIUM	N.D.	2.0	N.D.	98
SILVER	N.D.	1.0	N.D.	98
THALLIUM	N.D.	2.0	N.D.	100
VANADIUM	15	1.0	N.D.	100
ZINC	32	1.0	N <sub>1</sub> D.	100
4 / 1. 5		Λ		

Charles Woolley Chemist

Inorganic Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756 510/484-1919 • Facsimile 510/484-1096

c/224667 Chain of Custody

Environmental Services (SDB) (DOHS 1094) SUBM #: 9510416 REP: MD ANALYSIS REPORT CLIENT: OGISO PURGEABLE HALOCARBONS Ï 10/29/95 TPH - Gasoline (5030, 8015) DUE: PURCEABLE AROMATICS REF #:24667 VOLATILE ORGANICS (EPA 624, 8240, 524.2) METALS: Cd, Cr, Pb, PRIORITY POLL (EPA 608, 8080) [EPA 601, 8010] TOTAL OIL & (510) 451-5772. SAMPLERS (SIGNATURE) MATRIX PRESERV water 100 Gal. UST-Water RELINQUISHED BY **RELINQUISHED BY** PROJECT INFORMATION SAMPLE RECEIPT RELINGIVISHED BY. TOTAL NO. OF CONTAINERS Phoenia 800 (SIGNATURE) (SIGNATURE) (TIME) HEAD SPACE Small bubble REC'D GOOD CONDITION/COLD (PRINTED NAME) (PRINTED NAVIE) (DATE) P.O. # CONFORMS TO RECORD STANDARD TAT OTHER 5-DAY RECEIVED BY (LABORATORY) **RECEIVED BY** RECEIVED BY SPECIAL INSTRUCTIONS/COMMENTS: Due Sunday Noon 12:00 (SIGNATURE) (SIGNATURE) (PRINTED NAME) (PRINTED NAME)

(COMPANY)

(COMPANY)

Environmental Services (SDB)

October 28, 1995

Submission #: 9510416

**OGISO** 

Atten: Hamid Mashtoghi

Project: Cypress "B" Phoenix 800

Received: October 28, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260 SampleID: 100 Gal UST-Water

Sample #: 108278

Matrix: WATER

Sampled: October 28, 1995

Run: 9130-A

Analyzed: October 28, 1995

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
Analyte	(ug/L)	(ug/L)	(ug/L)	(%)
ACETONE	83	40	N.D.	<del></del>
BENZENE	61	20	N.D.	108
BROMODICHLOROMETHANE	N.D.	20	N.D.	
BROMOFORM	N.D.	20	N.D.	<del></del>
BROMOMETHANE	N.D.	20	N.D.	
METHYL ETHYL KETONE	62	20	N.D.	<b></b>
CARBON TETRACHLORIDE	N.D.	20	N.D.	
CHLOROBENZENE	N.D.	20	N.D.	104
CHLOROETHANE	N.D.	20	N.D.	<b></b> .
2-CHLOROETHYLVINYL ETHER	N.D.	20	N.D.	<del></del>
THLOROFORM	N.D.	20	N.D.	
HLOROMETHANE	N.D.	20	N.D.	
DIBROMOCHLOROMETHANE	N.D.	20	N.D.	
1,1-DICHLOROETHANE	N.D.	20	N.D.	<del></del>
1,2-DICHLOROETHANE	N.D.	20	N.D.	·
1,1-DICHLOROETHENE	N.D.	20	N.D.	76
CIS-1,2-DICHLOROETHENE	Ŋ.D.	20	N.D.	
TRANS-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	Ŋ.D.	20 .	N.D.	<del></del> .
1,2-DICHLOROPROPANE CIS-1,3-DICHLOROPROPENE	Ŋ.D.	20	N.D.	
TRANS-1,3-DICHLOROPROPENE	Ŋ.D.	20	N.D.	
ETHYLBENZENE	N.D. 56	20	N.D.	<del></del>
2-HEXANONE	56	20	N.D.	
METHYLENE CHLORIDE	N.D.	20	Ŋ.D.	
METHYL ISOBUTYL KETONE	N.D. N.D.	20	N.D.	
STYRENE STYRENE	N.D. 29	20	Ŋ.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	20	N.D.	
TETRACHI OPORTURNE	N.D.	20 20	N.D.	,
TETRACHLOROETHENE TOLUENE	48		N.D.	400
	N.D.	20 20	N.D.	107
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE	N.D.	20	N.D.	
TRICHLOROETHENE	N.D.	20	N.D. N.D.	 105
TRICHLOROFLUOROMETHANE	N.D.	20	N.D.	105
VINYL ACETATE	N.D.	20	N.D.	
VINYL CHLORIDE	N.D.	20	N.D.	<b></b>
TOTAL XYLENES	77	20	N.D.	
		- 10 to	11.0.	

Aaron McMichael

Ali Kharrazi

Organic Manager

**Environmental Services (SDB)** 

October 28, 1995

Submission #: 9510416

OGISO

Atten: Hamid Mashtoghi

Project: Cypress "B" Phoenix 800 Received: October 28, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260 ...

SampleID: 100 Gal UST-Soil

Sample #: 108277 Matrix: SOIL

Sampled: October 28, 1995 Run: 9130-A

Analyzed: October 28, 1995

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
Analyte	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	10	N.D.	(-5)
BENZENE	N.D.	5.0	N.D.	108
BROMODICHLOROMETHANE	N.D	5.0	N.D.	100
BROMOFORM	N.D.	5 7	N.D.	· , ==
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	, N.D.	5.0 5.0 5.0 5.0 5.0 5.0 5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	104
CHLOROETHANE	N.D.	5.0	N.D.	104
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
THLOROFORM	N.D.	5.0	N.D.	4
HLOROFORM HLOROMETHANE DIBROMOCHLOROMETHANE	N.D.	55.55.55.55.55.55.55.55.55.55.55.55.55.	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	76
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	·
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	<b>-</b>
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	•
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	<b></b>
ETHYL BENZENE	N.D.	5.0 5.0	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE 4-METHYL-2-PENTANONE	N.D. N.D.	5.0	N.D.	
4-METHYL-2-PENTANONE	N.D.	5.0 5.0	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	<del>-</del> -
TETRACHLOROETHENE	N.D.	5.0	N.D.	·
TOLUENE	N.D.	5.0	N.D.	107
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHANE	N.D.	5.0	N.D.	
T, I, Z-TRICHLOROETHANE	N.D.	5.0	N.D.	
IKICHLOROETHENE	$\sim$ N.D.	5.0	N.D.	105
	11.0.	5.0	N.D.	,
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	organis <del>ia</del> seria.
TOTAL XYLENES	N.D.	5.0	N.D.	right from the first of the fir
			1	

hemist

Ali Kharrazi Organic Manager

#### **APPENDIX C3:**

# STOCKPILE CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORT



Analytical Laboratory Divis Mobile Laboratory Divis Scientific Divis

#### Metal **EPA Method 6010**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct 27, 1995

Date Received:

Oct 27, 1995

Date Requested: Nov 1, 1995 Date Analyzed:

Nov. 2, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.DIESSTOC1

LAB ID:

\$T95-10-3075A

Matrix:

Soil

Dilution:

Name	Amount	Reporting	
Lead (Pb)		Limit	Units
	1.2	1.0	mg/Kg
ppms parts per million = mg/Kg = milligram per Kilogram			

NO a Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

של השתכ

Nov 3, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Conflication No. 1814)



Analytical Laboratory Divisi Mobile Laboratory Divisi Scientific Divisi

#### Metal **EPA Method 6010**

JANTI R. TAM

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct 27, 1995

Date Received:

Oct 27, 1995

Date Requested: Date Analyzed:

Nov 1, 1995 Nov. 2, 1995

Project #:

Client ID:

T.DIESSTOC2

Project Name:

Cypress B Phoenix

LAB ID:

ST95-10-3077A

Matrix:

Soil

Dilution:

Name	Amount	Reporting Limit	Units
Lead (Pb)	82	1.0	
ppm= pags ber million = modeo = million			mg/Kg

mg/Kg = milligram per Kilogram

ND  $\pm$  Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 3, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LASCRATORY (Carification No. 1614)



Analytical Laboratory Mobile Laboratory Divis Scientific Divis

#### Metal **EPA Method 6010**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct 27, 1995

Date Received:

Oct 27, 1995

Date Requested: Date Analyzed:

Nov 1, 1995 Nov. 2, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.DIESSTOC3

LAB ID:

ST95-10-3079A

Matrix:

Soil

Dilution:

Name	Amount	Reporting Limit	
Lead (Pb)		Cirini	Units
	38	1.0	mg/Kg
ppme parts per million = mg/Kg = milligram per Kilogram			g.i\g

ND = Not Detected. Compound(a) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 3, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certaication No. 1614)



Analytical Laboratory Divis Mobile Laboratory Divisi . Scientific Divisi

#### Metal **EPA Method 6010**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Project #:

Client ID:

T.DIESSTOC4

Matrix:

Soil

Date Sampled:

Date Received:

Oct 27, 1995 Date Requested: Nov 1, 1995 Nov. 2, 1995

Date Analyzed:

Project Name:

Cypress B Phoenix

LAB ID:

ST95-10-3081A

Oct 27, 1995

Dilution:

Name	Amount	Reporting Limit	
Lead (Pb)		Laim	Units
(1.6)	43	1.0	6.6
ppm= parts per million = mg/Kg = milligram per Kljooram			mg/Kg

ND ~ Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 3, 1995 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



Analytical Laboratory Divi Mobile Laboratory Division Scientific Division

#### TCLP Metal, EPA Method 6010 **Analysis Report**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct 27, 1995 Date Received: Oct 27, 1995

Date Requested:

Nov 1, 1995

Date Analyzed:

Project Name:

Nov 3, 1995

Project #:

T.DIESSTOC1

Cypress B Phoenix

Client ID:

LAB ID:

ST95-10-3076A

Matrix:

**TCLP Extract** 

Dilution:

Name	Amount	Reporting Limits	Units
Lead (Pb)	ND	0.50	mg/L

ppm= parts per million = mg/L = milligrams per Liter

ND = Not Detected. Compound(s) may be prozent at concentrations below the detection limit.

