12-16-92

TANK CLOSURE REPORT UNDERGROUND STORAGE TANK REMOVAL FORMER SCHOOL DISTRICT CORPORATION YARD CASTRO VALLEY STATION

DAMES & MOORE

Job No. 03715-051-043 December 16, 1992 BART WD-07



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> December 16, 1992 Job No. 03715-051-043

Bay Area Rapid Transit P.O. Box 12688 Oakland, California 94604-2688

Attention: Mr. Ray Cole

Department Manager System Safety Department

Dear Mr. Cole:

Tank Closure Report,
Underground Storage Tank Removal
Former School District Corporation Yard
Castro Valley Station

Dames & Moore is pleased to submit this Tank Closure Report detailing the results of the underground storage tank removal conducted at the former Castro Valley Unified School District Corporation Yard located at 21000 Wilbeam Avenue in Castro Valley.

Very truly yours,

DAMES & MOORE

Dana Brock, P.E., C.E.G. GES Program Manager

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CLOSURE REPORT UNDERGROUND STORAGE TANK REMOVAL FORMER SCHOOL DISTRICT CORPORATION YARD CASTRO VALLEY, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of the underground storage tank (UST) removal conducted at the former Castro Valley Unified School District (CVUSD) Corporation Yard (the site) located at 21000 Wilbeam Avenue in Castro Valley (Figure 1). The site will be used as part of the parking lot for the proposed Castro Valley Bay Area Rapid Transit District (BART) Station.

2.0 BACKGROUND

The site is owned by BART and was leased to the CVUSD for the past 30+ years. The former corporation yard occupies approximately 60,000 square feet and is accessed from Wilbeam Avenue. It was used as the school district's maintenance/service yard. A two-phase Preliminary Site Assessment (PSA) was conducted for the Dublin/Pleasanton BART extension during December 1990 (PHASE A) and April 1991 (PHASE 2A).

Results of the PSA indicated that the site was identified on the Resource Conservation and Recovery Act (RCRA) List as storing small quantities of hazardous materials. Two 2,000-gallon USTs, reported to contain gasoline and diesel fuel, and a fuel dispensing island were identified on-site. According to the CVUSD maintenance supervisor, the two USTs were installed around 1957 and are of single-walled steel construction. Fuel was dispensed through two product dispensers located in the center of a concrete slab overlying the USTs. During a site visit 13 inches of residual product were measured in the diesel tank and 19 inches in the regular tank.

3.0 OBJECTIVES AND SCOPE OF WORK

The objective of this work was to remove the USTs at the site in preparation for closure of the site. To achieve this objective, the following scope of services was performed:

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- Initial activities, including: review of documents provided by BART, preparation of a site-specific health and safety plan in accordance with 29 CFR 1910.120, acquisition of necessary permits, subcontractor procurement, and clearance of underground utilities;
- Removal of the USTs, including: excavation, removal and disposal of the USTs, as well as associated dispensers and piping, soil generated during excavation activities, and groundwater from dewatering of the excavations. Collection of confirmatory samples, and upon approval from the Alameda County Department of Environmental Health Hazardous Materials Division (ACDEHHMD) backfilling of the excavations; and
- Preparation of this Tank Closure Report.

4.0 <u>UNDERGROUND STORAGE</u> TANK REMOVAL

Prior to beginning field activities for removal of the USTs, all necessary permits were obtained and all applicable local agencies were notified of the work at the site, including: the ACDEHHMD, Bay Area Air Quality Management District (BAAQMD), and the Castro Valley Fire Department (CVFD). The exact tank locations and orientations, as well as other utility locations, including water and electricity, were marked by an underground utility locator prior to beginning field activities. Tank removal activities were conducted by Lee Engineering Enterprises, Inc. (Lee) of Sunnyvale, California.

A project-specific health and safety plan was developed by Lee in accordance with 29 CFR 1910.120. All site work associated with UST removal was governed by this plan.

Before beginning the tank removal, the fuel dispensing island and concrete slab overlying the tanks were demolished. The soil overlying the tanks was excavated to expose the tops of the tanks to aid in the removal of residual product and the rinsing of the tanks. Residual product remaining in the tanks and supply lines was removed, and the tanks and lines were triple rinsed with a high-pressure steam cleaner. Rinsate from the cleaning activities was removed and disposed of with the residual product. Disposal of the residual product and rinsate was conducted by Erickson Inc. of Richmond, California. Proper classification and manifesting

procedures were followed. Complete waste profiling data and copies of the manifests are included in Appendix A.

wo manifests for product / runsafe enclosed

During excavation of the soil overlying the tanks, an abandoned line was discovered near the former regular gasoline dispenser. At the request of Mr. Scott Seery of the ACDEHHMD, the line was excavated. The line truncated near a small patched area in a part of the concrete slab that had not been excavated to remove the other two tanks. When the patched area was excavated, another pipe was discovered. The new pipe was oriented vertically, and upon closer examination was determined to be the fill pipe for atthird and not documented as being present at the site. The overlying concrete and soil were excavated to confirm the presence of the tank. Upon approval from BART and modification of the closure permit by the ACDEHHMD, the tank was prepared for removal in the same fashion as the other two tanks.

3rd UST

Once the three tanks were emptied of residual material, dry ice was introduced into the tank to displace the oxygen in the tank, rendering them inert. When the oxygen content of the tank was sufficient to cause the atmosphere inside the tank to fall below the Lower Explosive Limit (LEL) as detected on a combustible gas indicator, approval was given by the ACDEHHMD inspector to remove the tanks from the excavations.

Upon removal from the excavation, the tanks were visually inspected for the presence of corrosion, pitting, and holes. Once the condition of the tanks was documented, they were loaded onto a truck and removed from the site. The tanks were taken to a hazardous waste disposal facility under proper manifest.

All of The above were observed.

After the tanks were removed from the excavations and their physical conditions noted, confirmatory soil samples were collected from the sidewalls of the excavations in areas approved by the ACDEHHMD inspector. Confirmatory samples were collected using the bucket of the excavator from just above the standing water line in the excavations. In addition, confirmatory samples were also collected from beneath the two fuel dispensers and along the vent line for the regular tank. Soil samples were collected by manually driving clean, 3-inch-diameter stainless-steel sample rings into the freshly excavated soil at the teeth-end of the excavator bucket. Samples were immediately covered with teflon seals and plastic end caps, labeled with owner, location, date, time, collector's initials and analyses required. Samples were stored in individual

plastic bags in a cooler of ice for transport to the laboratory. Proper chain-of-custody documentation accompanied all samples to the laboratory.

Samples were not collected from the floor of the excavation, as originally proposed, because groundwater was encountered toward the base of the excavation. The groundwater in the excavation was not required to be sampled, as would normally be required, because groundwater samples had already been collected from borings drilled around the tanks as part of a preliminary investigation conducted prior to removal of the USTs. A copy of the letter sent to BART detailing these results is included as Appendix B of this report. Confirmatory soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gas, TPH as diesel, benzene, toluene, ethylbenzene and xylenes (BTEX), and total lead by EPA Methods 8015M as gas, 8015M as diesel, 8020, and 6010 respectively. Analytical results are summarized in Table 1, and laboratory reports are presented in Appendix C. Locations of confirmatory soil samples and depths are shown on Figure 3.

Due to the elevated concentrations of TPH as gasoline, TPH as diesel and BTEX in the soil beneath the third tank, additional excavation work was conducted in an effort to remove the fuel-hydrocarbon-contaminated soil. Approximately 100 cubic yards of additional soil was removed from the third tank excavation and from beneath the product dispensers. Material from these areas was removed until no more visible evidence of contamination (based on color and odor) was apparent. Additional excavation from the unknown tank also removed the soil from beneath the regular fuel dispenser to the depth of the unknown tank excavation. Once over-excavation was complete, additional confirmatory samples were collected and analyzed.

After the confirmatory sample results were reviewed by the ACDEHHMD, the excavations were approved for backfilling. Prior to backfilling, all standing water was pumped out of the excavations into a holding tank. The excavations were backfilled and compacted during the week of July 20, 1992.

7=-

To characterize the stockpiled soil from the excavations for waste disposal purposes, one four-point composite sample was collected for approximately each 50 cubic yards of excavated material and submitted for chemical analyses. The soil was sampled by manually driving clean stainless-steel sampling rings into the stockpiled soil approximately 18 inches below the surface. Samples were sealed, labeled and transported to the laboratory under proper chain-of-custody

procedures. The stockpiled soil was analyzed for TPH as gas, BTEX, TPH as diesel, Toxicity Characteristic Leaching Procedure (TCLP) BTEX, and reactivity, conductivity, and ignitability (RCI) as required by the Browning-Ferris Industries (BFI) Class III landfill in Livermore, California.

The water in the holding tank from dewatering of the excavations was sampled and analyzed for disposal purposes. Samples were collected by lowering a polyethylene bailer into the water in the tank. The water was transferred directly into laboratory-provided glassware using a bottom discharge device on the bailer to minimize the potential for volatilization. The samples were labeled and stored on ice. Samples were analyzed for TPH as gas, TPH as diesel, cyanide, phenols, metals and pH as required by the Ora Loma Sanitary District. Complete analytical laboratory reports and chain-of-custody records are included in Appendix C. Results are summarized in Tables 2 and 3.

All soil and groundwater samples collected for disposal characterization were analyzed by CKY Analytical Laboratory of Pleasanton, California.

5.0 RESULTS

5.1 EXCAVATIONS

An irregularly shaped area approximately 60 feet by 50 feet in dimension was excavated in three locations to approximately 6.5 feet to 9.5 feet bgs in order to remove the three USTs and associated piping. Figure 3 shows the dimensions of the excavations.

5.2 **STRATIGRAPHY**

Based on examination of the walls of the excavations, the upper 1 to 2.5 feet of soil at the site consists of brownish-yellow sand fill with occasional silt and gravel. The interval from approximately 2.5 to 8.0 feet consists of a dark grey to olive grey clay grading with sands and gravels. The interval from 8.0 to 9.5 feet consists of a brown to yellowish-brown silty sand/sandy clay.

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Groundwater was encountered in the bottoms of the excavations, at approximately 10 feet bgs, and rose to approximately 5.5 to 6.0 feet bgs when allowed to equilibrate in the open excavations.

5.3 TANK REMOVAL

Three USTs were removed from the excavations. One tank, previously used for diesels fuel, measured 12.0 feet long by 6.0 feet in diameter. Upon removal, the tank was inspected and found to be slightly corroded and pitted in some areas; no holes were observed. Asconding tank used for regular gasoline storage, measured 8.75 feet long by 6.0 feet in diameter. Upon removal, this tank was found to have a large hole (greater than one-half inch) in the end of the tank near the top of the rim. No other holes were observed in this tank. There was no visible evidence of soil staining in the excavation; however, there was a dark product-like material noted floating on the groundwater in the excavation. The product-like material may have been from the tar paper the tank was wrapped in when it was placed in the ground. Groundwater from the excavation was pumped out prior to backfilling. The third unknown tank for which no historical data exist, measured 12.0 feet long by 4.0 feet in diameter. During excavation, very strong hydrocarbon odors and stained soil were noted. Upon removal, this tank was found to have numerous holes in the bottom, top and ends.

Residual product, sludge and tank rinsate generated during cleaning of the tanks were disposed by Erickson, Inc. at the Refinery Services Company facility in Patterson, California. The USTs and associated piping were disposed of by Erickson, Inc. as well.

5.4 CONFIRMATORY SOIL SAMPLE RESULTS

A total of 14 confirmatory soil samples was collected from the three excavations, the vent line for the regular tank, and beneath the two product dispensers. All samples were analyzed for TPH as gas, TPH as diesel, BTEX, and total lead. Table 1 summarizes the results of the confirmatory sampling. Figure 3 shows a plan view of the excavations and sample locations.

Two confirmatory samples were collected from both the diesel and regular tank excavations. As shown on Table 1, the confirmatory samples from the regular tank, RTCS-1 and RTCS-2, were non-detect for TPH as gas and TPH as diesel. Toluene, ethylbenzene and

xylenes were detected in RTCS-2 at concentrations of 0.01, 0.01 and 0.03 mg/kg, respectively. No benzene was detected in these samples. The confirmatory samples from the diesel tank excavations, DTCS-1 and DTCS-2 were non-detect for TPH as gas and TPH as diesel. Benzene and xylenes were detected in DTCS-2 at concentrations of 0.01 and 0.017 mg/kg, respectively. Total lead was detected in all four samples from the regular and diesel tank excavation at concentrations ranging from 27 mg/kg in RTCS-1 and DTCS-1 to 31 mg/kg in RTCS-2.

Two confirmatory samples were collected from the sidewalls of the third (unknown) tank excavation. As shown in Table 1, TPH as gas, TPH as diesel, and BTEX were detected in both samples, UTCS-1 and UTCS-2. TPH as gas was detected at 1,100 mg/kg in UTCS-1 and 810 mg/kg in UTCS-2, TPH as diesel at 140 and 80 mg/kg, benzene at 7.3 and 4.8 mg/kg, toluene at 2.8 and 1.4 mg/kg, ethylbenzene at 44 and 37 mg/kg and xylenes at 20 and 16 mg/kg, respectively. Total lead was detected at 40 mg/kg in UTCS-1 and 45 mg/kg in UTCS-2. The detections of diesel in sample UTCS-1 and UTCS-2 are likely due to interference from heavy fraction gasoline constituents.

Two confirmatory samples, DDCS-1 and RDCS-1, were collected from beneath each of the fuel dispenser locations. As shown on Table 1, TPH as gas and BTEX were detected in both samples. TPH as gasoline was detected at 7.5 mg/kg in DDCS-1 and 5.5 mg/kg in RDCS-1, benzene at 0.7 and 0.44 mg/kg, toluene at 0.31 and 1.0 mg/kg, ethylbenzene at 0.31 and 0.20 mg/kg and xylenes at 0.96 and 1.2 mg/kg, respectively. Total lead was detected at 52 mg/kg in DDCS-1 and 60 mg/kg in RDCS-1.

After the additional excavation was completed, four additional confirmatory samples, UTCS-3 through UTCS-6, were collected from each wall of the unknown excavation. As shown in Table 1, no TPH as gas, TPH as diesel or BTEX were detected in any of the samples. Total lead concentrations ranged from 26 mg/kg in UTCS-5 to 46 mg/kg in UTCS-6.

< /0 x STLC

The second confirmatory sample from beneath the diesel fuel dispenser, DDCS-2, showed non-detect for TPH as gas, TPH as diesel, and BTEX. Total lead was detected at a concentration of 45 mg/kg. The area beneath the regular tank dispenser was excavated to the depth of the unknown tank excavation and no additional confirmatory sample was collected.

One confirmatory sample was collected from beneath the regular tank vent line, RTVCS-1 (Figure 3). As shown on Table 1, TPH as gas, TPH as diesel, and BTEX were not detected. The total lead concentration was 26 mg/kg.

Copies of the analytical reports for the confirmatory sampling are presented in Appendix C.

5.5 BACKFILLING EXCAVATIONS

Analytical results of confirmatory soil samples were reviewed by the ACDEHHMD. On September 1, 1992 approval to backfill the excavations was obtained from the ACDEHHMD.

All standing water, approximately 15,000 gallons, was pumped from the excavations into a holding tank prior to backfilling. The pits were backfilled with crushed rock to just above where standing water was measured prior to removal. After the crushed rock was placed, the remainder of the excavation was filled with clean imported fill material and compacted to the surface.

5.6 SOIL AND GROUNDWATER DISPOSAL

Approximately 250 cubic yards of soil and 15,000 gallons of groundwater were generated during removal of the USTs. After appropriate waste characterization analyses were conducted, the soil was disposed of at the BFI landfill in Livermore and the groundwater was discharged to the Ora Loma Sanitary District's sewer system. Analytical results of waste characterization are summarized on Tables 2 and 3, and laboratory reports are presented in Appendix D. Also included in Appendix D is the application to the Ora Loma Sanitary District for the disposal of the water, and copies of the nonhazardous special waste manifests required for the soil disposal at BFI Landfill.

5.6.1 Stockpiled Soil

To characterize the stockpiled soil for disposal purposes, a total of 5 four-point composite samples were collected and analyzed. Composite samples were collected and analyzed for waste characterization purposes as described in Section 4.0. Analytical results indicated that TPH as

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gas and BTEX were not present in the samples above the laboratory reporting limit. TPH as diesel was detected in concentrations ranging from 7.2 mg/kg to 150 mg/kg. Testing for BTEX by TCLP revealed no BTEX above laboratory reporting limits. After reviewing the analytical results, the landfill accepted the excavated soils for disposal. The stockpiled soil was removed from the site on September 11, 1992 and disposed of at the BFI landfill on Vasco Road in Livermore, California. Nonhazardous special waste manifests were signed by a BART representative and accompanied the soil to the landfill.

5.6.2 Groundwater

Approximately 15,000 gallons of groundwater were pumped from the excavation into a holding tank. On August 4, 1992 the water was sampled for waste characterization purposes as described in Section 4.0. Analytical results indicated that petroleum hydrocarbons and BTEX were not present above the laboratory reporting limits. After reviewing the analytical results, the Ora Loma Sanitary District approved the discharge of the water into their system. The groundwater was pumped from the tank by Pesco Company on September 16, 1992 and discharged to an on-site cleanout confirmed by the sanitary district to connect with the sewer system.

Complete laboratory reports for soil and groundwater waste characterization analyses and chain-of-custody documents are presented in Appendix C. Also included is the "Special Discharge Permit Application" submitted to the Ora Loma Sanitary District and the letter from them authorizing the discharge of the water into their system.

6.0 <u>DISCUSSION OF RESULTS</u>

Soil analytical results from the two soil borings drilled adjacent to the regular gasoline UST as part of the preliminary environmental investigation indicated that the highest concentrations of TPH as gas and BTEX were detected in the shallow soils (see Appendix B for a table of results). Concentrations attenuated sharply between 2.5 and 5.0 feet, indicating these concentrations are likely the result of surface release, possibly from overfilling of the tank or a vehicle, or leakage from supply lines.

Grab groundwater samples collected from the three borings drilled around the USTs indicated the presence of TPH as gas and BTEX. Benzene was detected at concentrations up to 0.44 mg/L, above the Maximum Contaminant Level (MCL) for benzene of 0.001 mg/L. Although the soil analytical results did not indicate a subsurface release, the results of the grab groundwater sampling did indicate that there had been a subsurface release from the tanks.

The condition of the diesel tank when removed was determined to be good. Although slightly corroded and pitted in some areas, no holes were observed in the tank. Some hydrocarbon odors were detected in overlying soil during excavation of the tank, but no visible staining was observed. During excavation of soil overlying the regular tank, strong hydrocarbon odors were detected. After removal from the excavation, the regular UST was observed to have a large (greater than one-half inch) hole in the end of the tank near the top of the rim. There was no visible evidence of soil staining in the excavation; however, there was a dark product-like material, noted floating on the groundwater in the excavation. This may have been from the protective tar paper material wrapped around the tank.

During excavation of the third (previously unknown) tank, very strong hydrocarbon odors were noted. When removed from the excavation, the tank was noted to have several holes in the ends, top and bottom. Heavy staining of the soil underlying the tank was noted in the excavation, though no floating product was detected on the groundwater in the excavation. Based on visual observations made during the tank removals, it appears that the third tank, abandoned in-place, was responsible for the majority of hydrocarbon contamination in the subsurface near the tanks.

Total lead concentrations from the two samples collected from beneath the fuel dispensers were below the Total Threshold Limit Concentration (TTLC), but were above 10 times the Soluble Threshold Limit Concentration (STLC), a criterion often used to evaluate the potential for a sample to be above the STLC (a hazardous waste threshold criteria) if a waste extraction test (WET) is conducted.

Based on the results of the confirmatory sampling from the third tank excavation and beneath the fuel dispensers, it was determined that additional excavation was needed in these areas to reduce concentrations of fuel hydrocarbons and total lead in soil to acceptable levels in order to obtain approval from the ACDEHHMD to backfill the excavations. In addition,

overexcavation of contaminated soil aided in removing potential source material to groundwater. Approximately 100 cubic yards of additional soil was removed from the third tank excavation and beneath the product dispensers. Material from these areas was removed until no visible evidence of contamination was apparent (based on color and odor). Four additional confirmatory samples from the walls of the third tank excavation and one from beneath the diesel dispenser were analyzed, and no detectable levels of TPH as gas, TPH as diesel, or BTEX were reported. In addition, the total lead levels were below 10 times the STLC. Approval to backfill the excavations was obtained from the ACDEHHMD.

Because it was apparent the tanks had leaked, an Unauthorized Release Report was filed with the ACDEHHMD. A copy of this report is included as Appendix E.

If you have any questions regarding the information in this report, please contact us.

Very truly yours,

DAMES & MOORE

Dana Brock, P.E., C.E.G.

Senior Geologist

Erik Skov

Project Geologist

| TABLE 1 SUMMARY OF CONFIRMATORY SOIL SAMPLE ANALYTICAL RÉSULTS | | | | | | | | |
|----------------------------------------------------------------|------------------------------|---------------------------|---------------|-------|-------|-------|-------|-----------------|
| | | | Analytes | | | | | |
| Sample Date | Sample No. ⁽²⁾ | TPH Gas ⁽³⁾ | TPH Diesel | В | т | E | x | Total Lead |
| 6/25/92 | RTCS-1 | ND | ND | ND | ND | ND | ND | 27 |
| | RTCS-2 | ND | ND | ND | 0.010 | 0.010 | 0.030 | 31 |
| | DTCS-1 | ND | ND | ND | ND | ND | ND | 27 |
| | DTCS-2 | ND | ND | 0.010 | ND | ND | 0.017 | 30 |
| 6/26/92 | UTCS-1 | 1,100 | 403140 | 7.3 | 2.8 | 44.0 | 20.0 | ~0 :0 4(|
| | UTCS-2 | 810 | 80 | 4.8 | 1.4 | 37.0 | 16.0 | 45 |
| | DDCS-1 | 7.5 | ND | 0.70 | 0.31 | 0.31 | 0.96 | 52 |
| | RDCS-1 | 5.5 | ND | 0.44 | 1.0 | 0.20 | 1.2 | 60 |
| | RTVCS- | ND | ND | ND | ND | ND | ND | 26 |
| 6/30/92 | UTCS-3 | ND | ND | ND | ND | ND | ND | 31 |
| (After additional | UTCS-4 | ND | ND | ND | ND | ND | ND | 39 |
| excavation) | UTCS-5 | ND | ND | ND | ND | ND | ND | 26 |
| | UTCS-6 | ND | ND | ND | ND | ND | ND | 46 |
| | DDCS-2 | ND | ND | ND | ND | ND | ND | 45 |

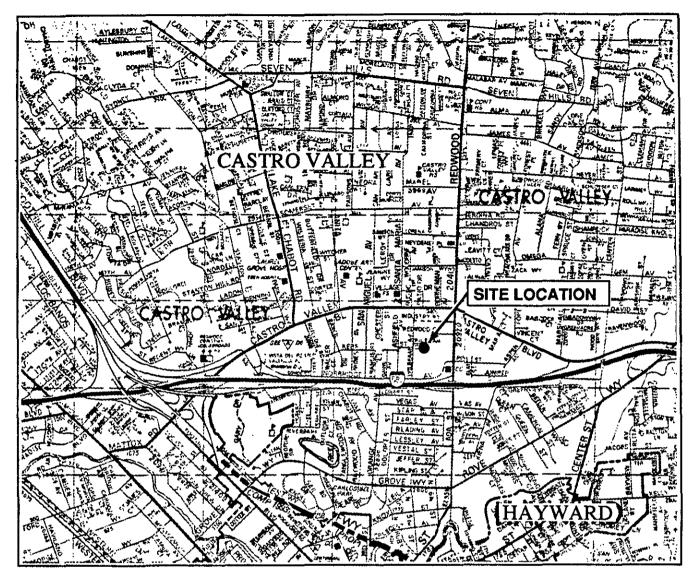
- 1) All results reported in mg/kg. All samples were analyzed by CKY Environmental Services of Pleasanton, California.
- 2) Sample locations are shown on Plate 3.
- 3) ND = not detected above laboratory reporting limits.

| TABLE 2 SUMMARY OF WASTE CHARACTERIZATION ANALYTICAL RESULTS(1) (WASTE SOIL) | | | | | | | |
|------------------------------------------------------------------------------|--------|-------------------|--------------|--------------|--------------|--------------|--|
| ANALYSES | DATE | | | | | | |
| WASTE SOIL | 8/4/92 | C1 | C2 | С3 | C4 | C5 | |
| BTEX Benzene | : | ND ⁽²⁾ | ND | ND | ND | ND | |
| Toluene | | ND | ND | ND | ND | ND | |
| Ethylbenzene | | ND | ND | ND | ND | ND | |
| Xylenes | | ND | ND | ND | ND | ND | |
| TPH Gasoline | | ND | ND | ND | ND | ND | |
| TPH Diesel | | 16 | 7.2 | 45 | 150 | 28 | |
| TCLP BTEX Benzene | | ND | ND | ND | ND | ND | |
| Toluene | | ND | ND | ND | ND | ND | |
| Ethylbenzene | | ND | ND | ND | ND | ND | |
| Xylenes | | ND | ND | ND | ND | ND | |
| STLC Lead | | 0.13 mg/L | 0.11 mg/L | 0.20 mg/L | 0.30 mg/L | 0.13 mg/L | |
| Reactive Sulfide | | ND | ND | ND | ND | ND | |
| Reactive Cyanide | | ND | ND | ND | ND | ND | |
| Electric Conductivity | | 260 μhoms/cm | 300 μhoms/cm | 240 μhoms/cm | 270 μhoms/cm | 150 μhoms/cm | |
| Ignitability | | 65°C | 61°C | 72°C | 62°C | 62°C | |

- 1) All results reported in mg/kg (ppm) unless otherwise stated. All samples were analyzed by CKY Environmental Services of Pleasanton, California.
- 2) ND = not detected above laboratory reporting limits.

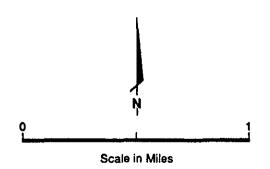
| TABLE 3 SUMMARY OF WASTE CHARACTERIZATION ANALYTICAL RESULTS ⁽¹⁾ (WASTEWATER) | | | | | |
|------------------------------------------------------------------------------------------|---------|-------------------|--|--|--|
| ANALYSES DATE SAMPLE NO. AND RESULT | | | | | |
| WASTEWATER | 8/4/92 | WW1 | | | |
| BTEX Benzene | | ND ⁽²⁾ | | | |
| Toluene | | ND | | | |
| Ethylbenzene | | ND | | | |
| Xylenes | | ND | | | |
| TPH Gasoline | | ND | | | |
| TPH Diesel | | ND | | | |
| | 8/18/92 | WT1 | | | |
| Cyanide | | ND | | | |
| Phenols | | ND | | | |
| TTLC Metals Arsenic | | ND | | | |
| Cadmium | | ND | | | |
| Total Chromium | | ND | | | |
| Copper | | 0.01 | | | |
| Lead | | ND | | | |
| Mercury | | ND | | | |
| Nickel | | 0.06 | | | |
| Silver | | ND | | | |
| Zinc | | 0.06 | | | |
| pH | | 8.7 | | | |

- 1) All results reported in mg/L unless otherwise stated. All samples were analyzed by CKY Environmental Services of Pleasanton, California.
- 2) ND = not detected above laboratory reporting limits.



NOTE:

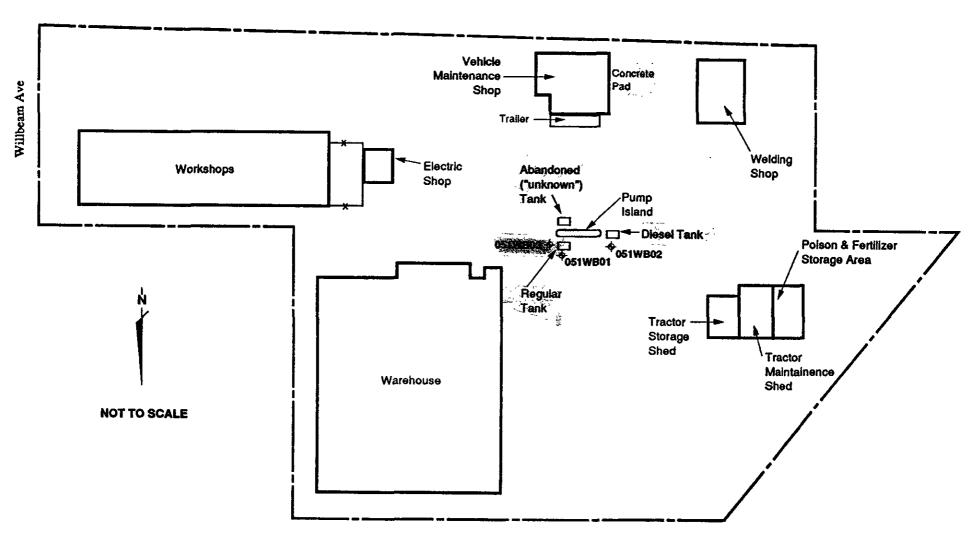
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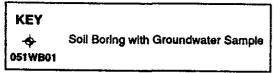


LOCATION MAP

BART ct Corporation Yard

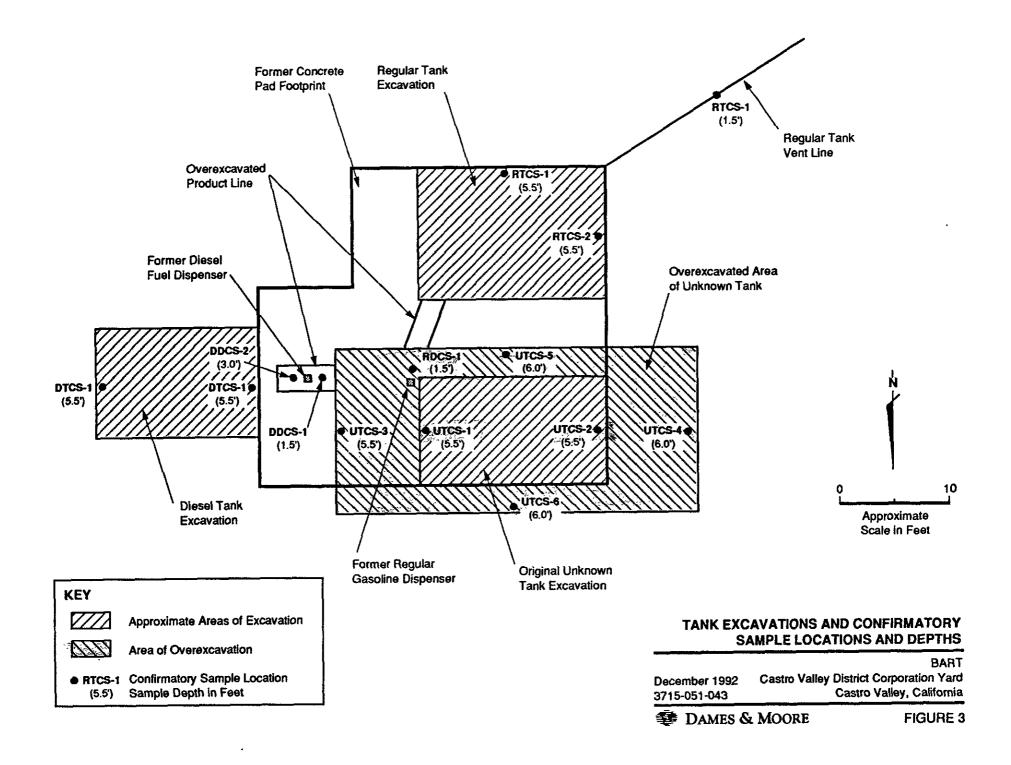
December 1992 Castro Valley District Corporation Yard 3715-051-043 Castro Valley, California





SITE MAP SHOWING BORING LOCATIONS AND TANK LOCATIONS

December 1992 Castro Valley District Coporation Yard 3715-051-043 Castro Valley, California



APPENDIX A TANK REMOVAL AND DISPOSAL DOCUMENTATION

DO NOT WRITE BELOW THIS LINE.

DHS 8022A (12/90) EPA 8700-22 Dov

| Pleas | • P | And or type. Form assigned for use on early (12-prot. typewiser). | | | | 010 | 1 | Sacramer | mo, Collo | |
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| | Ì | UNIFORM HAZARDOUS WASTE MANIFEST 1. Generalors US CIA:CIO:C | 3063673410 | Yest Documen | 0,0 | 2 Page 1 | is not req | on in the shade uled by Federa | | |
| | | RAY DOFA KAND TOWNS | Monifest Documen | Number | 1489 | 019 | | | | |
| П | | P.O. TOX 17688, OAKLAND, | CA 44604 | | Î. | YHQ131 | 10,0 | 4.3.64 | 77 | |
| 1 | | & Transporter I Company Name TRIDENT TRUCK LINE, INC. | 6. US EPA ID Number C ₁ A ₁ D ₁ 9 ₁ 8 ₁ 2 ₁ 4 ₁ 8 ₁ | 4. 3. 7.0 | | ransporters D | 2.04 | <u> </u> | 9 | |
| | | 7. Transporter 2 Company Name | 8. US EPAID Number | 4131710 | | canapoder's IC | (210 | 783-2 | 881 | |
| 8 | | Designated Facility Name and Site Address | 1 | 1 1 1 | .G. State i | xter's Phone acitty's ID | | 1 | (| |
| 52-75 | | ERICKSON INCORPORATED | | | H. Focility | AID:010; | 914161 | 613 1912 | | |
| CALL 1-800-852-7550 | | 255 PARR BLVD. RICHMOND, CA 94801 | C ₁ A ₁ D ₁ O ₁ O ₁ 9 ₁ 4 ₁ 6 ₁ | 6: 3: 9:2 12 Conta | | 13. Total | 10) 2 | 35-1393 | <u>ddingt</u> Handi | |
| | | 11. US DOT Description (including Proper Shipping Name, Hazard Clas | | No. | Туре | Quantity | WI/Vol | L Waste Nu State | mber | |
| 3 | | EMPTY STORAGE TANK NON-RCRA WASTE SOLID | . HAZARDOUS | | | _ | | BA/Oner | | |
| Ž | 1 | b | | 0.0.1 | T: P | 01/000 | P | Stote | NONE | |
| ğ | ? | | | | | | | ₽A/Other | | |
| § 7 | 1 | C. | | | | 1-1-1-1 | | State | | |
| WITHIN CALIFORNIA, | | | | | | | | EPA/Other | | |
| | | d. | | | - 1 | 111 | - | Sicile | <u>2.0000</u> c.2.30 | |
| \$ | | | | | | | | EPA/Other | <u> </u> | |
| ğ | | J. Additional Descriptions for Materials Listed Above | | | K. Handing | Codes for Waste | Listed Abo | | <u>##45/992</u> ******* | |
| <u> </u> | | QUANTITYEMPTY STORAGE | TANK(5) 9028 | | | Ø1 | D | | | |
| | | HAVE BEEN INERTED WITH 15 LBS. D | RY TCE PER 1 000 | GAT CA | C. PACTY | | | | | |
| S N | | 15. Special Handling Instructions and Additional Information | | | | | | | | |
| ğΠ | | KEEP AWAY FROM SOURCES OF IGNITION UNDERGROUND STORAGE TANKS. 24 HR. | ON. ALWAYS WEAR H. . CONTACT NAME: (| ARDHATS | AND | FLASSES WI | HEN WO | RKING A | ROUND | |
| CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: | | AND PHONE: (510) 464-7060 | | | | | | | | |
| ĕ | | GENERATOR'S CERTIFICATION: I hereby declare that the content packed, marked, and labeled, and are in all respects in proper or | ondition for transport by highway a | ecording to or | oplicable in | ternational and in | ational gov | autuelij tedric | officers. | |
| ξ | | If I am a large quantity generator, I certify that I have a progra economically practicable and that I have selected the practical | ole method of treatment, storage, | or disposal cu | mently avail | lable to me which | minimizes t | the present and | d future | |
| 料 | İ | threat to human health and the environment; OR, If I am a small a management method that is available to me and that I can affor | | good faith eff | oct to colonic | ize my woste gen | eration and | i select the bes | i wade | |
| 륈 | ĺ | Printed/Typed Name | Sanduy | c 11 | | | Month | Day | Year | |
| | | GARY C. JENKEN FOR BART | 7//Nam | | 120 | | - 0,0 | 512161 | 9 2 | |
| N T | | 17. fransporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name | Signature | | | | Month | | Year | |
| בַּן אָ | | Man: 1- 1 | mike Ve | -/ | | | 1 | | | |
| SEN O | í | 18. Transporter 2 Acknowledgement of Receipt of Materials | Mare ve | mazz | | | 190 | 612,61 | 9 5 | |
| | | Pfinled/Typed Name | Signature | | · · · · · · · | | Month | Day | Year | |
| IN CASE OF EMERGENCY OR SPALL | | | | | | | | 1 , 1 | , | |
| 3 5 | | 19. Discrepancy Indication Space | | | | | | | | |
| - I - | | | | | | | | | | |
| | | 80. Facility Owner or Operator Certification of Secript of hazardous ma | ferials covered by this manifest ex- | ept or noted | n Henri 10 | | | | | |
| Ť | Ī | Panled/Typed Name | Signature | 70 1/ | | ナー | Month | Day | Year | |
| ' | Î | Dahold HARRON | 1 March | ⟨) ⟨ ¼ | -1 | 2. | nl | 26 | 9.7 | |
| | | DO DO | NOT WRITE BELOW THIS | LINE. | | | COUR | DIVI | 4.15 | |