R. L. James, Principal Chemist

<u>Nov 3, 1995</u>



Analytical Laboratory Divisior Mobile Laboratory Division Scientific Division

#### TCLP Metal, EPA Method 6010 **Analysis Report**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct 27, 1995

Date Received:

Oct 27, 1995 Date Requested: Nov 1, 1995

Date Analyzed:

Nov 3, 1995

Project Name:

Cypress B Phoenix

Client ID:

Project #:

LAB ID:

ST95-10-3078A

Matrix:

TCLP Extract

Dilution:

Name /	Amount	Reporting Limits	Units
Lead (Pb)	0.59	0.50	mg/L

i = mg/L = milliproms per Litor

NO - Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 3, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



Analytical Laboratory Div Mobile Laboratory Division Scientific Division

#### TCLP Metal, EPA Method 6010 **Analysis Report**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct 27, 1995 Date Received:

Date Requested: Nov 1, 1995 Date Analyzed:

Oct 27, 1995

Nov 3, 1995

Project #:

Client ID:

T.DIESSTOC3

Project Name:

Cypress B Phoenix

\$T95-10-3080A

Matrix:

TCLP Extract

Dilution:

LAB ID:

Name Reporting Amount <u>Limits</u> Units Lead (Pb) ND 0.50 mg/L

ppm= pens per million = mg/l, = milligrams per Liter

NO = Not Detocled. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 3, 1995

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



Analytical Laboratory Division Mobile Laboratory Division Scientific Division

#### TCLP Metal, EPA Method 6010 **Analysis Report**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Date Received:

Oct 27, 1995 Date Requested:

Nov 1, 1995

Date Analyzed:

Nov 3, 1995

Oct 27, 1995

Project #:

Client (D:

T.DIESSTOC4

Matrix: TCLP Extract Project Name:

Cypress B Phoenix ST95-10-3082A

Dilution:

LAB ID:

Name Reporting **Amount** Limits Units Lead (Pb) 1.6 0.50 mg/L

pprite parts per million = mg/L = milligrame per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the dietection limit.

R. L. James, Principal Chemist

Nov 3, 1995



19:23

10 31 95

Analytical Laboratory Division Mobile Laboratory Division Scientific Division

## 8015 Modified Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, # 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.DIESSTOC1

LAB ID:

ST95-10-2773A

Matrix:

Soil

Dilution:

1

1:

Name	Amount	Detection Limit	Units	
TPHdiesel	ND	1.0	ug/g	_

900 = parts per billion - ug/kg = micrograms per kilogram

pame parts per million  $\approx$  ug/g  $\approx$  micrograms per gram

ND = Not Detected. Compound(c) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Oct 31, 1995



Analytical Laboratory Division Mobile Laboratory Division Scientific Division

#### 8015 Modified Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmenta!

1504 Franklin Street, # 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.DIESSTOC2

LAB ID:

ST95-10-2774A

Matrix:

Soil

Dilution:

1

1:

Name	Amount	Detection Limit	Units	
TPHdiesel	ND	1.0	ug/g	
noh - out- oachilian - u-ai-				

ppm= paris pur milion = ug/g = micrograms per gram

ND = Not Defected. Compound(s) may be prosent at concentrations below the detection imit.

R. L. James, Principal Chemist

Oct 31, 1995



19:24

10 31 95

Analytical Laboratory Divisi Mobile Laboratory Division Scientific Division

#### 8015 Modified Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, # 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID;

T.DIESSTOC3

LAB ID:

ST95-10-2775A

Matrix:

Soil

Dilution:

1:

Name	Amount	Detection Limit	Units	
TPHdiesel	ND	1,0	ug/g	

ppb = parts per billion = ug/kg = micrograms per kilogram

pomu parts per million = ug/g = micrograms per gram

ND = Not Datected. Compound(s) may be present at concontrations below the detection limit.

R. L. James, Principal Chemist

Oct 31, 1995



19:25

Analytical Laboratory Division Mobile Laboratory Division Scientific Division

## 8015 Modified Analysis Report

TIM YUE

Attention:

10/31/95

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, # 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.DIESSTOC4

LAB ID:

ST95-10-2776A

Matrix:

Soil

Dilution:

1

1:

Name	Amount	Detection Limit	Units	
TPHdiesel	6.8	1.0	ug/g	<del>_</del>

pob = parts per billion - ug/kg = micrograms per kilogram

ppms parts por million a ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be prozent at concentrations below the detection limit.

R. L. James, Principal Chemist

Oct 31, 1995

これでいるのかであっているのですが、食材が軽くなっているので

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#000 ren

FAX 10:512 404 1806

TO: RIEDEL

Environmental Services (SDS)

November 8, 1995

Submission #: 9511104

SMITH ENVIRONMENTAL

Allen: Chris White

Project: 4404

Project#: 4404

Received: November 6, 1995

re: 8 samples for Total Recoverable Potroloum Hydrocarbons analysis.

Mcthod: EPA 118.1

Sampled: Movember 6, 1995

Matrix: SCIL

Extracted: November 7, 1995 Analyzed: November 7, 1995

Run: 9272-C BLANK BLANK SPIKE REPORTING RESULT RESULT LIMIT TRPH (%) (mg/Kg) (mq/**%**g) (mq/Kq)Sp1 # Sample ID 109579 T DIESZ STOC 1A,B,C,D 109588 282.STOC A,B,C,D 85 85 10 N.D. 10 31 109588 PB2.STOC A,B,C,D 109589 T DIES2.STOC 2A,B,C,D 109590 T DIES2.STOC 3A,B,C,D 109591 T DIES2.STOC 4A,B,C,D 109592 T DIES2.STOC 5A,B,C,D 109593 T DIES2.STOC 6A,B,C,D 109595 T-17-W 85 N.D. 10 6,9 85 85 N.D. 3.0 . 63 N.D. 10 65 33 N.D. 10 10 N.D. ΔŮ N.D.

Extractions Supervisor

Ali Kharrazi Organic Manager

Environmental Services (SDB)

November 10, 1995

Submission #: 9511104

Reissued from Nov. 6, 1995

SMITH ENVIRONMENTAL

Atten: Chris white

Project: 4404

Received: November 6, 1995

Project#: 4404

re: 8 samples for Diesel analysis.

Method. BPA 3550/0015M

Sampled: November 6, 1995

Matrix: SOIL

Extracted: November 7, 1995

Run: 9277 K

Analysed: November 7, 1995

-1.		DIESEL	reporting Limit	RESULT	ank spike Result
BDT #	Sample ID	(mg/Kg)	(mg/Kg)	(mg/kg)	(%)
109579	T DIES2.STOC 1A,B,C,D	N.D.	1.0	N.D.	70
107588	PB2.STOC A,B,C,D	N.D.	1.0	N.D.	70
	For above sample: Unknow	n hydrocarbons	in the Diesel	range. conc.=	: 13 mg/Kg.
109589	T DIES2.STOC 2A.B.C.D	1.8	1.0	N.D.	70
109590	T DIESZ.STOC 3A,B,C,D	N.D.	1.0	N.D.	γð
109591	T DIES2.STOC 4A, D, C, D	N.D.	ī.ŏ	Ñ.D.	ŹŎ
109592	T DIES2.STOC 5A,B,C,D	N.D.	1.0	N.D.	70
	For above sample: Unknow	n hydrocarbons	in the Diesel	TANGE, CONC.	
109593	T DIESZ.STOC 6A,B,C,D	N.D.	1.0	N.D.	70
	T 17 W	N.D.	1.0	N.D.	70

Kimyai Chemist

Eric Tam

Laboratory Director

Environmental Services (SDB)

November 7, 1995

Submission #: 9511104

SMITH ENVIRONMENTAL

Atten: Chris White

Project: 4404

Received: November 6, 1995

Project#: 4404

re: 8 samples for Lead analysis.

Method: EPA 3050M/7420

Sampled: November 6, 1995

Matrix: SOIL

Extracted: November 7, 1995
Analyzed: November 7, 1995

Run: 9264-A

Spl # Sample ID	LEAD (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/kg)	BLANK SPIKE RESULT (%)
109578 T DIES2.STOC LA,B,C,D 109580 T DIES2.STOC 2A,B,C,D 109581 T DIES2.STOC 3A,B,C,D 109582 T DIES2.STOC 4A,B,C,D 109583 T DIES2.STOC 5A,B,C,D 109584 T DIES2.STOC 6A,B,C,D 109585 2T SOLV.STOC A,B,C,D 109587 PB2.STOC A,B,C,D	150 36 74 90 46 76 980 38	5.0 5.0 5.0 5.0 5.0 5.0	N.D. N.D. N.D. N.D. N.D. N.D.	103 103 103 103 103 103 103 103

Chemist

Inorganics Supervisor

November 7, 1995

Submission #: 9511104

SMITH ENVIRONMENTAL

Atten: Chris White

Project: 4404

Received: November 6, 1995

Project#: 4404

re: 7 samples for Lead analysis. Method: EPA 3050M/7420

Sampled: November 6, 1995

Matrix: SOIL

Extracted: November 7, 1995

Analyzed: November 7, 1995 Run: 9264-A

Spl # Sample ID	LEAD (mg/kg)	REPORTING LIMIT (mq/kq)	BLANK RESULT (mg/kg)	BLANK SPIKE RESULT (%)(
109578 T DIES2.STOC 1A,B,C,D	150	5.0	N.D.	103
109580 T DIESZ.STOC 2A,B,C,D	36	5.0	N.D.	103
109521 T DIES2.STOC 31,B,C,D	74	5.0	N.D.	1 UU 1 0 3
109582 T DIES2.STOC 4A,B,C,D	90	5.0	N.D.	103
109583 T DTRS2.STOC 5A,B,C,D	46	5.0	N.D.	. 10/3
109584 T DIES2.STOC 6A,B,C,D	76	5.0	N.D.	10β
109585 2T SOLV.STOC A.B.C.D	980	5.0	N.D.	103

Christopher Arndt

Chemist

organics Supervisor



Analytical Laboratory Division Mobile Laboratory Division Scientific Division

#### 8240 GCMS Analysis Report

Attention: Mr. Harrid Moshtaght Date Sampled: Oct. 27, 1995
Ogiso Environmenta: Date Received: Oct. 27, 1995
1504 Franklin Street, Suite 304
Date Analyzed: Oct. 31, 1995

Oakland, CA 94612

Project #: Project Name: Cypress B Phoenix

Client ID: T.SOLVS (UC) LAB ID: ST95-10-2745A

Matrix: Soil Dilution, 1:

Name	Amonot	Reporting Limit	11
1,1 - Dichloroethane	ND		Units
I, I - Dichloroetnone	ND	5.0	nð kð
1,1,1 - Trichlorgethang	ND	5.0	ug/kg
1,1,2 - Trichlorecthane	ND	5.0	ug/kg
1,1,2,2 - Letrachlorocthane	ND	5.0	ug/kg
1,2 - Dichleroothane	ND	5.Ü	ug/kg
cis - 1,2 - Dichloroethene	· ·	<b>6.0</b>	nā/kū
1,2 Dichloropropane	ND	5.0	ug/kg
trans 1.2 Dichloroethene	ND	5.0	ug/kg
2 Butanone	ND	5.0	មជ្ជ/វិស្ស
2 Hexenone	ND	10.0	ນg/kg
1 - Methyl - 2 - pentanone	ND	10.0	սը/եց
Acotone	ND	10.0	ug∆eg
Benzene	ND	25.0	ag/kg̃
Bromadichlommethane	ND	5.0	ug/kg
Promotomichemenane Bromotomi	ND	5.0	ug/kg
	ND	5.0	ug/kg
Gromomethane Darbon disublide	ND	5.0	ug/kg
,	ND	5.0	ug/kg
Samon tetrachloride	ND	5.0	ug/kg
Oldombenzene	ИD	5.0	•••
Chloroethane	ND	5.0	ug/kg
Chloroform	ND	5.0	ug/kg
2 doromethane	ND	5.0	nd\kd
fs - 1,3 - Dichloropropone	ND	•	ug/kg
Dibromochloromethane	ND	5.0	nā∕kg
ob - parts per opion is sold a memograms per hippram		5.0	ug/kg

June tottt bet willen -- någe er atoliteret bes åred -- - neret tet tetet, er alled it waterliketet bet tetilit

NO - Not Detailed. Company that may be present at property one to ou the reporting limit



... Rage 2 of 2 **Analytical Laboratory Division** Mobile Laboratory Division Scientific Division

#### 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Date Sampled: Date Received: Oct. 27, 1995

Ogiso Environmental 1604 Franklin Street, Suite 304

Date Analyzed:

Oct. 27, 1995 Oct. 31, 1995

Cakland, CA 94612

Project Name:

Cypress B Phoenix

Client ID:

Project #:

T.SOLVSTOC1

LAB ID:

ST95-10-2745A

Matrix

Soil

Dilution:

1:

Name	Amount	Reporting Limit	Units
Ethyl benzene	ND	5.0	⊪g/kg
Methylene chloride	ND	10.0	ug/kg
Styrene	ND	50	ug/kg
Tetrachioroethene	ND	5.0	սը/кր
Toluene	43	5.0	ug/kg
Meta/Para-Xylenes	ND	5.0	ug/kg
Ortho-Xylenes	ND	5.0	ug/kg
trans - 1,3 - Dichloropropene	ND	5.0	ug/kg
Trichlomethene	פא	5.0	ug/kg
Vinyl acetate	ND	5.0	ug/kg
Vinyl chloride	ND	5.0	ug/kg
Surrogate % Recovery 1,2 - Dichloroethane d-4 -		162%*	
Surrogate % Recovery Toluena o-8 =		104%	
Surrogate % Recovery 4 - Bromofluorobenzene =		213%	

see - porte par billion - ugifig - miorograms per hilogram

\* High surrogate percent recovery due to matrix effect

A. L. James, Principal Chemist

Oct 31, 1995

Uals Reported

SPARICENTECHNOLOGY AVALYTICAL LADORATORY, INC. 13 CERTIFIED BY THE STATE OF CALIFORNIA dependingly of here th springs exceptions was in Fig. ( ), i.e., that is the spring that the spring  $(\mathcal{L}_{\mathcal{L}})$ (Corplenies No. 1514)

pome pone por million – softe micrograms bor gram.

ND – Not Detector. Compoundly may be present at echecutrations below the repening limit.





Page 1 of 2

Analytical Laboratory Division Mobile Laboratory Division Scientific Division

#### 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

Oct. 27, 1995

Ogiso Environmental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Date Analyzed:

Uakland, CA 94612

Oct. 31, 1995

Project Name:

Cyprose B Phoenix

Client ID:

Project #:

1.SOLVS10C2

LAB ID:

S195-10-2748A

Matrix:

Soil

Dilution:

1:

Name	Amount	Reporting Limit	Units
1,1 Dichlorecthane	ND	5.0	ug/kg
1,1 - Dichlorcethene	MD GM	5.0	ug/kg
1.1.1 - Trichloroethane	ND	5.0	ug/kg
1.1,2 - Trichiproetnane	ND	5.0	ug/kg
1.1,2.2 - Tetrachloroetnane	ND	5.0	ug/kg
1.2 - Dichlorpethane	ND	5.0	ug/kg
cis - 1,2 - Dichloroethene	ND	5.0	ug/kg
1.2 - Dichloropropane	ND	5.0	ug/kg
trans - 1,2 - Dichlomethene	ND	5.0	ug/kg
2 - Butanone	ND	10.0	ug/kg
2 - Haxanone	ND	10.0	ug/kg
4 - Methyl • 2 - pentanone	ND	10.0	មហូ/kg
Acetone	ND	25.0	ug/kg
Велин	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	5.0	ug/kg
Carbon disuttide	ND	5.0	ug/kg
Carbon tetrachloride	NO	5.0	ug/kg
Chlorobenzene	ND	5.0	บดู/kg
Chloroethane	ND	6.0	ug/kg
Chlorotorm	NU	6.0	ug/kg
Chloromethano	טא	5.0	ug/kg
ois - 1,3 - Dichloropropene	ND	5.0	
Dibromocnloromethane	ND	5.0	ug/kg ug/kg

ppb - part par billion - upfrg - micrograms per lifeyam

pom- parte per milion – vorg., micrograma per gram while the factories . Compress (a) may be present at concentrations below the reporting on (



**2**916 362 0947

Page 2 of 2

Analytical Laboratory DMsion **Mobile Laboratory Division** Scientific Division

#### 8240 GCMS Analysis Report

Attention:

Mr. I lamid Mosntaghi

Date Samples:

Oct. 27, 1995

Ogiso Environmental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Date Analyzed:

Oct. 31, 1995

Oakland, CA 34612

Project Name:

Project #: Client ID:

LAB ID.

Cypress B Phoenix ST95-10-2748A

TISOLVSTOC2

Soil

Matrix:

Dilution

Name	Amount	Reporting Limit	Units
Ethyl benzene	ND	50	ng/kg
Methylene chloride	ND	10.0	ug/kg
Styrene	ND	5.0	սց/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ΝĐ	5.0	ug/kg
Meta/Para-Xylenes	ND	5.0	ug/kg
Ortho-Xylenes	NÞ	<b>5</b> .0	ug/kg
trane - 1.3 - Dichtoropropene	ND	5.0	ug/kg
Trichlorcethene	ND	5.ů	ug/kg
Vinyl acetate	ND	5.0	ug/kg
Vinyl chloride	ND	5.0	ug/kg
Surrogate % Recovery 1,2 - Dichloroethane d-4 =		149%*	
Surrogate % Hecovery Toluene d-8 =		14/%*	
Surrogate % Recovery 4 - Bromofluorobonzono =		239%*	

imia v posta par billion – viginoj – microgramia der publigram pom – posta per milikan = 1800= microgramia der gram NU = NOI 1886080. Compound(s) may be present at concentrations below (me reporting limit).

D. L. James, Principal Chemiot

Oct 31, 1995

Date Reported

SPARGER TROUBLY DGY ANALYTICAL FARDEATORY, INC. IS DEPOTED BY THE STATE OF DALIFICANIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUG WASTE TESTING LABORATORY Certification (No. 16 H)

<sup>\*</sup> High surrogate percent recovery due to matrix effect

Page 1 of 2



Analytical Laboratory Division Mobile Laboratory Division Scientific Division

### 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshlayhi

Date Sampled:

Qc: 27, 1995

Ogico Environmiental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Date Analyzed:

Qul. 81, 1395

Oakiend, CA 94612

T SULVSTOC3

Project Name:

Project #1 Çliect ID:

LAB ID:

Cypress B Plinerax ST95-10-2751A

Matrix

Dilution:

1:

latrix: GOII	Barti Mi Mi William				
	InucmA	Reporting Limit	Units		
Name	ND	5.0	ug/kg		
1 - Dichlorosthane	ND	5.0	ug/kg		
1 - Dichloroethene	ND	5.0	บg/kg		
1.1.1 - Trichtoroethane	ND	5.0	ug/kg		
1,1,2 - Trichloroethano	ND	5.0	ug∧g		
1,1,2.2 - Tetrachlorcethane	ND	<b>5.</b> 0	ug/k <b>g</b>		
,2 - Dicinformethane	ND	5.0	ug/kg		
cis - 1,2 - Dichiproethene	ND	5.0	υ <u>ģ</u> /kg		
1,2 - Dichloropropane	ND	6.0	ug/kg		
trans - 1,2 - Dirdilordethene	ND	10.0	ug/kg		
2 - Butanone	ND	10.0	ug/kg		
2 - Hexanone	ND	10.0	ug/ky		
4 - Methyl • 2 - pentanone	ND	25.0	ug/kg		
Acetone	ND ND	5.0	ug/kg		
Bonzene	ND ND	5.0	ug/kg		
Bromodichloromethane	•	5.0	ug/kg		
Bromoform	ND	5.0 5.0	ug/kg		
Bromomethane	ND	5.0	ug/kg		
Carbon disulfide	ND		ug/kg		
Carbon totrachloride	ND	5 O	•		
Chlorobenzenc	ΝŮ	50	ug/kg		
Chloroethano	ИD	5.0	ug/kg		
Chloroform	ND	5.0	ug/kg		
Chloromethane	ND	5.0	ug/kg		
cis - 1,3 - Dichloropropend	ND	5.0	na\ya		
Dibromochloromethanc	ND _	5.0	ս <b>ց/kg</b>		

Min - haus ber jegen - nögelig - micrograms, hat especiali

Little byle off water a relief in modificus for becur

ND - Net Detector4. Commouncial than be present at surrented and two ow the expension for a

Page 2 of 2



Analytical Laboratory DMslon Mobile Laboratory Division Scientific DMslon

### 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshkaghi

Date Sampled:

Oct 27, 1995

Ogiso Environmental

Date Heceived:

Oct. 27, 1995

1504 Franklin Street, Stille 304

Date Analyzed:

Oct. 31, 1995

Qakland, CA 9/612

Project Name:

Cypress & Phoenix

LAB ID:

\$T95-10-2751A

Client ID.