DAY OR NIGHT *TELEPHONE (510)*235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 1062

CUSTOMER
LEE ENG
JOB NO.
78933

| FOR: | Erickson, Inc. | 7016 TANK NO. | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Vigual Gagton | ds /1 21 / GMDN | DATE: 07/02/92 TIME | | | | |
| This is to certify that I have per Petroleum Institute and have for This certificate is based on co completed and is issued subject to | und the condition onditions existing | to be in accordance with at the time the inspect | n its assigned designation. tion herein set forth was | | | |
| 2000 Gallon T | | CONDITIONSZ | AFE FOR FIRE | | | |
| OXYGEN 20.9% REMARKS: LOWER EXPLOSIVE | LIMIT LESS THA | N 0.1% | | | | |
| | "ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY." | | | | | |
| In the event of any physical or atmosph immediately stop all hot work and control changes occur. STANDARD SAFETY DES SAFE FOR MEN: Means that in the com 19.5 percent by volume; and that (b) To judgment of the Inspector, the residues while maintained as directed on the Inspector of the atmosphere is below 10 percent of the not capable of producing a higher concand while maintained as directed on the sufficiently to prevent the spread of fire necessary by the Inspector. | SIGNATION partment or space so divide materials in the atriant are not capable of proctor's certificate. compartment so designate to the compartment of the compartm | This permit is valid for 24 hour lesignated (a) The oxygen continosphere are within permissable oducing toxic materials under gnated (a) The concentration and that (b) In the judgment of under existing atmospheric country, and further, (c) All adjacent series | ent of the atmosphere is at least the concentrations; and (c) in the existing atmospheric conditions of flammable materials in the finite the inspector, the residues are conditions in the presence of fire spaces have either been cleaned. | | | |
| The undersigned representative acknowle which it was issued. | edges receipt of this ce | rtificate and understands the control of the contro | X | | | |

DAY OR NIGHT ***TELEPHONE** (510) 235-1393

.

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO 1075

| | 1010 | | | | |
|----------|-------|--|--|--|--|
| CUSTOMER | | | | | |
| TEE FYG | | | | | |
| JOB NO. | | | | | |
| | 78933 | | | | |

CP59

| FOR: Erickson, Inc. TANK NO. 9017 | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| LOCATION: Richmond DATE: 06/30/92 TIME: 09:11:30 | | | | | |
| TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT LG | | | | | |
| | | | | | |
| This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions. | | | | | |
| TANK SIZE 2000 Gallon Tank CONDITION SAFE FOR FIRE | | | | | |
| REMARKS: OXYGEN 20.9% | | | | | |
| LOWER EXPLOSIVE LIMIT LESS THAN 0.1% | | | | | |
| | | | | | |
| "FRICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN | | | | | |
| CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS | | | | | |
| WASTE FACILITY." | | | | | |
| | | | | | |
| In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur. | | | | | |
| STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate. | | | | | |
| SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector. | | | | | |
| The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued. | | | | | |
| REPRESENTATIVE TITLE INSPECTOR | | | | | |

DAY OR NIGHT >TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO.1077

| CUSTOMER | |
|----------|----------------------------------------------|
| LEE ENG | <u>; </u> |
| JOB NO. | |
| | 78933 |

| | 9028 TANK NO | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| | DATE: TIME: | | | | | | | |
| TEST METHOD Visual Gastech/1314 SMPN | LAST PRODUCT | | | | | | | |
| Petroleum Institute and have found the condition | ed that this tank is in accordance with the American to be in accordance with its assigned designation. at the time the inspection herein set forth was all qualifications and instructions. | | | | | | | |
| TANK SIZE 1000 Gallon Tank | CONDITIONSAFE FOR FIRE | | | | | | | |
| OXYGEN 20.9% REMARKS: LOWER EXPLOSIVE LIMIT LESS THAN 0.1% | | | | | | | | |
| "ERICKSON INC. HEREBY CERTIFIES THAT | THE ABOVE NUMBERED TANK HAS BEEN | | | | | | | |
| CUT OPEN, PROCESSED, AND THEREFORE D | ESTROYED AT OUR PERMITTED HAZARDOUS | | | | | | | |
| WASTE FACILITY." | | | | | | | | |
| STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so 19.5 percent by volume; and that (b) Toxic materials in the at judgment of the inspector, the residues are not capable of p while maintained as directed on the inspector's certificate. | g the gas-free conditions of the above tanks, or if in any doubt, This permit is valid for 24 hours if no physical or atmospheric designated (a) The oxygen content of the atmosphere is at least tmosphere are within permissable concentrations; and (c) in the producing toxic materials under existing atmospheric conditions ignated (a) The concentration of flammable materials in the | | | | | | | |
| atmosphere is below 10 percent of the lower explosive limit; not capable of producing a higher concentration that permitte and while maintained as directed on the inspector's certificat | and that (b) In the judgment of the Inspector, the residues are ed under existing atmospheric conditions in the presence of fire e, and further, (c) All adjacent spaces have either been cleaned erted, or in the case of fuel tanks, have been treated as deemed | | | | | | | |
| The undersigned representative acknowledges receipt of this of which it was issued. | certificate and understands the conditions and limitations under | | | | | | | |
| REPRESENTATIVE | INSPECTOR | | | | | | | |

From: Erickson, Inc. at #235-1393 To: BICK at #9,1408-734-9020

09-10-92 02:41 pm 001 of 001

September 10, 1992

IRVINE LIVIANU
LEE ENGINEERING
1153 BORDEAUX DRIVE
SUITE 103
SUNNYVALE, CA 94089

Dear IRVINE:

THIS LETTER IS TO VERIFY THAT, THE PIPING ASSOCIATED WITH THE TANKS THAT WERE REMOVED FROM THE BAY AREA RAPID TRANSIT SITE LOCATED AT 21000 WILBEAM, CASTRO VALLEY, CA, WAS BROUGHT IN TO OUR FACILITY FOR PROCESSING AND DISPOSAL. AFTER THE PIPING WAS CLEANED IT WAS TAKEN TO LMC METAL RECYCLERS. IF YOU HAVE ANY QUESTIONS, PLEASE FEEL FREE TO CALL.

Sincerely,

KAREN RUFFIN ERICKSON, INC. TSDF OPERATIONS ASSISTANT

APPENDIX B

PRELIMINARY FINDINGS AND RECOMMENDATIONS WD-07 FORMER SCHOOL DISTRICT CORPORATION YARD

221 MAIN STREET, SUITE 600, SAN FRANCISCO, CALIFORNIA 94105-1917 (415) 896-5858 FAX: (415) 882-9261

> June 12, 1992 Job No. 03715-051-043

Bay Area Rapid Transit District P.O. Box 12688 Oakland, California 94604-2688

Attention: Mr. Zoyd Luce

Department Manager System Safety Department

Dear Mr. Luce:

Preliminary Findings and Recommendations
WD-07 Former School District Corporation Yard
Castro Valley Station
Dublin-Pleasanton Extension
For Bay Area Rapid Transit District

INTRODUCTION

Dames & Moore has completed the field work for Task 2 of WD-07. This Task included drilling and sampling six soil borings, three in the area near the underground storage tanks (USTs) and three near the vehicle oil change garage area, and surface and shallow (3.0 feet) subsurface sampling near one shed reported to contain poisons and 3 locations in the unpaved area where buses were reportedly washed. A total of 27 soil samples and 4 grab groundwater samples were submitted to the laboratory for chemical analysis.

Soil and grab groundwater samples collected from the three borings near the USTs were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline and diesel, benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Methods 8015 Modified as gasoline and diesel and 8020/602. In addition, both soil and grab groundwater samples from the three borings near the USTs were analyzed for organic lead. Soil samples collected from the borings near the vehicle oil change area and the surface and shallow subsurface samples from the bus washing area were analyzed for Volatile Organic Compounds (VOCs) and total recoverable petroleum hydrocarbons (TRPH) by EPA Methods 8240 and 418.1. The surface

GES1.020

DAMES & MOORE

Bay Area Rapid Transit District June 12, 1992 Page 2

and shallow subsurface samples from near the poison storage shed were analyzed for organochlorinated and organophosphorus pesticides.

RESULTS

Analytical results from the six soil borings have been received. Table 1 summarizes the results to date of the soil sampling and Table 2 summarizes the results of the grab groundwater sampling. No results have been received from the surface and shallow **
subsurface soil samples. As shown in Table 1, TPH as gasoline and BTEX were detected in borings 051WB01 and 051WB03 drilled adjacent to the regular gasoline UST (see attached figure). The highest concentrations in both borings were from samples collected at 2.5 feet below ground surface (bgs). These concentrations are likely a result of a surface release, possibly overfilling of the tank or a vehicle. TRPH were detected in borings 051SB02 and 051SB03, drilled next to the vehicle oil change area (see attached figure), up to 10.0 ft bgs.

As shown in Table 2, TPH as gasoline was detected in all three grab groundwater samples collected from the borings near the USTs. BTEX was detected in two borings, 051WB01 and 051WB03. TPH as diesel was detected in borings 051WBC1 and 051WB03, however, these results are possibly due to interference from heavy fraction gasoline constituents. The grab groundwater sample collected from boring 051SB02 was analyzed for TRPH because of the concentrations detected in the soil. There were no detectable levels of TRPH found in the grab groundwater sample from 051WB02.

RECOMMENDATIONS

Based on our review of the analytical data received to date, Dames & Moore recommends the following actions:

• Conduct an agency review to determine if there are any groundwater investigation sites in the area in which the groundwater flow direction, stratigraphy, and possibly gradient, can be established.

DAMES & MOORE

Bay Area Rapid Transit District June 12, 1992 Page 3

- Install three groundwater monitoring wells, one upgradient and two downgradient of the USTs to assess the extent of fuel hydrocarbon contamination in the groundwater. Based on the results of the well installations it may be necessary to install additional monitoring wells to fully evaluate the extent, vertical and lateral, of fuel hydrocarbon contamination.
- Because elevated concentrations of TPH were detected in shallow soils (2-3 feet bgs) outside of the anticipated excavation area, possibly due to surface spillage, we recommend excavating the shallow soil downslope of the fuel dispensing station during the tank removal. The amount of additional soil to be evacuated will have to be determined in the field during excavation. In addition, because the area of excavation will increase, more confirmatory samples will have to be collected.

The recommendations are outside the scope of work of WD-07. We look forward to discussing the results with you.

Very truly yours,

DAMES & MOORE

Graeme W. Nyland, C.E.G. GES Program Manager

Erik Skov Project Geologist

cc: Eugene Burkman
Supervising Engineer DPX

TABLE 1 SUMMARY OF SOIL ANALYTICAL DATA¹ CASTRO VALLEY UNIFIED SCHOOL DISTRICT CORPORATION YARD 21000 WILBEAM AVE, CASTRO VALLEY

| | | 5 |
|----|-----|---|
| /: | PPD | / |
| | 11/ | |

| | Sample | Analytes | | | | | | | | |
|------------|-------------|-----------------|---------------|------------------|-------|----------------|----------------|-----------------|----------------------|--------|
| Boring No. | Depth (ft.) | TPH Gasoline | TPH Diesel | B ^{1,2} | T^2 | E ² | X ² | Organic Lead | Volatile Organics | TRPH* |
| 051WB01-01 | 2.5 | 7,900 | - 5 | 310 | 38 | 180 | 210 | - | NA ² | NA |
| 051WB01-02 | 5.0 | - | - | - | - | _ | - | - | NA | NA |
| 051WB01-03 | 10.0 | - | - | - | - | - | - | _ | NA NA | NA |
| 051WB01-04 | 7.5 | | - | - | - | - | - | - | NA | NA |
| 051WB02-01 | 2.0 | | - | - | - | - | - | - | NA NA | NA |
| 051WB02-02 | 5.0 | - | - | - | - | _ | <u> </u> | _ | NA | NA |
| 051WB02-03 | 7.5 | - | - | - | - | _ | _ | - | NA | NA |
| 051WB02-04 | 10.0 | - | - | - | - | - | - | - | NA | NA |
| 051WB03-01 | 2.5 | 20,000 | - | 810 | 130 | 250 | 380 | | NA | NA |
| 051WB03-02 | 5.0 | - | - | - | - | _ | _ | - | NA | NA |
| 051WB03-03 | 7.5 | 820 | - | 150 | 5.8 | 15 | 5.0 | - | NA NA | NA |
| 051WB03-04 | 9.5 | - | - | - | - | - | - | - | NA | NA |
| 051SB01-01 | 2.5 | NA | NA | NA | NA | NA | NA | NA | • | _ |
| 051SB01-02 | 5.0 | NA | NA | NA | NA | NA | NA · | NA | - | - |
| 051SB02-01 | 2.5 | NA | NA | NA | NA | NA | NA | NA | - | 14,000 |
| 051SB02-02 | 5.0 | NA | NA | NA | NA | NA | NA | NA | | 8,000 |
| 051SB02-03 | 10.0 | NA | NA | NA | NA | NA | NA | NA | - | 7,000 |
| 051SB03-01 | 2.5 | NA | NA | NA | NA | NA | NA | NA | - | 6,000 |
| 051SB03-02 | 5.0 | NA | NA | NA | NA | NA | NA | NA | _ | 6,000 |

1) All results in µg/kg (ppb) unless otherwise stated. All samples analyzed by CKY Environmental Services of Pleasanton, California.

776

~ /

²⁾ BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

³⁾ NA = Not Analyzed

⁴⁾ TRPH = Total Recoverable Petroleum Hydrocarbons

^{5) - =} Not Detected

TABLE 2 SUMMARY OF GRAB GROUNDWATER ANALYTICAL DATA! CASTRO VALLEY UNIFIED SCHOOL DISTRICT CORPORATION YARD 21000 WILBEAM AVE., CASTRO VALLEY

| ! | ТРН | Analytes | | | | | | |
|---------------------|---------------|------------------|----------------|-----|----|-----------------|-------------------|-----------------|
| Boring No. Gasoline | TPH Diesel | B² | T ² | E² | X² | Organic Lead | TRPH ⁵ | |
| 051WB01-01 | 320 | 530 ³ | 1.5 | 1.2 | _6 | - | - | NA ⁴ |
| 051WB02-01 | 80 | - | - | - | - | - | - | NA |
| 051 WB03- 01 | 1,900 | 360³ | 440 | 90 | 38 | 5.5 | _ | NA |
| 051SB02-01 | NA | NA | NA | NA | NA | NA | NA | |

- 1) All results in $\mu g/L$ unless otherwise stated. All samples analyzed by CKY Environmental Services of Pleasanton California.
- 2) BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
- 3) Results are from hydrocarbon range C6-C14 and are likely interference from heaving fraction gasoline constituents.
- 4) NA = Not Analyzed
- 5) TRPH = Total Recoverable Petroleum Hydrocarbons
- 6) = Not Detected

APPENDIX C CONFIRMATORY SAMPLING ANALYTICAL RESULTS



C K Y incorporated Environmental Services

Date: 06/29/92

N9206-22

Dames & Moore 2101 Webster St., #300 Oakland, CA 94612

Attn: Mr. Erik Skov

Subject: Laboratory Report

Project: BART Castro Valley

Enclosed is the laboratory report for samples received on 06/25/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

| <u>Method</u> | <u>No. of Analysis</u> |
|------------------------------|------------------------|
| M8015 Gas/Diesel EPA 8020 | 4 Soil 4 Soil |
| Total Lead | 4 Soil |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Danny Hoand Laboratory Director confirmatory soil samples

EPA METHOD - 8020 BTEX

| PP======= | ======================================= | |
|-------------|-----------------------------------------|-------------------------|
| CLIENT: | Dames & Moore | DATE REC'D: 06/25/92 |
| PROJECT: | BART CV | DATE ANALYZED: 06/26/92 |
| CONTROL NO: | N9206-22 | MATRIX TYPE: Soil |
| | ~ | |

| SAMPLE ID: | CONTROL NO: | <u>Benz</u> | RES Tol | ULTS (ug/ Et Benz | kg) <u>Xyls</u> | % SURRO RECOVERY |
|-------------|-------------|-------------|------------|----------------------|--------------------|---------------------|
| DTCS-1 | N9206-22-1 | ND | ND | ND | ND | 85 |
| DTCS-2 | N9206-22-2 | 10 | ND | ND | 17 | 78 |
| RTCS-1 | N9206-22-3 | ND | ND | ND | ND | 108 |
| RTCS-2 | N9206-22-4 | ИD | 10 | 10 | 30 | 112 |
| DETECTION L | MIT | 5 ====== | 5 | 5 | 5 | |

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT: Dames & Moore
PROJECT: BART-CV DATE REC'D: 06/25/92 DATE ANALYZED: 06/26/92 MATRIX: Soil CONTROL NO: N9206-22

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DET. LIMIT (mg/kg) | * SURRO RECOVERY |
|------------|-------------|-----------------|-----------------------|---------------------|
| DTCS-1 | N9206-22-1 | ND | 5.0 | 85 |
| DTCS-2 | N9206-22-2 | ND | 5.0 | 78 |
| RTCS-1 | N9206-22-3 | ND | 5.0 | 108 |
| RTCS-2 | N9206-22-4 | ND | 5.0 | 112 |

EPA METHOD Mod. 8015 TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Dames & Moore PROJECT: BART-CV

CONTROL NO: N9206-22

DATE REC'D: 06/25/92 DATE EXTRACTED:06/26/92 DATE ANALYZED: 06/26/92

MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | H-C RANGE |
|------------|-------------|--------------------|-----------|
| DTCS-1 | N9206-22-1 | ND | N.A. |
| DTCS-2 | N9206-22-2 | ND | N.A. |
| RTCS-1 | N9206-22-3 | ND | N.A. |
| RTCS-2 | N9206-22-4 | ND | N.A. |

DETECTION LIMIT: 5 mg/kg

EPA METHOD 3050/6010 TOTAL LEAD

CLIENT: Dames & Moore DATE REC'D: 06/25/92
PROJECT: BART-CV DATE ANALYZED: 06/29/92
CONTROL NO: N9206-22 MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DETECTION LIMIT (mg/kg) |
|--------------|-------------|--------------------|-------------------------|
| Method Blank | N9206-22 | ND | 5.0 |
| DTCS-1 | N9206-22-1 | 27 | 5.0 |
| DTCS-2 | N9206-22-2 | 30 | 5.0 |
| RTCS-1 | N9206-22-3 | 27 | 5.0 |
| RTCS-2 | N9206-22-4 | 31 | 5.0 |

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-22

METHOD

EPA 8020

MATRIX:

Soil

SAMPLE ID:

N9206-22-1

| COMPOUND | SAMPLE <u>RESULTS</u> (ug/kg) | AMOUNT SPIKED (ug/kg) | % REC. | DUP. % REC. | RPD | |
|---------------|-------------------------------------|-----------------------------|----------|----------------|-----|------|
| Benzene | ND | 20 | 85 | 80 | 6 | |
| Toluene | ND | 20 | 90 | 90 | 0 | |
| Ethyl Benzene | ND | 20 | 110 | 115 | 4 | |
| Xylene | ND | 20 | 133 | 118 | 12 | |
| | ======= | ======== | ======== | | | ==== |

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-22

METHOD

EPA M8015G

MATRIX:

Soil

SAMPLE ID:

N9206-22-1

| COMPOUND | SAMPLE RESULTS (mg/kg) | AMOUNT SPIKED (mg/kg) | % REC. | DUP. % REC. | RPD |
|----------|------------------------------|-----------------------------|--------|----------------|-----|
| Gas | ND | 2 | 90 | 80 | 12 |

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-22

METHOD

EPA M8015D

MATRIX:

Soil

SAMPLE ID:

N9206-22-1

SAMPLE AMOUNT DUP. RPD COMPOUND RESULTS SPIKED % REC. % REC. (mg/kg) (mg/kg) Diesel ND 500 109 1 108

LABORATORY CONTROL SAMPLE

CLIENT:

Dames & Moore

PROJECT: CONTROL NO:

BART-CV N9206-22

METHOD

EPA 3050/6010

MATRIX:

Soil

LOT NO::

212

TRUE COMPOUND FOUND VALUE % REC (mg/kg) (mg/kg) Lead 76 74 103

CLIENT:

Dames & Moore

PROJECT: CONTROL NO:

BART-CV N9206-22

METHOD

EPA 3050/6010

MATRIX:

Soil

SAMPLE ID: 9206104-4

| COMPOUND | SAMPLE RESULTS (mg/kg) | AMOUNT <u>SPIKED</u> (mg/kg) | % REC. | DUP. § REC. | RPD |
|----------|------------------------------|------------------------------------|--------|----------------|-----|
| Lead | 410 | 100 | 110 | 130 | 17 |

1. 3206-22

| | PHONE NO. 510 637 | Dungs & Dungs | Mar. | <u>~દ</u> | CHAIN (REQUI DA PA | EST FO | OR A | DY REC NALYS — | | EX CE | + · / dioiQ. | 1/8/ | m. | (| 1 | 4 | 7 | CK \ Envir 3942 Pleasi Tel: ! | onm Valle; anton 510-8 | entai Avei CA 9 46-31 | Serv 10e, S 14566 88 | uste F | |
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| | SEND REPORT TO: | rik Skev | | 7 | | TURN AR | OUND: | | , | B | 3 | 1-10 | · | - , | | | | | <u> </u> | | | | |
| | SAMPLER NAME/SIGNATU | IRE | | - | - | NORMA | | | | - | 2 | 10 | | . AS | VALY | SES | REQ | UIRE | <u>D</u> | | | | |
| | * * * | • • | į | | | AUSH | | | | 2 | 1 | 1 | 8 | 75 | អូ | etals | | | | | - | | |
| | SAMPLE NUMBER | SAMPLING DATE/TIME | | PRESER- | - CONTAINER SIZE/TYPE | SAMPLE WATER | | NCITHER | 418.1 | M8015 | | | 9080/ed | 8240/624 | 8270/625 | CAM Metal | | 1., | | | | | |
| ۱ | DTC5-1 | 10/25/12 | | | 3" 33 Pina | | ìγ | | | X | X | X | 1 | | - | | | | | | | | Π |
| ᅺ | 6 DTC5-2 | 6/25/92 | 3 | ! | 3135 Ping | | <u>)</u> | : | | X | X | X | | | | | | | | | | | 一 |
| 3 | ATC6-1 | 6/25/92 | | 1 | 3"44 Zing | | λ | ; | | X | X | - | | | | | | | | | , | | |
| 4 | RTC5-2 | 6125192 | - | | 3"54 Rina | | λ | ļ | | X | X | X | | | • | | | | | | | | <u> </u> |
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| ļ | <u>, , , , , , , , , , , , , , , , , , , </u> | | | | | | | | - | | | | | | | | , | | | | | | |
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| | COMMENTS KUN | for 8015G | as t | BTEX | 18015 DIE | sel, | Total | lead | 7 | P | 1 | 出 | ! - | Ž | 4 | # | Γ. | T | ur | - -W | VČ | W | nt |
| T | Relinguished by (Signature | Date: | | d/by/iSig | nature) Date | -/9- | Reimgu | shed by: (Se | onatú | re) | Date | == <u>-</u> e: | | Re | Ceiv | d by | /: (Si | netu | | 1 | Dai | | |
| 1 | Company. Lines d NEOVE | Time: | Compa | ny l | Time | | Compa |)) | | ┪ | . Iim | e: | | Co | mpa | ny: | | | - | | Tim | e: | |



C K Y incorporated Environmental Services

Date:

06/29/92

N9206-30

Dames & Moore

2101 Webster St., Suite 300

Oakland, CA 94612

Attn:

Mr. Erik Skov

Subject:

Laboratory Report

Project:

BART-Castro Valley

Enclosed is the laboratory report for samples received on 06/26/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

| Method | No. of Analysis |
|------------------|-----------------|
| M8015 Gas/Diesel | 5 Soil |
| EPA 8020 | 5 Soil |
| Lead | 5 Soil |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Danny Hoang

Laborato#y Director

Confirmatory soil samples

EPA METHOD Mod. 8015 TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Dames & Moore PROJECT: BART-CV DATE REC'D: 06/26/92 DATE EXTRACTED: 06/28/92 DATE ANALYZED: 06/28/92 CONTROL NO: N9206-30

MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | H-C RANGE |
|------------|-------------|-----------------|-----------|
| UTCS-1 | N9206-30-1 | 140 | C6-C14 |
| UTCS-2 | N9206-30-2 | 80 | C6-C14 |
| DDCS-1 | N9206-30-3 | ND | N.A. |
| RDCS-1 | N9206-30-4 | ND | N.A. |
| RTVLCS-1 | N9206-30-5 | ND | N.A. |

DETECTION LIMIT: 5.0 mg/kg

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT: Dames & Moore DATE REC'D: 06/26/92
PROJECT: BART-CV DATE ANALYZED: 06/28/92
CONTROL NO: N9206-30 MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DETECTION LIMIT (mg/kg) |
|------------|-------------|-----------------|-------------------------|
| UTCS-1 | N9206-30-1 | *1100 | 1.0 |
| UTCS-2 | N9206-30-2 | *810 | 1.0 |
| DDCS-1 | N9206-30-3 | 7.5 | 1.0 |
| RDCS-1 | N9206-30-4 | 5.5 | 1.0 |
| RTVLCS-1 | N9206-30-5 | ND | 1.0 |

^{*} Dilution of 1:100

EPA METHOD - 8020 BTEX

| ========== | | |
|------------------------------------|--------------------------------------|----------------------------------------------------------------------|
| CLIENT: PROJECT: CONTROL NO: | Dames & Moore BART-CV N9206-30 | DATE REC'D: 06/23/92 DATE ANALYZED: 06/28/92 MATRIX TYPE: Soil |
| | | |

| SAMPLE ID: | CONTROL NO: | Bone | _ | JLTS (ug/ | | |
|-----------------------------------------|--------------|-------------|------------|----------------|-------------|------------|
| BILLIDE ID. | CONTROL NO: | <u>Benz</u> | <u>Tol</u> | <u>Et Benz</u> | <u>Xyls</u> | |
| UTCS-1 | N9206-30-1 | 7300 | 2800 | 44000 | 20000 | |
| UTCS-2 | N9206-30-2 | 4800 | 1400 | 37000 | 16000 | |
| DDCS-1 | N9206-30-3 | 700 | 310 | 310 | 960 | |
| RDCS-1 | N9206-30-4 | 440 | 1000 | 200 | 1200 | |
| RTVLCS-1 | N9206-30-5 | ND | ND | ND | ND | |
| DETECTION L | | 5 | 5 | 5 | 5 | |
| * Dilution of | | | | | | |
| ** Dilution | of 1:10 | | | | | |
| ======================================= | ============ | ===== | ===== | ====== | | ========== |

EPA METHOD 7421 TOTAL LEAD

| ========= | :====================================== | | |
|---------------------|-----------------------------------------|---------|----------|
| CLIENT: PROJECT: | Dames & Moore BART-CV | | 06/26/92 |
| CONTROL NO: | N9206-30 | MATRIX: | Soil |

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DETECTION LIMIT (mg/kg) |
|--------------|-------------|-----------------|-------------------------|
| UTCS-1 | N9206-30-1 | 40 | 5.0 |
| UTCS-2 | N9206-30-2 | 45 | 5.0 |
| DDCS-1 | N9206-30-3 | 52 | 5.0 |
| RDCS-1 | N9206-30-4 | 60 | 5.0 |
| RTVLCS-1 | N9206-30-5 | 26 | 5.0 |
| Method Blank | N9206-30 | ND | 5.0 |

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-30

METHOD

EPA 8020

MATRIX:

Soil

SAMPLE ID:

N9206-30-5

| COMPOUND | SAMPLE <u>RESULTS</u> (ug/kg) | AMOUNT SPIKED (ug/kg) | % REC. | DUP. § REC. | RPD | |
|---------------|-------------------------------------|-----------------------------|---------|----------------|---------|------|
| Benzene | ND | 10 | 92 | 86 | 6 | |
| Toluene | ND | 10 | 87 | 85 | 2 | |
| Ethyl Benzene | ND | 10 | 73 | 71 | 2 | |
| Xylene | ND | 10 | 85 | 88 | 3 | |
| | | ======= | ======= | -======= | z====== | ==== |

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-30

METHOD

EPA M8015G

MATRIX:

Soil

SAMPLE ID: N9206-30-5

SAMPLE AMOUNT DUP. COMPOUND RESULTS SPIKED % REC. % REC. RPD (mg/kg) (mg/kg)Gasoline ND 2 85 85 0

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-30

METHOD

EPA M8015D

MATRIX:

Soil

SAMPLE ID: N9206-30-5

| COMPOUND | SAMPLE RESULTS (mg/kg) | AMOUNT SPIKED (mg/kg) | % REC. | DUP. <u>% REC.</u> | RPD |
|----------|------------------------------|-----------------------------|--------|-----------------------|-----|
| Diesel | ND | 500 | 82 | 90 | 9 |

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-30

METHOD

EPA Lead

MATRIX:

Soil

SAMPLE ID:

NS206-30-5

AMOUNT SAMPLE DUP. COMPOUND RESULTS SPIKED 多 REC. % REC. RPD (mg/kg) (mg/kg) Lead 26 100 86 90

| CLIENT NAME: Dernes & ADDRESS: 2101 PHONE NO.510 837-3 PROJECT NAME: Bat' SEND REPORT TO: ET | and CA | 1461. | uite 30 2 Oxhod D | CHAIN (REQUI DA PAI Here's Corporation | EST FO | OR AI 26/9 of 1 | YALYS: | | SPEX OR | SAS DIESE | otal Lead | | | 1 VALY | 4 | 7 | Enu 394 Plea Tel: Fax: | ironi 2 Vali santo 510 510 | meni ley Av on, C/ -846- | venue, A 945 3188 | rvice Suite | | | |
|------------------------------------------------------------------------------------------------|-----------------------|---------|-------------------------|--------------------------------------------|----------------------------------|-----------------------|--------------|-----------|-------------|-----------|-----------|----------|--------|---------------|------------|----------|------------------------------------|----------------------------------------|-----------------------------------|-------------------------|----------------|---------------|----------|------|
| SAMPLER NAME/SIGNATUI SAMPLE NUMBER | SAMPLING DATE/TIME | | PRESER- VATIVE | CONTAINER SIZE/TYPE | NORMA RUSH SAMPLE WATER | ر د | | 418.1 | M8015 Gas + | N TOWNTON | | 809/0908 | | 8270/625 | CAM Metals | *** | | | | | | | | |
| UTCS-17 | 6/26/92 | | | 3" Stainley | | X | | | X | X | X | | | | | | Τ | T | T | | , | · jin | , ij | |
| UTC5-2* | 1,126/92 | | | 31 Stamps | | X | | | X | X | Χ | | | | | | Τ | | T | 1 | | 75 | , gir | 1 |
| DDCS-1 | 6/2/1/92 | | | 3" Stainlers | | X | | | X | X | X | | | | | | | T | Τ | Τ | - 13 | - T AL | 125 | |
| RDCS-1 | 6/11/97 | | | 3"Stainless | | X | | | X | X | λ | | | | | | | T | T | T | 1 .4 | ¥ 13 | 4 | |
| RTILLCS-1 | 10/26/72 | | | 3"Stainless | | X | | | | X | χ | | | | | | | | | 4 | 4 25 | 斌 | 3.4 | .] 💆 |
| | | | | | | | | - | | | | | \neg | \neg | | | | T | | . 💏 | | | " | 2 |
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| | | | | | | <u> </u> | | - | | \dashv | | | -† | ١ | 7 | ., | H-72 | ji ini | 7.1 | | | | 34 | |
| 4 | | ١. ١ | | | | | <u> </u> | - | | | | _ | 一十 | \dashv | 7 | | 1,5 | 16. | | 1 | 124 | 2 | 339 | 1 |
| | | | | | | | | - | | \dashv | | + | | + | + | | 34 | 福 | Sen | 1 | J. was | 200 | 1.5 | |
| | | | | | | | | | | ┥ | \dashv | + | | | | •32 | * | • : | - | 1 | 15. | + | + | 7 |
| COMMENTS: | USHD | | 24 / | Ar. Tu | irna | BK | nd Ru | Se n F | imp or | 801 | 5 / | yod | 050 | asse Casse | (ine | 2+ | BTI | ø, | & | 511 | bd | Dies | el, 1 | Te |
| Relinguished by: (Signature | Date: 19: | Accelve | d-by: (Sig | natoro, par | 3// | Relinguis | hed by: (Si | gnatu | ite) | Date | D: | | Fie | ceive | d b | y: (S | igna | ture) | | 1 | Date: | | <i>'</i> | r |
| Company: Donze + Nove | Time: | Comp | any: | Time | | Compan | y: | | 1 | Tim | : | | co | mpa | ny: | | | | | 1 | ime: | | | |



C K Y incorporated Environmental Services

Date: 07/02/92

N9206-34

Dames & Moore 2101 Webster St. # 300 Oakland, CA 94612

Attn: Mr. Erik Skov

Subject: Laboratory Report

Project: BART-CV

Enclosed is the laboratory report for samples received on 06/30/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

| Method | No. of Analysis |
|------------------|-----------------|
| M8015 Gas/Diesel | 5 Soil |
| EPA 8020 | 5 Soil |
| LEAD | 5 Soil |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Laboratory Director

Confirmatory soil samples

EPA METHOD 7421 TOTAL LEAD

CLIENT: Dames & Moore DATE REC'D: 06/30/92
PROJECT: BART-CV DATE ANALYZED: 07/02/92
CONTROL NO: N9206-34 MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DETECTION LIMIT (mg/kg) |
|--------------|-------------|--------------------|-------------------------|
| Method Blank | N9206-34 | ND | 5.0 |
| DDCS-2 | N9206-34-1 | 45 | 5.0 |
| UTCS-3 | N9206-34-2 | 31 | 5.0 |
| UTCS-4 | N9206-34-3 | 39 | 5.0 |
| UTCS-5 | N9206-34-4 | 26 | 5.0 |
| UTCS-6 | N9206-34-5 | 46 | 5.0 |
| | | | |

LABORATORY CONTROL SAMPLE

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO:

N9206-34

多 REC

METHOD

EPA Lead

MATRIX:

Soil

LOT NO::

212

COMPOUND FOUND VALUE

(mg/kg) (mg/kg)

Lead 72 74 97

CLIENT:

Dames & Moore

PROJECT:

BART-CV

CONTROL NO: N9206-34

METHOD

EPA Lead

MATRIX:

Soil

SAMPLE ID: N9206-34-1

SAMPLE AMOUNT

COMPOUND

RESULTS SPIKED (mg/kg) (mg/kg)

% REC.