Project #

T.SOLVETOC3

Dilution:

1:

Matrix: Soil 5.	Amount	Reporting Limit	Units
Name	ND	5.0	nā',kā
Ethyl berzene	ND	10.0	ug/kg
Methylene chloride	ND	5.0	ug/kg
Styrene	Й	5.0	ug∕kg
Tetrachloruethene	ND	5,0	ug/kg
Coluene	ИD	5.0	ug/kg
Meta/Para-Xylenes	ND	5.0	цg/kg
Ortho-Xylenes	NE	6.0	ug/kg
trans - 1,3 - Dichloropropens	ND	5.0	ug/kg
Inchlorosthene	ND	5.Ú	. <u>"ე</u> /kg
Vinyl acetate Vinyl chloride	טא	5.0	ug/kg
Surrogate % Recovery 1,2 - Dichloroethano d-4 =		106%	
Surrogate % Recovery 1,2 5 Dichlorocolumns 5		122%*	
Surrogate % Recovery Tolliene d-8 = Surrogate % Recovery 4 - Bramofluorobenzene =		179%	

Prito -- parts be blau: it wyst, -- misrograms por clogicim nome parts por militar -- cyty-- misrograms por gra--NU = NOC Colsulad. Compound(s) may be present at manufactions below the reporting in a

Oct 31, 1995

D. L. Jamos, Principal Chemist

Date Reported

SPARGED TECHNIQUOGY ANALY (HIM. ) ARGINATORY, INC. IS CONTINED BY THE STATE OF EQUINCIPAL DEPARTMENT OF HEALTH SCHWICES AS A MAZARIP DID WASTE TESTING LADGRATORY (Gurillication too, 1014)

<sup>\*</sup> High surrogate percent recovery due to marrix effect



Page 1 of 2



Analytical Laboratory DMsIon Mobile Laboratory Division Scientific Division

### 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshtagni

Date Sampled: Date Hecerved: Oct 27, 1995

Ogisp Environmental

Oct 27, 1995

1504 Franklin Street, Stille 304

Oakland, CA 94612

Date Analyzed:

Oct. 31, 1995

Cypress B Planenix Project Name:

Project #: Client In.

T.GOLVETOC4

LAB ID:

ST95-10-2754A

Dilution:

1: 1

<u>Matrix:</u> Soil	Daumon: 3:		
Name:	Amount	Reporting Limit	Unita
1,1 - Dichloroethane	ND	5.0	ug/kg
1,1 - Dichlomethene	ND	5.0	ug/kg
1,1,1 - Trichloroethane	ИD	<b>\$</b> .0	nð\kā
1,1,2 - Trichkinethane	ND	5.0	nβ∖kβ
1,1,2,2 - Tetrachloroethane	ND	5.Q	ng∕kg
1,1,2,2 - retrains/rotinalis 1,2 - Dichloruethane	ND	5.0	ug/kg
cis - 1,2 - Dichkinnethene	ND	5.0	ug/kg
	DN	5.0	იმ/ცშ
1,2 - Dichloropropana trans - 1,2 - Dichloroethens	NĎ	6.9	ug/kg
	ND	10.0	uy∕kg
2 Butanone	ND	10.0	ug/kg
2 Hexanone 4 - Mothyl - 2 - penlanone	NU	10.0	ug/kg
_	ND	25.0	ug/kg
Acctone	ДИ	5.0	սց/ky
Benzenc Bromodichloromethans	ND	5.0	ug/kg
	ND	5.0	ug/kg
Bromotorm	ND	5.0	nd\ka
Bromomethane	ND	5.0	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachionde	שא	5.0	ug/kg
Chlorobenzene	NU	5.0	nā/kā
Chlomethane	ND	5.0	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	5.0	ug/kg
els - 1,3 - Dichloropropené	ND	5.0	ug/kg
Dibron wchloromethane			

bup a heite not payor - abyte a wrondume tal. sindkaw

Do. -- have con treitor a politic septiminations because

ND - Not Calected. Compressing may be present at present also a select the repairing limit.





### 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

Oct. 27, 1995

Ogisc Environmental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Analyzed:

Oct. 31, 1995

Project #

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC4

LABID:

B (95 10-2754A

Diletion

Amount	Reporting Limit	Units
ND	5.0	uy/kg
	10.0	ug/kg
	5.0	ug/kg
	5.0	ug/kg
		ug/kg
•		ug/kg
<del>-</del>		ug/kg
	=	ug/Kg
		ug/kg
<del>-</del>	•	ug/kg
·		ug/kg
UN	J.0	-33
=	100%	
	123%	
·	142%*	
	ND ND ND ND ND ND ND ND ND	ND 10.0 ND 5.0

ppb = set to set Liston — uples = misrograms por biogram
ppm= setto set million — epip addregrams por proPRD = Nucl Detected. Compound(c) may be prepert at nance trained become the sector by Ellis.

Oct 31, 1995 Date Reported

R. L. James, Principal Chemist

SHARCED TECHNOLOGY ANALYTICAL LANS THATLERY, INC. IS CONTINED BY THE STATE OF CALIFORNIA DEMANDERT OF HEALTH BERNGED AS A HAZARDOUS WAYNE INNINAN ABORATORY (Centicator: No. 1914)

<sup>\*</sup> High surrogate percent recovery due to matrix effect

<sup>&</sup>quot; Unknown hydrocarbons were found to be present



Page 1 of 2 Analytical Laboratory Division Mobile Laboratory Division Scientific DMston

### 8240 GCMS Analysis Report

Attention;

Mr. Hamid Mashtaghi

Ogise Environmental

1504 Franklin Street, Suite 304

Date Sampled:

Oct. 27, 1995

Date Receiver! Date Analyzed.

Oct. 27, 1996 Oct. 31, 1995

Oekland, CA 94612

Project Name:

Cypross B Phoenix

Client (D):

Project #;

T.SOI VSTOC5

LAB ID.

ST95-10 2757A

Matrix:

Soil

Ditainer

	Dilibirar 1:	1	
Name	Amount	Floored	
1.1 Dichloroethane	ND ND	Reporting Limit	Units
1.1 - Dichloroethene	CN	5.0	ug/kg
1.1.1 - Trichlomethane	ND 08	5.0	ug/kg
1.1.2 - Trichloroethane		5.0	ug/kg
1.1.2.2 - Tetrachkoroethane	ND	5.0	Ug/kg
1.2 - Dichtoroethane	NO	5.0	ug/kg
as - 1,2 - Dichloroethene	ND	5.0	⊎g/kg
1.2 - Dichkropropane	ND	5.0	ug/kg
trans • 1.2 - Dichloroethene	ND	. 5.0	ug/kg
2 - Butarware	ND	50	ug/kg
2 - Hexanone	מא	10.0	ug/kg
4 - Meiltyl - 2 - pentanone	ND	10.0	ug/kg
Anatome	NU	10.0	ug/kg
Beuzene	ND	25.0	up/kg
Bronodichloromethane	ND	5.0	ug/kg
Bromolom	ND	5.0	ug/ke
Brunomethano	ND	5.0	υσ/κο
Carbon disultide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	աց/հց ա <u>ք</u> /հց
Chlorobenzenc	ND	5.0	
Chlorocthane	ND	5.0	ug/ku
Chlorotom	ND	5.0	⊪g/kg
	ND	5.0	ug/kg
hioromethans	ND	5.0	<b>เ</b> คลิ/หนื
sis 1,3 - Dichloropropene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0 5.0	ug/kg
(A) is pourse par billion — ugdig — mileragrams mei Magram			ug/kg

dam boys bet wigners mit, 'n anautteur bet ban-

ND = NO Emarter Françound(e) may be present at unicariation's leader the importing land.