Lead

44

100

92

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT: Dames & Moore DATE REC'D: 06/30/92
PROJECT: BART-CV DATE ANALYZED: 06/30/92
CONTROL NO: N9206-34 MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DET. LIMIT (mg/kg) | % SURRO RECOVERY |
|------------------------------------------------|--------------------------------------------------------------------|----------------------|--------------------------|----------------------------|
| DDCS-2 UTCS-3 UTCS-4 UTCS-5 UTCS-6 | N9206-34-1 N9206-34-2 N9206-34-3 N9206-34-4 N9206-34-5 | ND ND ND ND | 5.0 5.0 5.0 5.0 | 91 96 80 65 92 |
| ========== | ==================================== | | | -====== |

EPA METHOD Mod. 8015 TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Dames & Moore DATE REC'D: 06/30/92
PROJECT: BART-CV DATE EXTRACTED:06/30/92
CONTROL NO: N9206-34 DATE ANALYZED: 06/30/92

MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | H-C RANGE |
|------------|-------------|-----------------|-----------|
| DDCS-2 | N9206-34-1 | ND | N.A. |
| UTCS-3 | N9206-34-2 | ND | N.A. |
| UTCS-4 | N9206-34-3 | ND | N.A. |
| UTCS-5 | N9206-34-4 | ND | N.A. |
| UTCS-6 | N9206-34-5 | ND | N.A. |

DETECTION LIMIT: 5.0 mg/kg

EPA METHOD - 8020 BTEX

| ========== | | |
|------------------------------------|--------------------------------------|----------------------------------------------------------------|
| CLIENT: PROJECT: CONTROL NO: | Dames & Moore BART-CV N9206-34 | DATE REC'D: 06/30/92 DATE ANALYZED: 06/30/92 MATRIX TYPE: Soil |

| SAMPLE ID: | CONTROL NO: | <u>Benz</u> | RES Tol | ULTS (ug/ Et Benz | kg) <u>Xyls</u> | % SURRO RECOVERY |
|------------------------------------------------|--------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|
| DDCS-2 UTCS-3 UTCS-4 UTCS-5 UTCS-6 | N9206-34-1 N9206-34-2 N9206-34-3 N9206-34-4 N9206-34-5 | ND ND ND ND | ND ND ND ND | ND ND ND ND | ND ND ND ND | 91 96 80 65 92 |
| DETECTION L | [MIT | 5 | 5 | 5 | 5 | |

CLIENT:

Dames & Moore

PROJECT: CONTROL NO: N9206-34

BART-CV

METHOD

EPA M8015G

MATRIX:

Soil

SAMPLE ID: N9206-29-10

| COMPOUND | SAMPLE RESULTS (mg/kg) | AMOUNT <u>SPIKED</u> (mg/kg) | % REC. | DUP. % REC. | RPD |
|----------|------------------------------|------------------------------------|--------|----------------|-----|
| Gasoline | ND | 2 | 110 | 120 | 9 |

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9206-34

METHOD EPA 8020 MATRIX: Soil

BAMPLE ID: N9206-29-10

SAMPLE AMOUNT DUP. COMPOUND RESULTS % REC. <u>SPIKED</u> % REC. RPD (ug/kg) (ug/kg) Benzene ND 20 9 120 110 Toluene ND 20 80 85 6 Ethyl Benzene ND 20 80 80 0 Xylene ND 40 103 93 10

CLIENT:

Dames & Moore

PROJECT: CONTROL NO: BART-CV N9206-34

METHOD

EPA M8015D

MATRIX:

Soil

SAMPLE ID:

N9206-29-15

DUP. AMOUNT SAMPLE % REC. % REC. **RPD** RESULTS SPIKED COMPOUND (mg/kg) (mg/kg) 128 3 124 500 ND Diesel

| NAME: DAME: ADDRESS: 2(0) PHONE NO. 5(0 - 8) PROJECT NAME: BAK SEND REPORT TO: | T. CASTRO | CAS Vall | 576 | 2 P/ | (GE/ | _ OF | NALY | 919 | 近 | 5Dezel | P = 7 | | | Y | Ent 394 Plet Tel: | ironm 2 Valle 4 anton 5 10-8 | corpore Bental ; By Avenu By CA 94 B46-318 B46-123 | Service ve. Suite 4566 RR | es eF | |
|--------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------|-------------------|------------------------|--------------|-------------|-------------|---------|------------------------|--------------------------------------------------|----------------|---------------|--------|--------------------------------------------------|----------------------------|---------------------------------------|-------------------------------------------------------------------|------------------------------------|--------------|---|
| AMPLER NAME/SIGNATI | URE | | 1 | | | AROUND ' | IME | L | W. | · 80 | <u> </u> | AN | JAI VS | EC D | EQUIR | | | | | |
| GEORGE | \hookrightarrow | رو | x | حـــ | NORA | | J. | Г | | Ξ [- | 6 — | | | -C3 R | EGUIH | <u></u> | | | | |
| SAMPLE | SAMPLING | | 1 | | RUSH | | * | | Š, | 8 | 8 | * | 73 | 雪 | | | | | | |
| NUMBER | DATEGUAG | | PRESER- VATIVE | CONTAINER SIZE/TYPE | SAMPL | | IPTION | 418.1 | M8015 | | 809/0808 | 8240/624 | % 0 | CAM Metals | | | | | | |
| DDCS-Z | 6/20/92 | 2:30 | | | WATER | | OTHER | 1= | ₹ ₹ | 8 | 8 | 8 | 82 | ₹ | | | | | | |
| UTCS-3 | 1 | 1 | | 3 Stoinless | | <u> </u> | | | XX | X | | \neg | \top | | T | | | | _ | 7 |
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| | | 1 1 | | | | | | - | | | | | | | | _ | | | | Γ |
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| IMENTS: Kun da | or 805 M | C064 t | BTEX | | <u>.</u> | <u> </u> | | | | | _L | | | | \bot | | | | | _ |
| guished by (Signature) | 2015 M Total | DIESE Legal Metalived | by: (Signat | | / | | | | | 2 | 24 | H | • | X | Vic | SH. | = [| T | | |
| eany: | Time: | | | Sec. 19 /30 | | lelinguishe | d by: (Sign | ature | Dat | 0 ; | | leceiv | ed b | v: (Sig | nature | | Dat | <u> </u> | | |
| em + Middle | 15:30 | Company | 1/1 | Time | C | ompany: | | | Tim | | | | | , , , , , , | | <i>,</i> | Da | (e ; | | |
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| and post of damping | Contract of | Lat Cloy to | c 30 days a | no charge and at | 10/ | | · | | 1 | | | | | | | | 1 | | | |

APPENDIX D WASTE CHARACTERIZATION AND DISPOSAL DOCUMENTS



C K Y incorporated Environmental Services

Date: 08/17/92 N9208-01

Dames & Moore 2101 Webster Street, #300 Oakland, CA 94612

Attn: Mr. Erik Skov

Subject: Laboratory Report

Method

Project: BART-Castro Valley

Enclosed is the laboratory report for samples received on 08/04/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

No. of Analysis

| M8015 (Gas/Diesel) | 5 Comp. Soil/1 Water |
|--------------------|----------------------|
| EPA 8020 | 5 Comp. Soil/1 Water |
| RCI | 5 Comp. Soil |
| STLC Lead | 5 Comp. Soil |
| TCLP BTEX | 5 Comp. Soil |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Danny Hoang

Laboratory Director

EPA METHOD - 8020 BTEX

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE ANALYZED: 08/04/92
CONTROL NO: N9208-01 MATRIX TYPE: Soil

| SAMPLE ID: | CONTROL NO: | <u>Benz</u> | | J LTS (ug/ <u>Et Benz</u> | kg) <u>Xyls</u> | % SURRO RECOVERY |
|--------------------------|------------------------------|-------------|----------|-------------------------------------------|--------------------|---------------------|
| C1-1,2,3,4 C2-1,2,3,4 | N9208-01-1:4 N9208-01-5:8 | ND ND | ND ND | ND ND | ND ND | 96 88 |
| C3-1,2,3,4 | N9208-01-9:12 | ND | ND | ND | ND | 75 |
| C4-1,2,3,4 | N9208-01-13:16 | 6 ND | ND | ND | ND | 70 |
| C5-1,2,3,4 | N9208-01-17:20 | о ир | ND | ИД | ND | 76 |
| DETECTION LI | | 5 | 5 | 5 ==================================== | 5 | |

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE ANALYZED: 08/05/92
CONTROL NO: N9208-01 MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DET. LIMIT (mg/kg) | % SURRO RECOVERY |
|------------|----------------|-----------------|-----------------------|---------------------|
| C1-1,2,3,4 | N9208-01-1:4 | ND | 5.0 | 96 |
| C2-1,2,3,4 | N9208-01-5:8 | ND | 5.0 | 88 |
| C3-1,2,3,4 | N9208-02-9:12 | ND | 5.0 | 75 |
| C4-1,2,3,4 | N9208-02-13:16 | ND | 5.0 | 70 |
| C5-1,2,3,4 | N9208-02-17:20 | ND | 5.0 | 76 |

EPA METHOD Mod. 8015 TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE EXTRACTED:08/05/92
CONTROL NO: N9208-01 DATE ANALYZED: 08/05/92

MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | (mg/kg) | |
|------------------|----------------|---------|---------|
| C1-1,2,3,4 | N9208-01-1:4 | 16 | C12-C24 |
| C2-1,2,3,4 | N9208-01-5:8 | 7.2 | C12-C24 |
| C3-1,2,3,4 | N9208-01-9:12 | 45 | C12-C24 |
| C4-1,2,2,4 | N9208-01-13:16 | 150 | C12-C24 |
| C5-1,2,3,4 | N9208-01-17:20 | 28 | C12-C24 |
| DETECTION LIMIT: | 5 mg/kg | | |
| | | | |

RESULTS H-C RANGE

EPA METHOD - TCLP 8020 BTEX

| ###################################### | | ### ########################## |
|----------------------------------------|---------------|---------------------------------------|
| CLIENT: | Dames & Moore | DATE REC'D: 08/04/92 |
| PROJECT: | BART-CV | DATE ANALYZED: 08/14/92 |
| CONTROL NO: | N920801 | MATRIX TYPE: Soil |
| | | |

| SAMPLE ID: | CONTROL NO: E | Benz | | JLTS (ug/ Et Benz | | % SURRO RECOVERY |
|--------------|---------------|------|----|----------------------|----|---------------------|
| C1-1,2,3,4 | n920801-1:4 | ND | ND | ND | ND | 77 |
| C2-1,2,3,4 | n920801-5:8 | ND | ND | ND | ND | 77 |
| C3-1,2,3,4 | n920801-9:12 | ND | ND | ND | ND | 73 |
| C4-1,2,3,4 | n920801-13:16 | ND | ND | ND | ND | 67 |
| C5-1,2,3,4 | n920801-17:20 |) ND | ND | ND | ND | 89 |
| TCLP Blank | n920801 Blk | ND | ND | ND | ND | 97 |
| DETECTION LI | MIT | 5 | 5 | 5 | 5 | |

WET EPA 3010/6010 STLC LEAD by ICP

| CLIENT: PROJECT: | Dames & Moore BART-CV | DATE REC'D: DATE ANALYZED: | 08/04/92 |
|------------------|------------------------|-------------------------------|----------|
| CONTROL NO: | N920801 | MATRIX: | Water |

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/L) | DETECTION LIMIT (mg/L) |
|------------|---------------|----------------|------------------------|
| C1-1,2,3,4 | n920804-1:4 | 0.13 | 0.10 |
| C2-1,2,3,4 | n920804-5:8 | 0.11 | 0.10 |
| C3-1,2,3,4 | n920804-9:12 | 0.20 | 0.10 |
| C4-1,2,3,4 | n920804-13:16 | 0.30 | 0.10 |
| C5-1,2,3,4 | n920804-17:20 | 0.13 | 0.10 |

EPA 376.1 REACTIVE SULFIDE

| | ======================================= | |
|-------------|-----------------------------------------|--------------------------|
| CLIENT: | Dames & Moore | DATE REC'D: 08/04/92 |
| PROJECT: | BART-CV | DATE EXTRACTED: 08/06/92 |
| CONTROL NO: | N9208-01 | DATE ANALYZED: 08/06/92 |
| MATRITY: | Sail | |

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DETECTION LIMIT (mg/kg) |
|------------|----------------|-----------------|-------------------------|
| C1-1,2,3,4 | N9208-01-1:4 | ND | 50 |
| C2-1,2,3,4 | N9208-01-5:8 | ND | 50 |
| C3-1,2,3,4 | N9208-01-9:12 | ND | 50 |
| C4-1,2,3,4 | N9208-01-13:16 | ND | 50 |
| C5-1,2,3,4 | N9208-01-17:20 | ND | 50 |
| | | | |

EPA 335.2 REACTIVE CYANIDE

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE EXTRACTED:08/06/92
CONTROL NO: N9208-01 DATE ANALYZED: 08/07/92
MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/kg) | DETECTION LIMIT (mg/kg) |
|------------|----------------|--------------------|-------------------------|
| C1-1,2,3,4 | N9208-01-1:4 | ND | 50 |
| C2-1,2,3,4 | N9208-01-5:8 | ND | 50 |
| C3-1,2,3,4 | N9208-01-9:12 | ND | 50 |
| C4-1,2,3,4 | N9208-01-13:16 | ND | 50 |
| C5-1,2,3,4 | N9208-01-17:20 | ND | 50 |

EPA 120.1 ELECTRICAL CONDUCTIVITY

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE EXTRACTED:08/06/92
CONTROL NO: N9208-01 DATE ANALYZED: 08/06/92
MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (uhoms/cm) | DET. LIMIT (uhoms/cm) |
|-----------------------------------------|-----------------------------------------|--------------------|-----------------------------------------|
| C1-1,2,3,4 | N9208-01-1:4 | 260 | 1.0 |
| C2-1,2,3,4 | N9208-01-5:8 | 300 | 1.0 |
| C3-1,2,3,4 | N9208-01-9:12 | 240 | 1.0 |
| C4-1,2,3,4 | N9208-01-13:16 | 270 | 1.0 |
| C5-1,2,3,4 | N9208-01-17:20 | 150 | 1.0 |
| ======================================= | ======================================= | | ======================================= |

EPA 1010 IGNITABILITY

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE ANALYZED: 08/07/92
CONTROL NO: N9208-01 MATRIX TYPE: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS | DETECTION LIMIT |
|------------|----------------|---------|-----------------|
| C1-1,2,3,4 | N9208-01-1:4 | 65 | 20 |
| C2-1,2,3,4 | N9208-01-5:8 | 61 | 20 |
| C3-1,2,3,4 | N9208-01-9:12 | 72 | 20 |
| C4-1,2,3,4 | N9208-01-13:16 | 62 | 20 |
| C5-1,2,3,4 | N9208-01-17:20 | 62 | 20 |

Dames & Moore CLIENT:

BART-CV PROJECT: N9208-01 CONTROL NO:

EPA 8020 METHOD

Soil MATRIX:

SAMPLE ID: N9208-01-1:4

| COMPOUND | SAMPLE <u>RESULTS</u> (ug/kg) | AMOUNT SPIKED (ug/kg) | % REC. | DUP. § REC. | RPD | |
|---------------|-------------------------------------|-----------------------------|--------|----------------|-----|---|
| Benzene | ND | 20 | 105 | 120 | 13 | = |
| Toluene | ND | 20 | 115 | 110 | 4 | |
| Ethyl Benzene | ND | 20 | 100 | 90 | 11 | |
| Xylene | ND | 40 | 95 | 98 | 3 | |

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA M8015G

MATRIX: Soil

SAMPLE ID: N9208-01-13:16

DUP. AMOUNT SAMPLE RPD % REC. % REC. RESULTS SPIKED COMPOUND (mg/kg) (mg/kg) 21 2 105 85 Gasoline ND

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA M8015D

MATRIX: Soil

SAMPLE ID: N9208-01-5:8

SAMPLE AMOUNT DUP. COMPOUND RESULTS SPIKED % REC. <u> % REC.</u> RPD (mg/kg) (mg/kg) Diesel 7.2 500 83 86 3

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N920801

METHOD EPA TCLP 8020

MATRIX: Soil

SAMPLE ID: 920836-1

SAMPLE AMOUNT DUP. COMPOUND RESULTS SPIKED % REC. % REC. RPD (mg/kg) (mg/kg) Benzene ND 12 108 92 16 Toluene ND 14 121 100 19 Chlorobenzene ND 15 113 100 12

CLIENT:

Dames & Moore

PROJECT:

BART-CV N920801

CONTROL NO:

METHOD

EPA WET 3010/6010

MATRIX:

Soil

SAMPLE ID: Blank Spike/Duplicate

| COMPOUND | SAMPLE <u>RESULTS</u> (mg/L) | AMOUNT SPIKED (mg/L) | % REC. | DUP. <u>* REC.</u> | RPD | |
|----------|------------------------------------|----------------------------|--------|-----------------------|-----|--|
| Lead | ND | 1.0 | 81 | 72 | 12 | |

QUALITY CONTROL FORM

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA 376.1

MATRIX Soil

SAMPLE ID N9208-01-17:20

SAMPLE DUP. SAMPLE

COMPOUND RESULT RESULT REPD

(mg/kg) (mg/kg)

Sulfide ND ND 0

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA 1010

MATRIX Soil

SAMPLE ID N9208-01-1:4

COMPOUND RESULT RESULT COCO

QUALITY CONTROL FORM

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA 335.2

MATRIX Soil

SAMPLE ID N9208-01-17:20

SAMPLE DUP. SAMPLE

COMPOUND RESULT RESULT & RPD

(mg/kg) (mg/kg)

Cyanide ND ND 0

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA 120.1

MATRIX Soil

SAMPLE ID N9208-01-1:4

SAMPLE DUP. SAMPLE

COMPOUND RESULT RESULT \$ RPD

(mg/kg) (mg/kg)

EC 260 260 0

03715-051 Field CHAIN OF CUSTODY RECORD CLIENT PAMES & MOORE REQUEST FOR ANALYSIS Ch') incorporated Lin transmental Services 3942 Valley Avenue, State F Mensaum, CA 94566 let - 510 846 3188 1 /5 510 846-1236 SAMPLER NAME/SIGNATURE TEHN AROUND TIME MNALYSES RECURRED PETER DAMS OF BUILD 14(1)311 SAMPLE SAMPLING PRESER CONTAINER NUMBER AMPLE OF SCHIPLIOTE DATE/TIME VATIVE SIZE/TYPE WATER SOIL निभाग C1-1 5. STEEL RING NOVE GARB COMMENT BENDING. INSTRUCTIONS Am. ERK SKOV. (0.000 lelinguished by Helinguished by (Signature) Date Company. fieceived by (Signature) Time Date. Company Time. Company Time. itorage/Disposal of Samples Sample will be stored at CKY for 30 days at no charge and in \$10 % emple/month thereafter. Disposal of sample by the Laboratory will be charged at \$10/sample

CLIENT NAME: DATINGS + NOONE E ADDRESS: 2101 WEBSTER CAV 99612 PHONE NO. 839-3600 FAX NO. PROJECT NAME: BIFT-CHSTRO VALLEY SEND REPORT TO: ELLES LOV

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS



10.3 incorporated Encironmental Services 24. Salley Avenas Sourel Pleasanna CA 94506 Jel. 510 816-3188 Ers. 510 846-1236

| SAMPLER NAME/SIGNA | TURE | | TURN AROUND TIME | | ANALYSES HEQUIRED | |
|-----------------------------------------------|------------------------------|------------------------------------|------------------|--------------------------------------|-----------------------------------------------|--------------------------------------------------|
| SAMPLE SAMPLE | SAMPLING | PRESER- CONTAINER | HUSH LI | 416 MSC 6 8710 601 8020 601 | | |
| NUMBER (4-) | 6/3/42 | NOME SISTEFU | WATER SOIL OTHER | | 808©-606 5246 62- 5273 52- CAI/ Meta | -11 1 |
| C4-3 | | | | | | |
| C5-1 | | | | | | |
| C5 -3 | | | | | | |
| C5-4 WW1 | | (5)voA'S | (0) | | | ++- |
| WW1 | J | 1 (2) Q MASGE | GRANG V | | | |
| | | | | | | |
| COMMENTS: | | | | | | |
| (HOL | | 111 | // | | | 4 <u>-</u> |
| Petinguished by Signature Company. Day Moon | Date: A Received Similar Com | yed by. (Signature) Cate pany Inne | Company | Time | Received by. (Signature) | Date: |
| Land? Inno | 145:00 | U/(/ //. | D7) | , unio | Сопірапу. | Time: |



C K Y incorporated Environmental Services

Date: 08/17/92

N9208-01

Dames & Moore 2101 Webster Street, #300 Oakland, CA 94612

Attn: Mr. Erik Skov

Subject: Laboratory Report

Project: BART-Castro Valley

Enclosed is the laboratory report for samples received on 08/04/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

| Method | No. of Analysis |
|--------------------|----------------------|
| M8015 (Gas/Diesel) | 5 Comp. Soil/1 Water |
| EPA 8020 | 5 Comp. Soil/1 Water |
| RCI | 5 Comp. Soil |
| STLC Lead | 5 Comp. Soil |
| TCLP BTEX | 5 Comp. Soil |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Danny Hoang

Laboratory Director

EPA METHOD - 8020 BTEX

| CLIENT: PROJECT: CONTROL NO: | Dames & Moor BART-CV N9208-01 | | | DATE MATRI | REC'D: ANALYZI X TYPE: | |
|------------------------------|-------------------------------------|-------------|----|------------------------------------|------------------------------|-------------------|
| SAMPLE ID: | CONTROL NO: | <u>Benz</u> | | ULTS (ug/ <u>Et Benz</u> | | SURRO RECOVERY |
| WW1 | N9208-01-21 | ND | ND | ND | ND | 82 |
| DETECTION LI | MIT | 1 | 1 | 1 | 1 | |

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

DATE REC'D: 08/04/92 CLIENT: Dames & Moore PROJECT: BART-CV DATE ANALYZED: 08/04/92 Water MATRIX: CONTROL NO: N9208-01 RESULTS DET. LIMIT % SURRO (mq/L) RECOVERY SAMPLE ID: CONTROL NO: (mg/L) N9208-01-21 ND 1.0 82 WW-1

EPA METHOD Mod. 8015 TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Dames & Moore DATE REC'D: 08/04/92
PROJECT: BART-CV DATE EXTRACTED:08/06/92
CONTROL NO: N9208-01 DATE ANALYZED: 08/06/92

MATRIX: Water

RESULTS H-C RANGE

SAMPLE ID: CONTROL NO: (mg/L)

WW1 N9208-01-21 ND N.A.

DETECTION LIMIT: 5 mg/L

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA 8020 MATRIX: Water

SAMPLE ID: Blank

| COMPOUND | SAMPLE RESULTS (ug/L) | AMOUNT (ug/L) | % REC. | DUP. % REC. | RPD |
|---------------|-----------------------------|---------------|--------|----------------|------------|
| Benzene | ND | 20 | 95 | 120 | 23 |
| Toluene | ND | 20 | 110 | 110 | 0 |
| Ethyl Benzene | ND | 20 | 110 | 90 | 20 |
| Xylene | ND | 40 | 103 | 98 | 5 |
| | | *======= | | ======= | _~~======= |

CLIENT:

Dames & Moore

PROJECT: CONTROL NO:

BART-CV N9208-01

METHOD

EPA M8015G

MATRIX:

Water

SAMPLE ID: Blank

SAMPLE AMOUNT DUP. COMPOUND RESULTS <u>SPIKED</u> % REC. % REC. <u>RPD</u> (mg/L) (mg/L)Gasoline ND 2 100 85 16

CLIENT: Dames & Moore

PROJECT: BART-CV CONTROL NO: N9208-01

METHOD EPA M8015D

MATRIX: Water

SAMPLE ID: N9208-01-21

SAMPLE AMOUNT DUP. COMPOUND % REC. % REC. <u>RPD</u> RESULTS SPIKED (mg/L) (mg/L) ND 500 101 106 5 Diesel

CLIENT NAME: ADDRESS:_ 210

PHONE NO.

SEND REPORT TO:

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

PALL DE LIST



to a manipulated University of Series

11 Caller Assura Sur ht 540 846-3488

To 510 846 1236

| SAMPLER NAME/SIGNATURE SETER DAV | 15/ Fer | Am | HUS. | | | | A | NALYSES HE GOIFTED | |
|-----------------------------------|-----------------------|---------------------------------|-------------|---------------------------------|-----------|-------|----------|---------------------------------------|-------------|
| SAMPLE NUMBER (4-) (4-2 | SAMPLING DATE/TIME | PRESER- CONT VATIVE SIZE / I | AINER SAMPI | SOIL OTH | | MS: 8 | 3080:606 | W W W W W W W W W W W W W W W W W W W | - ıı |
| C4-3 C4-4 | | 1) | { | | | | - | ╵ ┆┆ ┆╌┼ | |
| (5-1 | | 1/- | | } | - | | | | · · - - |
| C5 -3 C5 - 4 Ww 1 | | | | | | | | | |
| ww 1 | J | (5)vot | | | | | | | |
| | | | | | | | ++ | | |
| OMMENTS: | | | | | | | | | |
| HOLD Signature) | Daje 42 Ruces | yed by: (Signature) | Dear 1 | John T. A. | | | | - Long | |
| mpany. Ours! Moore | Time | pary (| Tune C | lelinguished by: (S company: | ignature) | Date: | | red by (Signature) | Date. |
| rage/Disposal of Samples Sa | 2.00 | -/(/ | | | j | Time | Comp. | any. | Time |



C K Y incorporated Analytical Laboratories

Date: 08/25/92 920851

Dames & Moore 2101 Webster St. # 300 Oakland CA 94612

Attn: Graeme Nyland

Subject: Laboratory Report

Project: Bart Castro Valley

Enclosed is the laboratory report for samples received on 08/18/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

| <u>Method</u> | No. of Analysis |
|---------------------|-----------------|
| EPA 335.2 (Cyanide) | 1 Water |
| EPA 9065 (Phenols) | 1 Water |
| EPA 3005/6010 | 1 Water |
| EPA 150.1 (pH) | 1 Water |

The results are summarized on seven pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Wasfi Attalla, Ph.D. Laboratory Director

EPA 335.2 CYANIDE

CLIENT: Dames & Moore DATE REC'D: 08/18/92
PROJECT: Bart Castro Valley DATE EXTRACTED: 08/20/92
CONTROL NO: 920851 DATE ANALYZED: 08/21/92
MATRIX: Soil

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/L) | DETECTION LIMIT (mg/L) |
|--------------|-------------------|----------------|------------------------|
| WT 1 | 920851 - 2 | ND | 0.02 |
| Method Blank | 920851 | ND | 0.02 |

EPA 9065 PHENOLS

| ======== | | ======: | ======= | | |
|----------|-------------------------------------|--------------|-----------------------------------|----------------------------------|---|
| CLIENT: | Dames & Moore Bart Castro Valley | DATE DATE | REC'D: EXTRACTED: ANALYZED: | 08/18/92 08/20/92 08/21/92 | ٠ |

| SAMPLE ID: | CONTROL NO: | RESULTS (mg/L) | DETECTION LIMIT (mg/L) |
|--------------|-------------|----------------|------------------------|
| WT 1 | 920851-1 | ND | 0.05 |
| Method Blank | 920851 | ND | 0.05 |

EPA 3005/6010/7000 TTLC METALS BY ICP/AAS

CLIENT: Dames & Moore DATE REC'D: 081/8/92
PROJECT: Bart Castro Valley DATE EXTRACTED: 08/19/92
SAMPLE ID: WT 1 DATE ANALYZED: 08/19/92
CONTROL NO: 920851-3 MATRIX TYPE: Water

| PARAMETERS | RESULTS (mg/L) | DETECTION LIMIT (mg/L) |
|------------------|----------------|------------------------|
| Arsenic | ND | 0.01 |
| Cadmium | ND | 0.01 |
| Chromium - Total | ИД | 0.01 |
| Copper | 0.01 | 0.01 |
| Lead | ND | 0.10 |
| Mercury | ND | 0.0002 |
| Nickel | 0.06 | 0.05 |
| Silver | ND | 0.01 |
| Zinc | 0.06 | 0.01 |
| | | |

EPA 3005/6010/7000 TTLC METALS BY ICP/AAS

DATE REC'D: 081/8/92 CLIENT: Dames & Moore PROJECT: Bart Castro Valley
BAMPLE ID: Method Blank DATE EXTRACTED: 08/19/92 DATE ANALYZED: 08/19/92 Bart Castro Valley CONTROL NO: 920851 MATRIX TYPE: Water _____

| PARAMETERS | RESULTS (mg/L) | DETECTION LIMIT (mg/L) |
|------------------|----------------|------------------------|
| Arsenic | ND | 0.01 |
| Cadmium | ND | 0.01 |
| Chromium - Total | ND | 0.01 |
| Copper | ND | 0.01 |
| Lead | ND | 0.10 |
| Mercury | ND | 0.0002 |
| Nickel | ND | 0.05 |
| Silver | ND | 0.01 |
| Zinc | 0.05 | 0.01 |
| | | |

EPA 150.1 pН

| CLIENT: PROJECT: CONTROL NO: | Dames & Moore Bart Castro Valley 920851 | DATE REC'D: DATE ANALYZED MATRIX: | 08/18/92 : 07/18/92 Water |
|------------------------------------|-----------------------------------------|-----------------------------------|---------------------------------|
| SAMPLE ID: | CONTROL NO: | RESULTS (pH Units) | DETECTION LIMIT |
| WT 1 | 920851-4 | 8.7 | 0.1 |

CLIENT:

Dames & Moore

PROJECT:

Bart Castro Valley

CONTROL NO:

920851

METHOD MATRIX: EPA 150.1

Water

SAMPLE ID:

920851-4

COMPOUND

SAMPLE RESULT

DUP. SAMPLE

RESULT (pH units) RPD %

(pH units) 8.7

8.7

0

METHOD

Нq

EPA 3005/6010

MATRIX:

Water

SAMPLE ID:

920851-3

| COMPOUND | SAMPLE <u>RESULTS</u> (mg/L) | AMOUNT SPIKED (mg/L) | % REC. | DUP. % REC. | RPD |
|-----------------------------------------------------|------------------------------------|------------------------------------------|---------------------------------------------|-------------------------------------------|------------------------------|
| Arsenic Cadmium Chromium Lead Silver Nickel Mercury | ND ND ND ND ND ND | 1.0 1.0 1.0 1.0 1.0 0.005 | 104 103 102 98 102 108 80 | 115 99 95 96 90 103 100 | 10 4 7 2 12 5 |

CLIENT: PROJECT:

Dames & Moore

Bart Castro Valley

CONTROL NO:

920851

METHOD MATRIX: EPA 9065 Water

SAMPLE ID:

920851-1

SAMPLE AMOUNT DUP. COMPOUND RESULTS SPIKED % REC. % REC. RPD (mg/L)(mg/L) Phenols ND 0.50 92 88

METHOD MATRIX:

EPA 335.2

Water

SAMPLE ID:

Method Blank

SAMPLE AMOUNT DUP. COMPOUND RESULTS SPIKED % REC. % REC. <u>RPD</u> (mg/L)(mg/L)Cyanide ND 90 90 0.20 0

920851 REQUEST FOR ANALYSIS

DATE: 8/17/9 2

PAGE OF _____ CHAIN OF CUSTODY RECORD. C K Y Incorporated Environmental Services 3942 Valley Avenue, Suite F. Pleasanton, CA 94566 PHONE NO. Tel: 510-846-3188 PROJECT NAME: BART CASTRO VALLE Fax: 510-846-1236 SEND REPORT TO: GRAEME NYLAND TURN AROUND TIME SAMPLER NAME/SIGNATURE ANALYSES REQUIRED NORMAL K RUSH $\dot{\Box}$ 809/0808 M8015 SAMPLE SAMPLING PRESER-CONTAINER SAMPLE DESCRIPTION NUMBER DATE/TIME VATIVE SIZE/TYPE WATER SOIL OTHER COMMENTS: SEE LIST OF METALS ON ATTACHED LIST Received by: (Signature) Date: Relinguished by: (Signature) Date: Received by: (Signature) Company: Time: Company: Time: Company: Time: Company:

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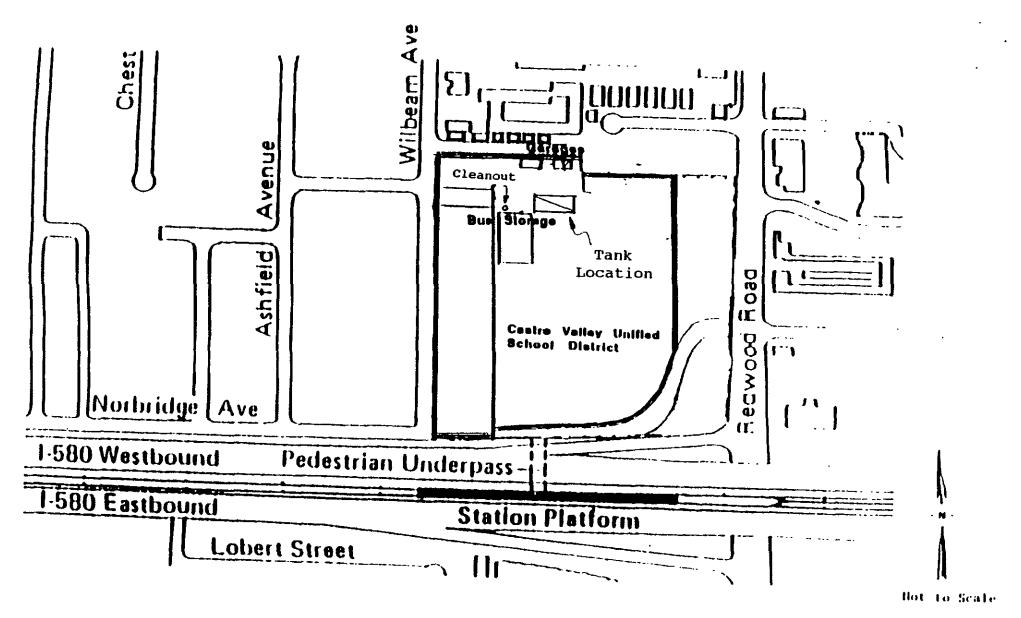
ORO LOMA SANITARY DISTRICT SPECIAL DISCHARGE PERMIT APPLICATION

| SECTION I: General Condition | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 1. Applicant Business Name: Bay Area Rapid Transit District | | | |
| | | | |
| 2. Applicant Address: 1330 Broadway, Suite 1800 | | | |
| City/Sate/Zip: 0akland, CA 94604-2688 | | | |
| | | | |
| 3. Name of Environmental/Engineering Firm Representing Applicant | | | |
| DAMES & MOORE | | | |
| 4. Environmental/Engineering Firm Address | | | |
| Street: 2101 Webster Street, Suite 300 | | | |
| City/State/Zip: 0akland, CA 94612 | | | |
| 5. Person to Contact About this Application | | | |
| Name <u>George Chiu</u> Title <u>Staff Engineer</u> Date: _August 13, 1992 | | | |
| realite | | | |
| 6. Person to Contact in case of Emergency | | | |
| NameErik Skov TitleProject Manager | | | |
| Day Phone 510-839-3600 Night Phone | | | |
| | | | |
| 7. Certification | | | |
| I certify that the information contained in this application is familiar to me and to the best of knowledge, such information is true, complete and accurate. | | | |
| August 13,.1992 | | | |
| Signature Date | | | |
| George Chiu | | | |
| Print Name | | | |

| SECTION 2 SITE INFORMATION | | | |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--|
| 1. | Name and A | Address of Remediation Site | |
| | Name | Former Castro Valley Unified School District Corporation Yard | |
| | | 21.000 Wilbeam Avenue, CA 94546 | |
| | City/State/Zi | p Castro Valley, CA 94546 | |
| 2. | Discuss the nature of the problem and state the reason(s) why there is no reasonable alternative but to discharge into the wastewater system. (Attach additional pages as necessary). | | |
| | Groundwater were found in the excavation pits during excavation. The water | | |
| | were pumped | out and stored in a baker tank. Water samples were taken and | |
| | | ydrocarbon content. As the results show that the concentration is | |
| | non-detectable, it is more cost effective to discharge the water to a near | | |
| | cleanout and subsequently treated by the waste water system. (This is a one | | |
| _ | time batch discharge, approximately 15,000 gallons) | | |
| J. | a) Provide a map showing the location of the site. b) Provide a diagram showing location of all monitoring wells, treatment unit and connection point to the District sewer system. N.A. c) Provide copies of laboratory analysis of pollutant concentration. | | |
| 4. | Wastewater | Flow Information N.A This is a one time batch discharge. | |
| | Peak Hourly | ischarge Flow Rate (gal/min) Flow Rate (gal/min) aily Flow Rate (gal/min) | |
| Estimated Duration of Discharge | | uration of Discharge | |