### 8240 GCMS Analysis Report

Attention;

Mr. Hamld Moshteghi

Date Sampled:

Oct. 27, 1995

Ogiso Environmental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Date Analyzod:

Oct. 31, 1995

Oakland, CA 04612

Project #:

Project Name:

Cypress B Phoenix

Client ID:

7.SULVSTOC5

LAB ID:

3T95-10-2757A

Matrix:

Marinx' 206	Dilution: 1:	1	
Name	Amount	Reporting Limit	
Ethyl benzene	ND		Units
Methylene chloride	·-	5.0	ug/kg
Styrene	ND	10.0	ug/kg
Tetrachloroctnene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kp
	ND	5.0	υσ/κο
Meta/Para Xylenes	ND	5.0	ug/kg
Ortho-Xylenes	ND	5.0	
trans 1,3 - Dichloropropiene	ND	5.0	⊔0/kg
Trichlorocthene	ND	= - =	π6√rΩ
Vinyi scetate	ND	5.0	ug/kg
Vinyl chloride		6.0	նլյ/kլյ
	ND	5.0	ug/ky
Surrogate % Recovery 1,2 - Dichlorocthane d-4 =		4 17 10 14	
Surrogate % Recovery Toluena d-8 =		103%	
Surrogate % Recovery 4 - Bromofluorobenzene =		101%	
	:	91%	

000 a parts for folion — uptg — manager na per klimness 0011- parts nor million — uptg - misrograma per grizm NO = NOt Uphaston - Com pound(s) mby 6c present at Mouest alberts herein the reporting for s

R. L. James, Principal Chamist

Oct 31, 1995

Date Reported

ARME IN IND BO STATE SHE'NG CONTITIED SI DAY, YROTARDHA I JAJIEYJAMA YEQUCHIDDE DIDDRAGS CEPAHIMENT OF MEALTH SERVICES AS A INCARDOUS WASTE TENING LABORATORY (Certification waiteta)





# 8240 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Date Samplest:

Oct. 27, 1995

Ogisc Environmental

Date Neceived:

Oct. 27, 1995

1504 Frank in Street, Guite 304 Daluand, CA 94612

Uate Analyzed:

Oct. 31, 1995

Project Name:

Cypress R Phoenix

Cilent ID:

Project #:

T SOLVSTOCE

LAD ID:

6 195-10-2760A

Matrix:

Soil

Dilution. 1:

	Dilution, 1:	1	
Name	4	_	
1,1 Dichloroethane	Arriount	Reporting Limit	Units
1,1 - Dichloroethene	NO	5.0	ug/kg
3.1.1 - Trichloroethanc	ND	5.0	ນໆ/kg ພູຍ∕kg
1.1.2 - Trichkmethane	ND	5.0	
1.1.2.2 · Tetrachlorecthane	ND	5.0	∺rg/kg
1.2 - Dichlomethana	ND	5.0	ng/kg
cia - 1,2 - Dichloroethana	ND	5.0	r g/kg
1,2 • Dichipropropage	CM	5.0	n0⁄k3
trans - 1,2 - Dichloroethene	ND	5.0	uy/kg
2 - Bulanone	ND	5.0	ug/kg
2 - Hexariono	ND	10.0	ug/kg
4 - Melhyl - 2 - pentanone	ND	10.0	ug/kg
Acetone	ND	10.0	ug/kg
Benzene	NU		ug/kạ
Oromodichloromethane	ND	25.0	ug/kg
Burnolom	ND	5.Q	ug/kg
enchience	ND	5.0	ug/kg
arbon disulfide	ND	<b>5.0</b>	ug/kg
arbon tetrachicride	ND	5.0	ug/kg
hlorobenzene	ND	5.0	ug/kg
ploreer	מא מא	5.0	ug/kg
hiorocthane	ND ENS	5.0	ug/kg
hiorotom		5.0	ug/kg
hloromethanie	ND NO	5.0	ug/kg
€ 1.3 - Dichluropropone	ND	5.0	ug/kg
ipromochlaromethane	ND	5.0	- •
e pares par bigon a pares	ND	5.0	მე/ <b>k</b> ე იაქიი
me parte per midlion e representative per vibarios.			<u>nB\</u> kg

ND a New Consisted. Compound(s) may be present at mechanistions below the reserving and



**2**918 362 0947

Page 2 of 2 Analytical Laboratory Division Mobile Laboratory Division **Scientific Division** 

## 8240 GCMS Analysis Report

Attention:

idesthack binnsh nM

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Date Received Date Analyzed:

Oct. 27, 1995 Oct. 27, 1995

Oct. 31, 1995

Project 4:

Project Name:

Cypress B Philipping

Client ID:

T BOLVSTOCK

LABID:

ST95 10-2700A

Matrix:

Soil

Dilenia

<del></del> -	Dilution: 1:	1	
Name	4		
Ethyl benzene	Amount	Heporting Limit	Unita
Methylene chloride	ND	5.0	Ug/kg
Styrene	NO	10.0	บ <b>ด</b> /kg
l etrachloruethene	ND	5.0	ug/kg
Toluene	1,3	5.0	ug/ko
Meta/Parx-Xylenes	ND	5.0	ug/kg
Ortho-Kyteries	ΝŬ	5.6	ug/kg
trans - 1,3 - Dichioropropene	ND	5.0	ug/kg
Trichloroethana	ND	5,0	· · ·
Vinyl acetate	ND	5.0	nc\/c
Vinyl chiloride	ND	5.0	ug/kg
suit (1800 <b>0</b> 8	ND	5.0	ug/kg
Domestic de la la		J.V	<b>იმ</b> /ცმ
Surroyate % Recovery 1.2 - Dichloroethane d-4 =	•	10cer	
Grandy 26 76 Recovery Toluens d.8.		105%	
Surregate % Recovery 4 - Bromofluorobenzene =		103%	
	•	77%	

pos – ponto per billum is signing as incomprising per videgram; point parts per matria, is supple marringrame per grean list – that Document. Considerations may not proceed at content staffants distout the reporting similar

R. L. James, Pancipal Chemist

Oct 31, 1996 Date Reported

SMAKERR TEEPHOLOGY ANALYTICAL LAW MATORY, INC. IS CORTIFICULAY THE STATE OF CALIFORNIA POTARODAL ON TO STAND THE CASE MESS HELD THE TRANSPORT OF THE METERS OF THE STANDARD OF THE ST (Certication No. 1814)



#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC1

LAB ID:

ST95-10-2746A

Matrix:

Soil

Dilution:

1: 1

Name Amount Reporting Limit Units 1,2 - Dichlorobenzene ND 330 ug/kg 1.2.4 - Trichlorobenzene ND 330 ug/kg 1,3 - Dichlorobenzene ND 330 ug/kg 1.4 - Dichlorobenzene ND 330 ug/kg 2 - Chloronaphthalene ND 330 ug/kg 2 - Chlorophenoi ND 330 ug/kg 2 - Methylnaphthalene ND 330 ug/kg 2 - Methylphenol ND 330 ug/kg 2 - Nitrophenol ND 330 ug/kg 2,4 - Dichlorophenol 330 ND ug/kg 2,4 - Dimethylphenol ND 330 ug/kg 2.4 - Dinitrophenol ND 1600 ug/kg 2.4 - Dinitrotoluene ND 330 ug/kg 2,4,5 - Trichlorophenol ND 1600 ug/kg 2,4,6 - Trichlorophenol ND 330 ug/kg 2.6 - Dinitrotoluene ND 330 ug/kg 2 - Nitroaniline ND 1600 ug/kg 3,3' - Dichlorobenzidine ND 660 ug/kg 3 - Nitroaniline ND 1600 ug/kg 4 - Bromophenyl - phenylether ND 330 ug/kg 4 - Chloro • 3 - Methylphenol ND 330 ug/kg 4 - Chloroaniline ND 330 ug/kg 4 - Methylphenol ND 330 ug/kg 4 - Nitroaniline ND 1600 ug/kg 4 - Nitrophenol ND 1600 ug/kg 4,6 - Dinitro - 2 - Methylphenol ND 1600 ug/kg 4 - Chlorophenyl - phenylether ND 330 ug/kg Acenaphthene ND 330 ug/kg Acenaphthylene ND 330 ug/kg

ppb = parts per billion = ug/kg = mlcrograms per kilogram

ppmz pans per million = ug/g= micrograms per gram

NO = Not Detected. Compound(s) may be present at concentrations below the reporting limit







### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC1

LAB ID:

ST95-10-2746A

Matrix:

Soil

Dilution:

1.

Name_	Amount	Reporting Limit	Units
Anthracene	480	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perylene	ND	330	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyl Alcohol	ND	330	ug/kg
bis ( - 2 - Chloroethoxy) Methane	ND	330	ug/kg
bis ( - 2 - Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 - Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di - N - Butylphthalate	ND	330	ug/kg
Di - N - Octyl Phthalate	ND	330	ug/kg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	470	330	ug/kg
Fluorene	ND	330	
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno (1,2,3 - cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
			ug/kg
N - Nitroso - Di - Propylamine	ND	330	ug/kg

ppb = psits per billion = ug/kg = miorograms per kilogram

pons parts per million = ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



Page 3 of 3

**Analytical Laboratory Division** Mobile Laboratory Division Scientific Division

#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995 Oct. 27, 1995 Date Received:

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC1

LAB ID:

ST95-10-2746A

Matrix:

Soil

Dilution:

1:

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	<b>33</b> 0	ug/kg
Pyrene	410	330	ug/kg
Surrogate % Recovery 2 - Fluoro	phenol =	50%	
Surrogate % Recovery Phenol - o		49%	
Surrogate % Recovery Nitroben:		39%	

42% Surrogate % Recovery 2 - Fluorobiphenyl = Surrogate % Recovery 2,4,6 - Tribromophenol = 59% Surrogate % Recovery Terphenyl - d14 = 42%

ppb = perts per billion = ug/kg = miorograms per kilogram

pome parts per million w vo/ge micrograms per gram

ND = Not Dotacted. Compound(s) may be present at concentrations below the reporting #m#.

R. L. James, Principal Chemist

Oct 31, 1995

**Date Reported** 

Unknown aliphatic hydrocarbons were found to be present

Page 1 of 3





19:29

#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

**Date Received:** 

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC2

LAB ID:

ST95-10-2749A

Matrix:

Şoil

Dilution:

1: 1

Name	Amount	Reporting Limit	Units
1,2 - Dichlorobenzene	ND	330	ug/kg
1,2,4 - Trichlorobenzene	ND	330	υg/kg
1,3 - Dichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 - Chloronaphthalene	ND	330	ນg/kg
2 - Chlorophenol	МĎ	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
2 - Methylphenol	ND	330	ug/kg
2 - Nitrophenol	ND	330	ug/kg
2,4 - Dichlorophenol	ND	330	ug/kg
2,4 - Dimethylphenol	ND	330	ug/kg
2,4 - Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	ND	1600	ug/kg
2,4,6 - Trichlorophenol	ND	330	ug/kg
2,6 - Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	1600	ug/kg
3,3' - Dichlorobenzidine	ND	660	ug/kg
3 - Nitroaniline	ND	1600	ug/kg
4 - Bromophenyl - phenylether	ND	330	ug/kg
4 - Chloro - 3 - Methylphenol	ND	330	ug/kg
4 - Chloroaniline	ND	330	ug/kg
4 - Methylphenoi	ND	330	ug/kg
4 - Nitroaniline	ND	1600	ug/kg
4 - Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	ug/kg
4 - Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg

ppb = parts par billion = up/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Datecled. Compound(s) may be present at concentrations below the reporting limit.





### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled: Date Received: Oct. 27, 1995 Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC2

LAB ID:

ST95-10-2749A

Matrix:

Soil

Dilution:

1:

Name	Amount	Reporting Limit	Units
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perylene	ИĎ	330	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyl Alcohol	ND	330	ug/kg
bis ( - 2 - Chloroethoxy) Methane	ND	330	ug/kg
bis ( - 2 - Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 - Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND.	330	ug/kg
Di - N - Butylphthalate	ND	330	ug/kg
Di - N - Octyl Phthalate	ND	330	ug/kg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
indeno (1,2,3 - cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N - Nitroso - Di - Propylamine	ND	330	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

spm= parte per million = ug/g= micrograms por gram

ND - Not Detected. Compound(s) may be present at concentrations below the reporting limit.





#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

Oct. 27, 1995

Ogiso Environmental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Date Analyzed:

Oct. 31, 1995

Oakland, CA 94612

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC2

LAB ID:

ST95-10-2749A

Matrix:

Soil

Dilution:

1: 1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	МD	330	ug/kg
Pentachiorophenol	ND	1600	ug/kg
Phenanthrene	МD	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
Surrogate % Recovery 2 - Fluorog	ohenoi =	45%	
Surrogate % Recovery Phenol - d		41%	
Surrogate % Recovery Nitrobenzene - d5 =		36%	•
Surrogate % Recovery 2 - Fluorobiphenyl =		41%	
Surrogate % Recovery 2,4,6 - Tribromophenol =		56%	
Surrogate % Recovery Terpheny		40%	

ppb = parts per billion = ugrkg = micrograms per kilogram

ppm= parts per malion = ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

R. L. James, Principal Chemist

Oct 31, 1995

**Date Reported** 

<sup>\*</sup> Unknown aliphatic hydrocarbons were found to be present

19:33



Page 1 of 3

Analytical Laboratory Division Mobile Laboratory Division Scientific Division

#### 8270 GCMS Analysis Report

Attention:

10/31/95

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC3

LAB ID:

ST95-10-2752A

Matrix:

Soil

Dilution:

1: 1

Alama	A	Donastina Limit	Units
Name  1,2 - Dichlorobenzene	Amount ND	Reporting Limit 330	ug/kg
1,2,4 - Trichlorobenzene	ND	330	ug/kg
1,3 • Dichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 - Chloronaphthalene	ND	330	ug/kg
2 - Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
•	ND	330	ug/kg
2 - Methylphenol	ND	330	ug/kg
2 - Nitrophenol	ND	330	ug/kg
2,4 - Dichlorophenol		330	
2,4 - Dimethylphenol	ND		ug/kg
2,4 - Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	ND	1600	ug/kg
2,4,6 - Trichlorophenol	ND	330	ug/kg
2,6 - Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	1600	⊔g∕kg
3,3' - Dichlorobenzidine	ND	660	ug/kg
3 - Nitroaniline	ND	1600	ug/kg
4 - Bromophenyl - phenylether	ND	330	ug/kg
4 - Chioro - 3 - Methylphenol	ND	330	ug/kg
4 - Chloroaniline	ND	330	ug/kg
4 - Methylphenol	ND	330	ug/kg
4 - Nitroaniline	ND	1600	ug/kg
4 - Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	ug/kg
4 - Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= peris per million = ug/g= misragroms per gram

ND a Not Detected. Compound(s) may be present at concentrations below the reporting limit.





19:33

#### Analytical Laboratory Division Mobile Laboratory Divis Scientific Division

#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Date Received:

Oct. 27, 1995 Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC3

LAB ID:

ST95-10-2752A

Matrix:

Soil

Dilution:

1: 1

Amount	Reporting Limit	Units
ND	330	ug/kg
ND	1600	ug/kg
ND	330	ug/kg
ИD	330	ug/kg
ND	330	uġ/kg
ND	330	ug/kg
ND		ug/kg
ND		ug/kg
ND		ug/kg
ND	330	ug/kg
ND	- ·	ug/kg
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ND 330

ppb = parts per billion = ug/kg = micrograms por kilogram

ppms parts per million = ug/g= micrograms per prem

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

Oct. 27, 1995

Ogiso Environmental

Date Received:

Oct. 27, 1995

1504 Franklin Street, Suite 304

Date Analyzed:

Oct. 31, 1995

Oakland, CA 94612

Project #:

Project Name:

Cypress B Phoenix

Client ID:

P.SOLVSTOC3

LAB ID:

ST95-10-2752A

Matrix:

Soil

Dilution:

1: 1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
Surrogate % Recovery 2 - Fluorophenol =		50%	
Surrogate % Recovery Phenol - d6 =		50%	
Surrogate % Recovery Nitroben:		39%	
Surrogate % Recovery 2 - Fluorobiphenyi =		41%	
Surrogate % Recovery 2,4,6 - Tribromophenol =		63%	
Surrogate % Recovery Terpheny	•	40%	

ppb = parts por billion = ug/kg = mlorograms per kilogram

pare-parts per million = ug/g= micrograms per gram

NO - Not Detected. Compound(s) may be present at consentrations below the reporting limit.

Unknown aliphatic hydrocarbons were found to be present

R. L. James, Principal Chemist

Oct 31, 1995

**Date Reported** 



### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC4

LAB ID:

ST95-10-2755A

Matrix:

Soil

Dilution:

1:

1

Name	Amount	Reporting Limit	Units
1,2 - Dichlorobenzene	ND	330	ug/kg
1,2,4 - Trichlorobenzene	ND	330	ug/kg
1,3 - Dichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 - Chioronaphthalene	ND	330	ug/kg
2 - Chiorophenoi	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
2 - Methylphenol	ND	330	
2 - Nitrophenol	ND	330	ug/kg
2.4 - Dichlorophenol	ND	330	ug/kg
2,4 - Dimethylphenol	ND	330	ug/kg
2.4 - Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	ND	1600	ug/kg
2.4,6 - Trichlorophenol	ND	330	ug/kg
2.6 - Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	1600	ug/kg
3,3' - Dichlorobenzidine	ND	660	ug/kg
3 - Nitroaniline	ND	1600	ug/kg
4 - Bromophenyi - phenylether	ND		ug/kg
4 - Chloro - 3 - Methylpheno!	ND	330	ug/kg
4 - Chloroaniline	ND	330	ug/kg
4 - Methylphenol	ND	330	ug/kg
4 - Nitroaniline		330	ug/kg
4 - Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	ug/kg
4 - Chlorophenyl - phenylether	ND	1600	บg∕kg
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
pob = parts per billion = norkq = micrograms der kilogram	ND	330	ug/kg

pome parts per militon = ug/g= micrograms por gram

ND = Not Detected. Campound(a) may be present at concentrations below the reporting limit.

10/31/95





#### Analytical Laboratory Division Mobile Laboratory Division Scientific Division

#### 8270 GCMS Analysis Report

TIM YUE

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC4

LAB ID:

ST95-10-2755A

Matrix:

Soil

Dilution:

1: 1

Name	Amount	Reporting Limit	<u>Units</u>
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perylene	ND	330	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kģ
Benzoic Acid	ND	1600	ug/kg
Benzyi Alcohol	ND	330	ug/kg
bis ( - 2 - Chloroethoxy) Methane	ND	330	u <b>g</b> /kg
bis ( - 2 - Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 - Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di - N - Butylphthalate	ND	330	ug/kg
Di - N - Octyl Phthalate	ND	330	ug/kg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	u <b>g</b> /kg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno (1,2,3 - cd) Pyrene	ND	330	บg/kg
Isophorone	ND	330	ug/kg
N - Nitroso - Di - Propylamine	ND_	330	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= perts per million = ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting time.



Page 3 of 3

Analytical Laboratory Divis

Mobile Laboratory Divis

Scientific Division

### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Date Received:

Oct. 27, 1995 Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC4

LAB ID:

ST95-10-2755A

Matrix:

Soil

Dilution:

1: 1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachloropheno!	ND	1600	ug/kg
Phenanthrene	ND	330	ng/kg
Phenol	ND	330	
Pyrene	ND	330	ug/kg ug/kg
Surrogate % Recovery 2 - Fluoro	phenol =	38%	
Surrogate % Recovery Phenol - d	i6 =	39%	
Surrogate % Recovery Nitrobenz		32%	
Surrogate % Recovery 2 - Fluoro	hinhenyl =	37%	
Surrogate % Recovery 2,4,6 - Tril	hromonhenol —		
Surrogate % Recovery Terpheny	// // // - // // // // // // // // // //	67% 47%	

ppb = pens per blillon = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= m/programs per gram

ND  $\pi$  Not Detected. Compound(s) may be present at concentrations below the reporting limit.