ORO LOMA SANITARY DISTRICT SPECIAL DISCHARGE PERMIT APPLICATION

| SE | CTION 3 TREATMENT SYSTEM INFORMATION |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) | Provide a narrative description of treatment system. Be sure to include the following information. (Use additional sheets if necessary) |
| | a) Describe how the groundwater will be treated; (best available technology is required. N.A. b) Describe the efficiency of the treatment unit. N.A. c) Describe where and how it will connect to the District's sewer system. d) Emergency procedures/security provisions. |
| | Groundwater from the excavation pits were pumped out and stored in a baker tank. |
| I | Water samples were tested for BTEX and for Total Petroleum Hydrocarbons (Both |
| | were non-detectable).Water from the baker tank will be pumped out and discharge |
| | into a nearby cleanout. |
| | NOTE: This is a one time batch discharge, approximate 15,000 gallon. |
| | |
| | |
| | |
| | |
| | |
| i | |
| | |
| | <u> </u> |
| 2) | Please attached a detailed drawing of the treatment system. N.A. |



LOCATION PLAN

FORMER CASTRO VALLEY UNIFIED SCHOOL DISTRICT CORPORATION YARD

PERMIT CONDITIONS PART 5

Special Discharge - Groundwater Discharges

3(B) SAMPLING REQUIREMENTS

Parameter

O.L.S.D. Limit

Metals

| Arsenic | 0.1 mg/L |
|----------------|-----------|
| Cadmium | 0.2 mg/L |
| Copper | 2.0 mg/l. |
| Lead | 1.0 mg/L |
| Mercury | 0.01 mg/L |
| Nickel | 1.0 mg/L |
| Silver | 0.2 mg/L |
| Total Chromium | 0.5 mg/l |
| Zinc | 3.0 mg/L |

Additional Testing

| Total Petroleum Hydrocarbons (EPA 8015) | 15 mg/L |
|--------------------------------------------|----------------|
| B.T.E.X. (EPA 8020) | Non-detectable |
| Phenois | 1.0 mg/L |
| Cyanide | 1.0 mg/L |

General Analysis

| pH | No lower than 5.5 units | | |
|------------------|-------------------------|--|--|
| Suspended Solids | N/A | | |
| COD | N/A | | |

Post-It" brand fax transmittal memo 7671 from pages Post-It" brand fax transmittal memo 7671 from C (+C) C0. C0. C1+C0. C0. C1+C0. C0. C1+C1. C0. C1+C1. C0. C1+C1. C1+C1. C1+C1. C1+C1. C2. C1+C1. C2. C3. C4. C4. C5. C5. C6. C6. C6. C7. C8. C9.
Revised Date 8/9/91

Page ___ of ___

CASTRO VALLEY SANITARY DISTRICT

DONALD H. STROOT, PRESIDENT

'AMES S. MARTIN, SECRETARY
THUR L. VARGAS
ANTHONY MORSILLI
JAMES A. LAYTON

21040 MARSHALL STREET • CASTRO VALLEY, CALIFORNIA 94546-6098 • TELEPHONE (510) 537-0757 FAX (510) 537-1312

MARY E. FREDETTE, DISTRICT MANAGER

September 1, 1992

Mr. George Chiu Dames & Moore 2101 Webster Street Suite 300 Oakland, CA 94612

Subject:

Special Discharge Permit

Castro Valley Unified School District

Corporation Yard 21000 Wilbeam Avenue Castro Valley, CA

Dear Mr. Chiu:

This will advise that this letter will be the permit for the discharge of 15,000 gallons of water from a portable holding tank at the Castro Valley Unified School District Corporation Yard at 21000 Wilbeam Avenue, Castro Valley, CA, into the sewer system.

This permit will be valid on receipt of the following:

Inspection

\$200.00

Treatment of 15,000 Gallons

31.12

Total

\$231.12

Very truly yours,

DELMERA. HERRERA

District Inspector

DJH:eg

specdis2.ltr



stems ™ NON-HAZARDOUS SPECIAL WASTE MANIFEST

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|------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|-------------------------------------------------------------|
| or NameB | A'R'T | | Generating Loca | tion BART | | |
| | 330 Broadway. Suit | | | 1000 Wilbeam A | ive. | |
| | akland; CA-94612 | | | stro Valley, | CA : | |
| Phone No. 5 1 0 BFI Waste Code C | A 4 6 4 6 1 Description of Waste | 9 0 8 9 2 | | 9 6 Un | Containers No. Type | Type D - Drum |
| NO | N HAZARDOUS SOIL | | 0 0 | 0 0 1 8 3 | | C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other |
| state law, is not a | t the above named mater hazardous waste as defi aged, and is in proper co | ned by 40 CFR Pari | 261 or any app | licable state law, h | nas been properly | applicable described, |
| GARI C. Generator Authorized Agent N | JENKEN S | gnature A | fms > | O 9 1 Shipm | nent Date | |
| | | STANS | ORTER SE | | | |
| Truck No. | 65 | · · · · · · · · · · · · · · · · · · · | Phone No. | 510-634-68 | 50 | : · · · · · · · · · · · · · · · · · · · |
| Transporter Name | illard Trucking. I | .8/2 | Driver Name (Priver Name (Prive | • • • | 439573 | MARO |
| - Add(633 | yron. California 9 | • | Vehicle Certification | | | |
| I hereby certify that the at the generator site list | e above named material vated above. | vas picked up | I hereby certify | that the above name destination lists | | delivered with- |
| | | S ADESTI | VATION 😘 | | | |
| Site NameB | .F.I. Vasco Road I | andfill | Phone | No. 5 1 0 | 4 4 7 | 0 4 9 1 |
| | 001 North Vasco Ro | l Livermore, | Ca. 94550 | | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 101 000 |
| I hereby certify that the | e above named material l | C C | nd to the best of | my knowledge the | | and accurate. |
| Name of Authorized Agent | | Signature |) | PASS CODE | | BF1260-720 |
| | , | TRANSPORTER | RETAIN | | | |

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NON-HAZARDOUS SPECIAL WASTE MANIFEST

| No. To | 5 A R T | | Generating LocationBART |
|----------------------------------------------------|----------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ganerator Name — | | ire 1702 | Address21000 Wilbeam Ave. |
| A35'055 | Onkland. CA 94612 | ? | Castro Valley, CA |
| Prione No. 5 12 BFI Waste Code © | | | Phone No. |
| <u>-</u> | ION MADAKONUS SOLD | | B - Bag T - Truck P - Pounds Y · Yards O - Other |
| ciala lea, is not | a hazi idous waste as c | isfined by 40 CFR Pa | tin free liquid as defined by 40 CFR Part 260.10 or any applicable art 261 or any applicable state law, has been properly described, ortation according to applicable regulations. |
| (-2,-5,- / | Name | Miller C. | - Marke 091119Z |
| Ganerator Avinor dael Agan Tri income | name Trame | Signature | Shipment Date |
| | | | |
| Truok No. <u>Mirasi</u> Truok No. <u>Mirasi</u> | <u> </u> | | 510-634-6350 Phone No. |
| Transporter Name | uilla (Tracking) | 14.0. | Driver Name (Print) JIM BURNETT |
| Acaress | . 1 | 210/2 | Vehicle License No./State 3774359 |
| , | or continuents | 04544 | Vehicle Certification |
| I hereby bertify that t at the generator alte | is kooke named materia voted above. |) was picked up | I hereby certify that the above named material was delivered without incident to the destination listed below. |
| 1/2/05 1/2/2/ Strigt 8.gradus | 2000 | 9 119 2 Shipment Date | Driver Signature Dungspr . 091192 |
| | | (3)=(5) | NATION STATE OF THE PARTY OF TH |
| O .5 .Vas | D.F.E. Yaseo Road | | Phone No. 5 1 0 4 7 0 4 9 1 |
| Address | 4001 Morth Vasco F | .c., Livermore, | Ca. 94350 |
| | he above named materia | i has been accepted a | and to the best of my knowledge the foregoing is true and accurate. |
| I hereby certify that t | | | 11/60 1000 8 2820 |

10 ...



NON-HAZARDOUS SPECIAL WASTE MANIFEST

| A GENE | RATOR |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Generator Name BART | Generating Location BART |
| 1330 Broadway Suite 1702 | Address21000 Wilbeam Ave. |
| Oakland, CA 94612 | Castro Valley, CA |
| Phone No. 5 1 0 — 4 6 4 6 1 9 2 | Phone No. |
| BFI Waste Code C A 4 0 5 0 9 0 8 9 2 Description of Waste | |
| NON HAZARDOUS SOIL | O O O 1 8 Y O T B - Bag |
| | T - Truck P - Pounds Y - Yards |
| | O - Other |
| I hereby certify that the above named material does not contain state law, is not a hazardous waste as defined by 40 CFR Part classified and packaged, and is in proper condition for transporta | 261 of any applicable state law has been properly described |
| GARY C. JENSEN Signature Senerator Authorized Agent Name Signature | Shipment Date |
| VIII A CONTROL OF THE STATE OF | 7 |
| Truck No. 11-12 Lupar Hrusking | 510-634-6850 Phone No |
| Fransporter Name Dillard Trucking. Inc. | Driver Name (Print) Curtis O Collins |
| Address P. O. Eox 218 | Vehicle License No./State |
| Byron, California 94544 | Vehicle Certification |
| hereby certify that the above named material was picked up at the generator site listed above. | I hereby certify that the above named material was delivered without incident to the destination listed below. |
| river, Signature Shipment Date | Lante O Polle 0 9 11 92 |
| Supplient Date OF SHIT | Driver Signature Delivery Date |
| | Allon |
| ite Name B.F.I. Vasco Road Landfill 4001 North Vasco Rd., Livermore, C | Phone No. 5 1 0 4 4 7 d 4 9 1 |
| ddress | a. 94550 |
| hereby certify that the above named material has been accepted an | d to the best of my knowledge the foregoing is true and accurate. |
| · . | MAY DAVE |
| tme of Authorized Agent Signature | Receipt Date |
| | PASS CODE |
| '86 | BFI260-720 |

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NON-HAZARDOUS SPECIAL WASTE MANIFEST

| | | GENE | RATOR | | | | |
|---------------------------------------|---------------------------------------------------------------------------------------|----------------------|------------------|--------------------|--------------------------|------------------------|---------------------------------------------------|
| Generator Name | BART | | Generating | Location B A | RT | · · | - |
| Address | 1330 Broadway, S | uite 1702 | Addross ' | 21000 Will | Deam Ave | | • |
| | Oakland. CA 9461 | 2 | | Castro Val | • | | •: |
| Phone No. 5 | 1 0 - 4 6 4 6 | 1 9 2 | Phone No. | | | | |
| BFI Waste Code | C A 4 0 5 Description of W | | 2 4 3 | 5 9 6 Quantity | Units | Containers No. Type | Type D - Drum |
| | NON HAZARDOUS SOI | L | | 0 0 0 1 | 8 Y | 0. / T | C - Carton B - Bag T - Truck P - Pounds Y - Yards |
| state law, is | ify that the above named m not a hazardous waste as d packaged, and is in prope | defined by 40 CFR Pa | rt 261 or any | applicable state | law, has | been properly | / applicable / described, |
| CARA (| C JEWSEN | A the | HARR | 0 | 9 11 | 9 2 | |
| Generator Authorized A | Agent Name | .Signature | // LOINEL | | Shipment I | | |
| Truck No. | 5 | | Phone No. | | 4-6850 | | |
| Transporter Name | Zillard Trucking | | Driver Name | e (Print). | ZV/ | 1/050 | 4554 |
| Address | P. O. Bon 218 | 213/2 | Vehicle Lice | ense No./State | 7 X/ | | |
| | Byron, California | a 94544 | . Vehicle Cer | **** | 300 | 3-1/ | |
| I hereby certify that the generator s | nat the above named materi site listed above. | al was picked up. | I hereby cer | to the destination | ve named on listed be | material was delow. | delivered with. |
| Driver Signature | McClyon E | Shipment Date | Oriver Signature | ME | Justie | , 07/ | very Date |
| | | ÷244.00°PDEST | NAMOKE S | | | | |
| Site Name | B.F.I. Vasco Road | | | one No. 5 | 1 | 4 4 7 | 0 4 9 1 |
| Address | 4001 North Vasco | Rd., Livermore, | Ca. 94550 | | * | | • |
| | nat the above named materi | | and to the bes | t of any knowledg | ge the fore | going is true | and accurate. |
| Name of Authorized Ag | ent | Signature | | | $-(-)^{7}$ | ✓ Rec | eiot Date |
| | | | | PASS COD | F | | |
| 10/66 | | | | 17,00 000 | | | BF(260-720 |

√aste Systems™

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| | CEVE CONTRACTOR OF THE | RATOR |
|-------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| rator Name | e BART | Generating Location BART |
| dress | 1330 Broadway. Suite 1702 | Address 21000 Wilbeam Ave. |
| / Juless | Oakland. CA 94612 | Castro Valley, CA |
| Phone No. 5 | 1 0 -4 6 4 6 1 9 2 | Phone No. |
| 3FI Waste Code | e C A 4 0 5 0 9 0 8 9 2 Description of Waste | Quantity Units No. Type D - Drum |
| | NON HAZARBOUS SOIL | Quantity Units No. Type C - Carton B - Bag T - Truck P - Pounds Y - Yards |
| | | O - Other |
| state law, is | | n free liquid as defined by 40 CFR Part 260.10 or any applicable rt 261 or any applicable state law, has been properly described, tation according to applicable regulations. |
| G-ARY Generator Authorized | Agent Name Signature | 91192 Snipment Date |
| | | POINTED RESPONSE TO THE PROPERTY OF THE PROPER |
| Fruck No | 39 | 510-634-6850 Phone No |
| ransporter Na | Dillard Trucking, Inc. | Driver Name (Print) J.M. FERREIRA |
| .ddress | P. O. Box 218 | Vehicle License No./State 4C0 8284 |
| | Byron, California 94544 | Vehicle Certification 300 810 |
| | that the above named material was picked up | I hereby certify that the above named material was delivered with out incident to the destination listed below. |
| Oriver Signature | 1 M Terresser 09/1/92 Shipment Date | Dryver Signature Delivery Date |
| | DEST | MATION |
| Site Name | B.F.I. Vesco Road Landfill | Phone No. 3 1 0 4 4 7 0 4 9 : |
| Address | 4001 North Vasco Rd., Livermore, | Ua, 9455U |
| hereby.certify | that the above named material has been accepted a | and to the best of my knowledge the foregoing is true and accurate. |
| Name of Authorized | Agent Signature | Receipt Date |
| | | |
| - | _ | PASS CODE |

stems™

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| GENERATOR | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| BART Genera | ting Location BART |
| 1330 Broadway. Suite 1702 Addres | s 21000 Wilbeam Ave. |
| oakland. CA 94612 | Castro Valley, CA |
| 5 1 0 -4 6 4 6 1 9 2 Phone | |
| Phone No. | |
| BFI Waste Code C A 4 0 5 0 9 0 8 9 2 4 Description of Waste | Quantity Units No. Type D - Drum |
| | 0 0 0 1 8 Y 0 / T C - Carton B - Bag |
| NON HAZARDOUS SOIL | T - Truck |
| | P - Pounds Y - Yards |
| | O - Other |
| I hereby certify that the above named material does not contain free lice state law, is not a hazardous waste as defined by 40 CFR Part 261 of classified and packaged, and is in proper condition for transportation acceptable. | any applicable state law, has been properly described, |
| GARN JENSON Signature Signature | Shipment Date |
| Property of the second | |
| W31 | 510-634-6850 No |
| | Name (Print) JIM BURNETT |
| | e License No./State 3X 74 359 |
| Address P. 0. Box 218 Vehicle Pyron. California 94544 | e License No./State 3/1 / 7 3 C |
| Vehic | e Certification |
| I hereby certify that the above named material was picked up at the generator site listed above. I here out in | by certify that the above named material was delivered with- cident to the destination listed below. |
| Driver Signature Shipment Date Driver & | Jan Rouse 09/1/92 Igrature Delivery Date |
| DESTINATION OF THE PROPERTY OF | |
| Site Name B.F.I. Vasco Road Landfill | Phone No. 5 1 0— 4 4 7 0 4 9 1 |
| AddressA001 Morth Vasco Rd., Livermore, Ca. 9 | 1550 |
| I hereby certify that the above named material has been accepted and to the | the best of my/knowledge the foregoing is true and accurate. |
| | 14 9119 |
| Name of Authorized Agent Signature | Aécorph Date |
| | PASS CODE |
| • | , OFIDER 70A |