\* Unknown aliphatic hydrocarbons were found to be present

R. L. James, Principal Chemist

Oct 31, 1995

Date Reported





#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC5

LAB ID:

ST95-10-2758A

Matrix:

Soil

Dilution:

: 1

Name	Amount	Reporting Limit	Units
1,2 - Dichlorobenzene	ND	330	ug/kg
1,2,4 - Trichlorobenzene	ND	<b>330</b> ,	ug/kg
1,3 - Dichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 - Chloronaphthalene	ND	330	ug/kg
2 - Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
2 - Methylphenol	NÞ	<b>33</b> 0	ug/kg
2 - Nitrophenol	ND	330	ug/kg
2,4 - Dichlorophenol	ND	330	ug/kg
2,4 - Dimethylphenol	ND	330	ug/kg
2,4 - Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	ND	1600	ug/kg
2.4,6 - Trichlorophenol	ND	330	ug/kg
2,6 - Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	1600	ug/kg
3,3' - Dichlorobenzidine	ND	660	ug/kg
3 - Nitroaniline	ND	1600	ug/kg
4 - Bromophenyl - phenylether	ND	330	ug/kg
4 - Chloro - 3 - Methylphenol	ND	330	ug/kg
4 - Chloroaniline	ND	330	ug/kg
4 - Methylphenol	МĎ	330	ug/kg
4 - Nitroaniline	ИD	1600	ug/kg
4 - Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	ug/kg
4 - Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg

ppb = parts por billion = ug/kg > micrograms per kilogram

ppm= pens per million = ug/g= micrograms per gram

NO  $\pm$  Not Detocted. Compound(s) may be present at concentrations below the reporting limit,

Page 2 of 3



### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

**2**916 362 0947

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLV\$TOC5

LAB ID:

ST95-10-2758A

Matrix:

Soil

Dilution:

1:

Name	Amount	Reporting Limit	Units
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perylene	ND	330	ng/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyl Alcohol	ND	330	ug/kg
bis ( - 2 - Chloroethoxy) Methane	ND	330	ug/kg
bis ( - 2 - Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 - Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di - N - Butylphthalate	ND	330	ug/kg
Di - N - Octyl Phthalate	ND	330	ug/kg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno (1,2,3 - cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N - Nitroso - Di - Propylamine	ND	330	ug/kg
opb > parts per billion = up/kg = micrograms per kilogram		330	ug/kg

opo - paris per billion = up/kg = micrograms per kilogram





### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC5

LAB ID:

ST95-10-2758A

Matrix:

Soil

Dilution:

1:

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
Surrogate % Recovery 2 - Fluorog	ohenol =	47%	
Surrogate % Recovery Phenol - d		47%	
Surrogate % Recovery Nitrobenzene - d5 =		37%	•
Surrogate % Recovery 2 - Fluorobiphenyl =		41%	
Surrogate % Recovery 2,4,6 - Tribromophenol =		62%	
Surrogate % Recovery Terpheny		46%	

ppb = parts per billion = ug/kg = micrograms por kilogram

pomi- parts per million = ug/g= microgrems per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

R. L. James, Principal Chemist

Oct 31, 1995

**Date Reported** 



Page 1 of 3
Analytical Laboratory Division
Mobile Laboratory Division

### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC6

LAB ID:

ST95-10-2761A

Matrix:

Soil

Dilution:

1: 1

Amount	Reporting Limit	Units
ND	330	ug/kg
ND	330	ug/kg
ND	<b>3</b> 30	ug/kg
ND	330	ug/kg
ND		ug/kg
ND		ug/kg
ND		ug/kg
		ug/kg
ND		ug/kg
		- ·
		ug/kg
		ug/kg ug/kg
	22222222222222222222222222222222222222	ND 330 ND 1600 ND 330 ND 1600 ND 1600 ND 1600 ND 1600 ND 1600 ND 1600 ND 330

ppb - parts per billion = ug/kg - micrograma per kilogram

ppm= parts per million a right microbierus ber firsu

 $KD \approx Not Datected.$  Compound(s) may be present at concentrations below the reporting limit.





### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995

Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC6

LAB ID:

ST95-10-2761A

Matrix:

Soil

Dilution:

1: 1

Name	Amount	Reporting Limit	Units
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perylene	ND	330	ug/kg
Benzo (k) Fluoranthene	МD	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyl Alcohol	ND	330	ug/kg
bis ( - 2 - Chloroethoxy) Methane	ND	330	ug/kg
bis ( - 2 - Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 - Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di - N - Butylphthalate	ND	330	ug/kg
Di - N - Octyl Phthalate	ND	330	ug/kg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
indeno (1,2,3 - cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N - Nitroso - Di - Propylamine	ND	330	ug/kg

ppb ± parta par billion ≥ ug/kg = micrograms per kilogram

pome parts per million « ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



Page 3 of 3

Analytical Laboratory Divisia Mobile Laboratory Divis Scientific Division

#### 8270 GCMS Analysis Report

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, Suite 304

Oakland, CA 94612

Date Sampled:

Oct. 27, 1995 Date Received:

Oct. 27, 1995

Date Analyzed:

Oct. 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC6

LAB ID:

ST95-10-2761A

Matrix:

Soil

Dilution:

1:

1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachiorophenol	ND	1600	ug/kg
Phenanthrene	МD	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene :	ND	330	ug/kg
Surrogate % Recovery 2 - Fluoropi	henol =	45%	
Surrogate % Recovery Phenol - de		44%	
Surrogate % Recovery Nitrobenze		39%	
Surrogate % Recovery 2 - Fluorob		41%	
Surrogate % Recovery 2,4,6 - Tribe		51%	
Surrogate % Recovery Terphenyl		33%	

ppb = parts per billion = ug/kg = micrograms per kilogram

Opms parts per million a up/p- micrograms per gram

ND = Not Detected. Compound(s) may be present at concontrations below the reporting limit,

R. L. James, Principal Chemist

Oct 31, 1995

**Date Reported** 

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Cartification No. 1614)

<sup>\*</sup> Unknown aliphatic hydrocarbons were found to be present



### Metals, CAM 17 EPA Method 6010/7000 Modified

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

Oct 27, 1995

Ogiso Environmental

Date Received:

Oct 27, 1995

1504 Franklin Street, # 304 Oakland, CA 94612

Date Analyzed:

Oct 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC1

LAB ID:

ST95-10-2747A

Matrix:

Soil

Dilution:

		Reporting		
Name	Amount	Limit	Units	
Antimony (Sb)	ND	6.0	mg/Kg	
Arsenic (As)	ND	10	mg/Kg	
Barium (Ba)	150	10	mg/Kg	
Beryllium (Be)	ND	0.50	mg/Kg	
Cadmium (Cd)	0.60	0.50	mg/Kg	
Chromium (Cr)	39	1.0	mg/Kg	
Cobalt (Co)	6.8	5.0	mg/Kg	
Copper (Cu)	50	2.5	mg/Kg	
Lead (Pb)	1900	2.0	mg/Kg	
Mercury (Hg)	0.13	0.010	mg/Kg	
Molybdenum (Mo)	ND	4.0	mg/Kg	
Nickel (Ni)	24	4.0	mg/Kg	
Selenium (Se)	ND	10	mg/Kg	
Silver (Ag)	ND	1.0	mg/Kg	
Thallium (TI)	ND	10	mg/Kg	
Vanadium (V)	27	5.0	mg/Kg	
Zinc (Zn)	220	1.5	mg/Kg	

pome parts per million = mg/Kg = milligram per Kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 1, 1995



### Metals, CAM 17 EPA Method 6010/7000 Modified

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

JANTI R. TAM

Oct 27, 1995

Ogiso Environmental

Date Received:

Oct 27, 1995

1504 Franklin Street, # 304 Oakland, CA 94612

Date Analyzed:

Oct 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC2

LAB ID:

ST95-10-2750A

Matrix:

Soil

Dilution:

		Reporting		
Name	Amount	Limit	Units	
Antimony (Sb)	ND	6.0	mg/Kg	
Arsenic (As)	ND	10	mg/Kg	
Barium (Ba)	130	10	mg/Kg	
Beryllium (Be)	ND	0.50	mg/Kg	
Cadmium (Cd)	ND	0.50	mg/Kg	
Chromium (Cr)	38	1.0	mg/Kg	
Cobalt (Co)	5.9	5.0	mg/Kg	
Copper (Cu)	46	2.5	mg/Kg	
Lead (Pb)	1400	2.0	mg/Kg	
Mercury (Hg)	0.070	0.010	mg/Kg	
Molybdenum (Mo)	ND	4.0	mg/Kg	
Nickel (Ni)	24	4.0	mg/Kg	
Selenium (Se)	ND	10	mg/Kg	
Silver (Ag)	ND	1.0	mg/Kg	
Thallium (TI)	ND	10	mg/Kg	
Vanadium (V)	25	5.0	mg/Kg	
Zinc (Zn)	180	1.5	mg/Kg	
			3 -3	

pom= parte per million = mg/Kg = milligram per Kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 1, 1995



### Metals, CAM 17 **EPA Method 6010/7000 Modified**

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, # 304

Oakland, CA 94612

Date Sampled:

JANII R. IAM

Date Received:

Date Analyzed:

Oct 27, 1995

Oct 27, 1995

Oct 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC3

LAB ID:

ST95-10-2753A

Matrix:

Soil

Dilution:

Name	Reporting Amount Limit Units			
	Amount	Latitut	Units	
Antimony (Sb)	ND	6.0	mg/Kg	
Arsenic (As)	ND	10	mg/Kg	
Barium (Ba)	120	10	mg/Kg	
Beryllium (Be)	ND	0.50	mg/Kg	
Cadmium (Cd)	ND	0.50	mg/Kg	
Chromium (Cr)	35	1.0	mg/Kg	
Cobalt (Co)	6.3	5.0	mg/Kg	
Copper (Cu)	34	2.5	mg/Kg	
Lead (Pb)	550	2.0	mg/Kg	
Mercury (Hg)	0.093	0.010	mg/Kg	
Molybdenum (Mo)	ND	4.0	mg/Kg	
Nickel (Ni)	23	4.0	mg/Kg	
Selenium (Se)	ND	10	mg/Kg	
Silver (Ag)	ND	1.0	mg/Kg	
Thallium (TI)	ND	10	mg/Kg	
Vanadium (V)	25	5.0	mg/Kg	
Zinc (Zn)	180	1.5	mg/Kg	

opm= parts per milion = mg/Kg = milligram per Kliogram

ND = Not Dotoctod. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 1, 1995



### Metals, CAM 17 EPA Method 6010/7000 Modified

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

JANTI R. TAM

Oct 27, 1995

Ogiso Environmental

Date Received:

Oct 27, 1995

1504 Franklin Street, # 304

Date Analyzed:

Oct 31, 1995

Oakland, CA 94612

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC4

LAB ID:

ST95-10-2756A

Matrix:

Soil

Dilution:

		Reporting		
Name	Amount	Limit	Units	
Antimony (Sb)	ND	6.0	mg/Kg	
Arsenic (As)	ND	10	mg/Kg	
Barium (Ba)	43	10	mg/Kg	
Beryllium (Be)	ND	0.50	mg/Kg	
Cadmium (Cd)	ND	0.50	mg/Kg	
Chromium (Cr)	29	1.0	mg/Kg	
Cobalt (Co)	5.4	5.0	mg/Kg	
Copper (Cu)	12	2.5	mg/Kg	
Lead (Pb)	52	2.0	mg/Kg	
Mercury (Hg)	0.022	0.010	mg/Kg	
Molybdenum (Mo)	ND	4.0	mg/Kg	
Nickel (Ni)	24	4.0	mg/Kg	
Selenium (Se)	ND	10	mg/Kg	
Silver (Ag)	ND	1.0	mg/Kg	
Thallium (Ti)	ND	10	mg/Kg	
Vanadium (V)	21	5.0	mg/Kg	
Zinc (Zn)	59	1.5	mg/Kg	

ppma parts per million = mg/Kg = milligram per Kilogram

NO  $\pi$  Not Detected. Compound(s) may be present at concentrations below the detection first.

R. L. James, Principal Chemist

Nov 1, 1995



### Metals, CAM 17 **EPA Method 6010/7000 Modified**

Attention:

Mr. Hamid Moshtaghi

Date Sampled:

JANTI R. TAM

Oct 27, 1995

Ogiso Environmental

Date Received:

Oct 27, 1995

1504 Franklin Street, # 304

Date Analyzed:

Oct 31, 1995

Oakland, CA 94612

Project Name:

Cypress B Phoenix

Client ID:

Project #:

T.SOLVSTOC5

LAB ID:

ST95-10-2759A

Matrix:

Soil

Dilution:

		Reporting		
Name	Amount	Limit	Units	
Antimony (Sb)	ND	6.0	mg/Kg	
Arsenic (As)	ND	10	mg/Kg	
Barium (Ba)	46	10	mg/Kg	
Beryllium (Be)	ND	0.50	mg/Kg	
Cadmium (Cd)	ND	0.50	mg/Kg	
Chromium (Cr)	35	1.0	mg/Kg	
Cobalt (Co)	ND	5.0	mg/Kg	
Copper (Cu)	13	2.5	mg/Kg	
Lead (Pb)	8.0	2.0	mg/Kg	
Mercury (Hg)	0.014	0.010	mg/Kg	
Molybdenum (Mo)	ND	4.0	mg/Kg	
Nickel (Ni)	20	4.0	rng/Kg	
Selenium (Se)	ND	10	mg/Kg	
Silver (Ag)	ND	1.0	mg/Kg	
Thallium (TI)	ND	10	mg/Kg	
Vanadium (V)	23	5.0	mg/Kg	
Zinc (Zn)	22	1.5	mg/Kg	

pom≠ parts per milition > mg/Kg = milligram per Kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit,

R. L. James, Principal Chemist

Nov 1, 1995



### Metals, CAM 17 EPA Method 6010/7000 Modified

Attention:

Mr. Hamid Moshtaghi

Ogiso Environmental

1504 Franklin Street, # 304

Oakland, CA 94612

Date Sampled:

JANIE R. 1AM

Oct 27, 1995 Date Received:

Date Analyzed:

Oct 27, 1995 Oct 31, 1995

Project #:

Project Name:

Cypress B Phoenix

Client ID:

T.SOLVSTOC6

LAB ID:

ST95-10-2762A

Matrix:

Soil

Dilution:

	Reporting			
Name	Amount	Limit	Units	
Antimony (Sb)	NĎ	6.0	mg/Kg	
Arsenic (As)	ND	10	mg/Kg	
Barium (Ba)	52	10	mg/Kg	
Beryllium (Be)	NĎ	0.50	mg/Kg	
Cadmium (Cd)	ND	0.50	mg/Kg	
Chromium (Cr)	. 44	1.0	mg/Kg	
Cobalt (Co)	5.3	5.0	mg/Kg	
Copper (Cu)	12	2.5	mg/Kg	
Lead (Pb)	41	2.0	mg/Kg	
Mercury (Hg)	17.7	<b>0.01</b> 0	mg/Kg	
Molybdenum (Mo)	ND	4.0	mg/Kg	
Nickel (Ni)	24	4.0	mg/Kg	
Selenium (Se)	ND	10	mg/Kg	
Silver (Ag)	ND	1.0	mg/Kg	
Thallium (TI)	ND	10	mg/Kg	
Vanadium (V)	27	5.0	mg/Kg	
Zinc (Zn)	41	1.5	mg/Kg	

ppm- parts per million = mg/Kg = milligram per Kliogram

NO - Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Nov 1, 1995

#### APPENDIX D:

#### CONTAMINATED SOIL DISPOSAL MANIFESTS

92720675 WITHIN CALIFORNIA, CALL 1-800-852-

E CENTER 1-800-424-8802:

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL REST

#### See Instructions on back of page 6.

Department of Toxic Substances Co. Socramento, Colifornia

UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifest Document N	lo.		Information in the is not required by	
WASTE MANIFEST	واداه اواد اواماه اعلماء	191012	11	of 1		
Generator's Name and Mailing Address	CALIFORNIA DEPARTMENT O TRANSPORTATION 1545 WILLOW STREET	F	- 41 - 41		9272	):i/:
Generator's Phone (510) 226-1	OAKLAND, CA 94607	9	in and		ve-15 (6-12)	Site in
Transporter 1 Company Name	6. US EPA ID Number				SOFFIX	1
T N C 1/10 Transporter 2 Company Name	ELIDIALEO A	17584	in in		1.7	45
			# 6			
Designated Facility Name and Site Addr		V 1. 111 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
AIDLAN ENVIRONMENTAL 2500 WEST LOKERN ROAL BUTTONELLLOW CA 93		alelalale	* *		15/5/1	
	nipping Name, Hazard Class, and ID Number)	12. Conto	ners.	13. Total	14. Unit	19.31
0.		No.	Туре	Quantity	W1/Vol Miles	alle Number
"RQ" HAZARDOUS V	MASTE SOLID , 9 (LEAD)	alala)		010101/18	Y	311
b.		0.0	I T	010101. 10		
	190	-11	1	1111		e
					多可 表文	î. Sê,
d.		-+11	-		1000	
270		155	,	1111	7.75	
Special Handling Instructions and Addit	V.11 ( vexi)			):		, ,4
WO# 75085	CONTACT ANDREW NORRIS (5					
GENERATOR'S CERTIFICATION: I he packed, marked, and labeled, and are	reby declare that the contents of the consignment are in all respects in proper condition for transport by h	e fully and accurately ighway according to c	described opplicable	above by proper tederal, state and	shipping name and international laws	d are classifie
economically practicable and that I ha	certify that I have a program in place to reduce the selected the practicable method of treatment, stamment; OR, if I am a small quantity generator, I have	orage, or disposal cur	rently ave	ilable to me which	minimizes the pro	esent and fut
nted/Typed Nome South	Signature Signature	7.1	٠.	18	Month / / /	Day / 15-1
Transporter 1 Acknowledgement of Reconted/Typed Name	MIDSON Signature	to do	dr.	ī	Month / / /	10017
<ol> <li>Transporter 2 Acknowledgement of Rec inted/Typed Name</li> </ol>	eigt of Moterials Signature		2:		Month	Day 
Discrepancy Indication Space						
	9					
). Facility Owner or Operator Certification inted/Typed Name	n of receipt of hazardous materials covered by this	manifest except as no	ted in Item	n 19.	1 100-4	Davi
med/Typed Name	Signature				Month	Day

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Went age 1 DO NOT WRITE SHOW THIS LINE.

Signature

20. Facility Owner or Operator Certification of record of houseafters unbasilely Even of by this manifest except as noted

OTSC BUILDING TO 2.

CALL 1 800.87

92/206/1

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RE

or type. Form designed for use on alite (12-p			11		Socramento, Cálifornia
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. Ma	1616		2. Page 1	Information in the shaded area is not required by Federal law.
l. Generator's Name and Mailing Address	CALIFORNIA DEPARTMENT OF TRANSPORTATION 1545 WILLOW STREET	<u>.</u>			92//2067/7
Generator's Phone (510) 186-1		erae	0.5	Projective De Projective Burkley	വായിര്വര് പ്
Transporter 1 Company Name	6. US EPA ID Number				
Transporter 2 Company Nome	1 14 - 10 AUSTO 105181	45/117		17 - 27	1367.19
Transporter 2 Company Name	8. US EPA ID Number	1.1.1			
2500 WEST LOKERN ROAD	SERVICES (LOKERN), INC.				
BUTTONWILLOW, CA 932	06 _  C A D 9 8 9 6 7	5  2  7  6		(0)	1 76/5/3/12
. US DOT Description (including Proper Sh	pping Name, Hazard Class, and ID Number)	12. Con	Type	13. Total Quantity	14. Unit WI/Vol an Waste Number
"RQ" HAZARDOUS W.	ASTE SOLID A3077, PGIII, 1 LB	ors =			611
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Interior Description (or Maler of Unit				ng cooling or Worl	OF THE STATE OF
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Special Mandling Instructions and Addition	<b>国</b> 国际政策和主义工作。	) ##±	<b>7</b>	<b>计算计算</b>	E Habita
PLEASE WEAR PROPER S					
IN CASE OF EMERGENCY	CONTACT ANDREW NORRIS (510	) 286-1	367	20	
Wo# 95085 2	3				
<ul> <li>GENERATOR'S CERTIFICATION: 1 here packed, marked, and labeled, and are in</li> </ul>	by declare that the contents of the consignment are fully all respects in proper condition for transport by highw	y and accurate my according to	ly describe applicable	d above by proper i	thipping name and are classifie international laws.
If I am a large quantity generator, I co	ertify that I have a program in place to reduce the vo	lume and toxi	city of was	ste generated to the	degree I have determined to
economically practicable and that I have threat to human health and the environ	selected the practicable method of treatment, storage ment; OR, if I am a small quantity generator, I have n	, or disposal c	currently av	railable to me which	minimizes the present and fur
waste management method that is available inted/Typed Name	ible to me and that I can afford.	inem.	1	4	Month Doy
- 6 Vel	( CEC September 12 April 12	10%	1 (	(	11/1/1/1/1
7. Transporter 1 Acknowledgement of Received/Typed Name	ipt of Materials		~	200	Month Day
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Transporter 2 Acknowledgement of Rece rinted/Typed Name	ipt of Materials				Mouth % The
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9. Discrepancy Indication Space	4424 10 44	(5)			13.4
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Facility Owner or Operator Certification	of receipt of hazardous materials covered by this main	lest except as a	nated in the	ım 19.	
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