№ 907357

| | rems Non- | IAZARD | OUS SI | PECIAL V | VASTE I | VANIF | EST |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|--------------------------------------|---------------|------------------------------|----------------------------------------------------------------|
| | TRIES | | RATOR | | | | |
| | BART | | 744 1 | ocation B A R | T | | |
| | 1330 Broadway, Suite 1 | 702 | Address | 21000 Wilbe | , | | , <u>, , , , , , , , , , , , , , , , , , </u> |
| | Oakland. CA 94612 | 1. 19 2. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Address | Castro Vall | | | |
| 5 1 | 0 4 6 4 6 1 9 | 2 | Phone No. | | 2000年表 | | |
| Waste Code | Description of Waste | 0 8 9 2 | 4 3 | 5 9 6 Quantity | | Type | Type Drum |
| | NON HAZARDOUS SOIL | | | 0 0 1 8 | | 2 T B T P Y | - Carton - Bag - Truck - Pounds - Yards - Other |
| state law, is not | that the above named material d a hazardous waste as defined ackaged, and is in proper condit | by 40, CER Pari | t 261 or any a | applicable state I | aw, has been | 0 or any app properly des | licable cribed, |
| GARI Generator Authorized Ager | C JENSEN Signatur | Jary-C | flux | 09 | Shipment Date | 3 | |
| | | SATHANS | ORTER 🥳 | | | | |
| Truck No. | <u></u> | <u> </u> | , Phone No | 510-634 | -6850 | | |
| Transporter Name _ | Dillard Trucking, Inc. | <u> </u> | Driver Name | (Print) | Ur LE | UNARO | · · · · · · · · · · · · · · · · · · · |
| Address | P. O. Box 218 | | Vehicle Licer | se No./State | 43957 | 7 | |
| | Byron. California 94544 | | Vehicle Certi | | | | , |
| I hereby certify that at the generator site | the above named material was p listed above. | icked up | | ify that the above o the destination | | al was delive | ered with- |
| Driver Signature | Ship | ment Date | Driver Signature | | 10 | 9 // Delivery Da | 92 |
| | | OESTIN | <u></u> | | | | |
| Site Name | B.F.I. Vasco Road Landf | 111 | Pho | ne No. 5 1 | d 4 4 | 7 0 4 | 9 1 |
| Address | 4001 North Vasco Rd., I | ivermore. C | | ile 140. | | | |
| | the above named material has be | en accepted ar | nd to the best | of my knowledge | the foregoing | is true and a | accuraté. |
| 4. | | | | /los | \leq | 9/1 | 7 |
| Name of Authorized Agent | | Signature | | | | Receipt Da | <u>re</u> |
| | | . , | | PASS CODE | | .• | · · · |

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BFI260-720

aste Systems ••

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| | GEN | RATOR | | |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|
| Generator Name | BART | Generating Loc | ation BART | |
| Address | 1830 Broadway. Suite 1702 | Address 2 | 1000 Wilbeam Ave. | |
| | Oakland, CA 94612 | | astro Valley, CA | |
| Phone No. 5 BFI Waste Code | 1 0 — 4 6 4 6 1 9 2 C A 4 0 5 0 9 0 8 9 2 | Phone No. | 96 0 | ontainers Type |
| | Description of Waste NON HAZARDOUS SOIL | 0 | Quantity Units NO 0 1 8 Y 0 | Type Type T C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other |
| state law, is classified and | ify that the above named material does not conta not a hazardous waste as defined by 40 CFR Pad packaged, and is in proper condition for transport | rt 261 or any app | olicable state law, has bee | 0.10 or any applicable in properly described, |
| Generator Authorized A | Agent Name Signature | / 120):183:183:65 | Shipment Date | |
| Truck No. | B. Lupan Trucking | Phone No. 5/ | 1)510-631-6850-870-870-850-850-850-850-850-850-850-850-850-85 | |
| Address | P. O. Box 218 Byron, California 94544 | | No./State | |
| I hereby certify the at the generator s | at the above named material was picked up site listed/above. Shipment Date | I hereby certify out incident to the private of the | that the above named man | terial was delivered with- |
| | MANAGE STATES | NATIONA | | |
| Site Name | B.F.I. Vasco Road Landfill 4001 North Vasco Rd., Livermore, | Phone | No. 5 1 0 — 4 | 4 7 0 4 9 1 |
| I hereby certify th | at the above named material has been accepted a | and to the best of | my knowledge the foregoi | ng is true and accurate. |
| Name of Authorized Ag | ent Signature | . // | IE PASS CODE | Receipt Date |
| 10/86 | | | $\mathcal{F} = \mathcal{F}$ | . BFI260-720 |

Stems **
FERRIS INDUSTRIES

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| | (भूग) व | ATOR |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Generator Name | BART | Generating Location BART |
| Address | 1330 Eroadway. Suite 1702 | Address21000 Wilbeam Ave. |
| | Oakland. CA 94812 | Castro Valley, CA |
| Phone No. 5 1 | 0 -4 6 4 6 1 9 2 | Phone No. |
| BFI Waste Code C | A 4 0 5 0 9 0 8 9 2 Description of Waste | Quantity Units No. Type D - Drum C - Carton |
| | KON HAZARDOUS SOIL | 0 0 0 1 8 Y 0 / T B - Bag T - Truck P - Pounds Y - Yards O - Other |
| state law, is not classified and p | t a hazardous waste as defined by 40 CFR Par ackaged, and is in proper condition for transport | free liquid as defined by 40 CFR Part 260.10 or any applicable of 261 or any applicable state law, has been properly described, sation according to applicable regulations. |
| | | PORTIER |
| Truck No. | | 510-634-6850 |
| Transporter Name _ | 045.10 | Driver Name (Print) ARRY 110 3015192 |
| Address | P. O. Box 218 | Vehicle License No./State |
| , , , , , , , , , , , , , , , , , , , | Byron. California 94544 | Vehicle Certification |
| I hereby certify that at the generator site | | I hereby certify that the above named material was delivered without incident to the destination listed below. |
| Duver Signature | Shipment Date | Driver Signature Delivery Date |
| | ग्राम् | MAYLON'S |
| Site Name | B.F.I. Vasco Road Landfill | Phone No. 5 1 0 4 4 7 0 4 9 1 |
| Address | 4001 North Vasco Rd., Livermore. | Ca. 94550 |
| I hereby certify that | the above named material has been accepted a | and to the best of my knowledge the foregoing is true and accurate. |
| Name of Authorized Agen | . Signature | Receipt Date |
| · · · · · · · · · · · · · · · · · · · | · · | |
| 10/36 | • | PASS CODEBFi260-720 |



NON-HAZARDOUS SPECIAL WASTE MANIFEST

| GENE | RATOR |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Generator Name BART | Generating Location B A-R T |
| Address 1330 Broadway. Suite 1702 | Address 21000 Wilbeam Ave. |
| Oakland. CA 94612 | Castro Valley, CA |
| Phone No. 5 1 0 -4 6 4 6 1 9 2 | Phone No. |
| BFI Waste Code C A 4 0 5 0 9 0 8 9 2 Description of Waste | 4 3 5 9 6 Containers Type D D Drum |
| NON HAZARDOUS SOIL | 0 0 0 1 8 Y 0 T B Bag T - Truck P - Pounds Y - Yards O - Other |
| I hereby certify that the above named material does not contain state law, is not a hazardous waste as defined by 40 CFR Par classified and packaged, and is in proper condition for transport | |
| GARN C JEINSIN AM (: Generator Authorized Agent Name Signature // | Shipment Date |
| | POBILER. |
| Truck No. 3/3/ | Phone No. 510-634-6850 |
| Transporter Name Dillard Trucking. Inc. 218/2 | Oriver Name (Print) JIM BURNETT Vehicle License No./State 3X74359 |
| Byron, California 94544 | Vehicle License No./State Vehicle Certification |
| I hereby certify that the above named material was picked up at the generator site listed above. | I hereby certify that the above named material was delivered without incident to the destination listed below. |
| priver Signature Sunner Date Shipment Date | Driver Signature Delivery Date |
| TREE CONTRACTOR OF THE PROPERTY OF THE PROPERT | NATION: |
| Site Name B.F.I. Vasco Road Landfill | 7 Phone No. 5 1 0 4 4 7 0 4 9 1 |
| Address 4001 North Vasco Rd., Livermore, C | a. 94550 |
| I hereby certify that the above named material has been accepted a | nd to the best of my knowledge the foregoing is true and accurate. |
| Name of Authorized Agent Signature | Receipt Date |
| Signature Signature | T 1 4 4 4 7 7 7 8 8 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| | PASS CODE |
| 10/86 | BFI260-720 |

| NON-HAZARD | OUS SPECIAL WASTE MANIFEST |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENER | RATOR |
| BART | Generating Location B A R-T |
| | Address 21000 Wilbeam Ave. |
| Oakland, CA 94612 | Castro Valley, CA |
| 5 1 0 4 6 4 6 1 9 2 | Phone No. |
| BEI Waste Code C A 4 0 5 0 9 0 8 9 2 | .4 .3 5 9 6 Containers Type |
| Description of Waste | Quantity Units No. Type D Drum O 0 0 1 8 Y 0 2 T C - Carton |
| NON HAZARDOUS SOIL | B - Bag |
| | P - Pounds Y - Yards |
| | O - Other |
| hereby certify that the above named material does not contain state law, is not a hazardous waste as defined by 40 CFR Par classified and packaged, and is in proper condition for transport | t-261 or any applicable state law, has been properly described, |
| GARY JENSEN HALL C | linse 0911192 |
| Generator Authorized Agent Name Signature . | Shipment Date |
| THE REPORT OF THE PARTY OF THE | ORTER 3*7% |
| | The state of the s |
| Truck No. 65 | 510-634-6850 Phone No. |
| Dillard Trucking, Inc. Transporter Name | |
| Dillard Trucking, Inc. | Phone No |
| Transporter Name Dillard Trucking. Inc. 218/2 | Phone No. |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. O. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up | Phone No. Driver Name (Print) STEUE LEUNARD Vehicle License No./State 39773 Vehicle Certification I hereby certify that the above named material was delivered with- |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. O. Box 218 Byron, California 94544 | Phone No. Driver Name (Print) STEUE LEUNARD Vehicle License No /State 737573 Vehicle Certification |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. O. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. | Phone No. Driver Name (Print) STEUE LEUNARY) Vehicle License No./State 39573 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. G. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. Driver Signature Shipment Date | Phone No. Driver Name (Print) STEUE LEUNARD Vehicle License No./State 39573 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. G. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. Driver Signature Shipment Date | Phone No. Driver Name (Print) STEUE LEUNARD Vehicle License No./State 39573 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 Address P. G. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. Driver Signature B.F.I. Vasco Road Landfill | Phone No. Driver Name (Print) Vehicle License No./State 37173 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Phone No. 5 10 4 4 7 0 4 9 1 |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 Address P. G. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. Driver Signature B. F. J. Vasco, Road, Landfill | Phone No. Driver Name (Print) Vehicle License No./State 37173 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Phone No. 5 10 4 4 7 0 4 9 1 |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. G. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. 7 / 9 2 Driver Signature Shipment Date B.F.I. Vasco Road Landfill 4001 North Vasco Rd., Livermore, | Phone No. Driver Name (Print) STEUE LEUNARY) Vehicle License No /State 395773 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date Phone No. 5 1 0 4 9 1 Ca. 94550 |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. O. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. 7 / 9 2 Driver Signature Shipment Date DESTI Site Name B.F.I. Vasco Road Landfill 4001 North Vasco Rd., Livermore, | Phone No. Driver Name (Print) STEUE LEUNARY) Vehicle License No /State 395773 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date Phone No. 5 1 0 4 9 1 Ca. 94550 |
| Transporter Name Dillard Trucking. Inc. Joh # 218/2 P. O. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. 7 / 9 2 Driver Signature Shipment Date DESTI Site Name B.F.I. Vasco Road Landfill 4001 North Vasco Rd., Livermore, | Phone No. Driver Name (Print) STEUE LEUNARY) Vehicle License No /State 395773 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date Phone No. 5 1 0 4 9 1 Ca. 94550 |
| Transporter Name Dillard Trucking Inc. Joh # 218/2 Address P. G. Box 218 Byron, California 94544 I hereby certify that the above named material was picked up at the generator site listed above. Driver Signature Shipment Date | Phone No. Driver Name (Print) Vehicle License No./State 7777 Vehicle Certification I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Phone No. 5 1 0 4 7 0 4 9 1 Ca. 94550 and to the best of my knowledge the foregoing is true and accurate. |

aste systems **

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| | | CENE | RATOR | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|-----------------------------------------|---------------------------------------|
| Generator Name | BART | · · · · · · · · · · · · · · · · · · · | Generating | Location BART | • | |
| Address | 1330 Broadway. Sui | te 1702 | Address | 21000 Wilbeam A | ive. | . [|
| Address | Oakland, CA 94612 | | | Castro Valley, | CA - | i de |
| Phone No. 5 1 | 0 -4 6 4 6 1 | 9 2 | Phone No. | | | |
| BFI Waste Code | C A 4 0 5 0 Description of Was | <u> </u> | | | Containers | Type D - Drum C - Carton |
| | NON HAZARDOUS SOIL | | | 0 0 0 1 8 | | B - Bag/ T - Truck · P - Pounds |
| | <u> </u> | | | | | Y - Yards O - Other |
| state law, is no | rithat the above named main of a hazardous waste as de backaged, and is in proper | efined,by 40 CFR Pa | ırt 261 or any | applicable state law, | nas been properly | applicable described, |
| Generator Authorized Ag | ent Name | Signature | MAS | 0 9 Shipi | / | |
| | | TAY THE | रिकारी किल् | | | |
| Truck No. | B. Guner T | surling | . Phone No. | | | • |
| Transporter Name | Dillard Trucking. | Inc. | | ne (Print) Curtie | | |
| Address | P. O. Box 218 | 18/2 | _ Vehicle Lic | ense No./State | P8655 | <u> </u> |
| | Byron, California | 94544 | _ Vehicle Ce | | | |
| I hereby certify the at the generator si | it the above named materia te listed above. | I was picked up | , I hereby ce out incider | ertify that the above na it to the destination list | med material was e ed below. | delivered with- |
| Driver Signature | Olallin @ | 9 / / 9 2 Shipment Date | Driver Signatu | to Olofle | 0 9 / | very Date |
| | | o de la composición della comp | INATION [®] | | | |
| Site Name | B.F.I. Vasco Road | Landfill | P | hone No. 5 1 0 | _ 4 4 7 | 6 4 9 1 |
| . Address | 4001 North Vasco F | Rd., Livermore, | Ca. 94550 | | | · · · · · · · · · · · · · · · · · · · |
| . I hereby certify the | at the above named materia | I has been accepted | and to the be | est of my knowledge th | e foregoing is true | and accurate. |
| ing and the second of the seco | | · · | | 11/19 | | |
| Name of Authorized Age | ent | Signature | | | , He | ceipt Date |
| | | | | II PASS CODE | * | BFI260-72 |
| 10/86 | | | | | # 4 · · · · · · · · · · · · · · · · · · | |

TRANSPORTER RETAIN ...

systems ™

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| - AGENE | 7/.TOTA |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Renerator Name RART | Generating Location BACT |
| Carriers 1500 Branding Sur- 1702 | Address 2:1000 WILEGAM AVE |
| OAMENO, CA 94617- | CASTRO VAILEY CA |
| Phone No. 510-4646192 | Phone No. |
| BEI Waste Code C /A 4 5 5 0 9 7 8 9 Z | Quantity Units No. Type D-Drum |
| Non Harrienous Soil | C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other |
| I hereby certify that the above named material does not contai state law, is not a hazardous waste as defined by 40 CFR Pa classified and packaged, and is in proper condition for transpor | n free liquid as defined by 40 CFR Part 260.10 or any applicable art 261 or any applicable state law, has been properly described, tation according to applicable regulations. |
| Generator Authorized Agent Name Signature | O 9 1 9 Z Shipment Date |
| General Authorized Agon | roman de la companya |
| Truck No. : | Phone No. 510 - 634 - 6850 |
| Transporter Name This SES TENTING INC | Driver Name (Pript) |
| Address V. 1995 VIII | Vehicle License No./State 2/6/336 |
| BYRON CA 94544 | Vehicle Certification |
| I hereby certify that the above named material was picked up at the senerator site listed above. | I hereby certify that the above named material was delivered without incident to the destination listed below. |
| Driver Signature Shipment Date | Driver Signature / Delivery Date - |
| DES | INVauON. |
| Site Name BET VASCO ROAD LANDELL | • • |
| Address 4001 NORTH VASCO RD., L | IVERMORE, CA 94550 |
| I hereby certify that the above named material has been accepted | and to the best of my knowledge the foregoing is true and accurate. |
| Name of Authorized Agent Signature | Receipt Date |
| | PASS CODE |
| 10/86 | BF1260-72 |



NON-HAZARDOUS SPECIAL WASTE MANIFEST

| Trans | MOUSTRIES | RATOR (* 15 mars) in the state of the state |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| erator Name | BART | Generating Location BART |
| | 1330 Broadway. Suite 1702 | Address 21000 Wilbeam Ave. |
| Address | Oakland, CA 94612 | Castro Valley, CA |
| Phone No. 5 1 | - 4 6 A C 1 9 2 | Phone No. |
| BFI Waste Code | C A 4 0 5 0 9 0 8 9 2 Description of Waste | Quantity Units No. Type D-Drum |
| | NON HAZARDOUS SOIL | 0 0 0 1 8 Y 0 / T C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other |
| state law, is no | ot a hazardous waste as defined by 40 CFR Pa packaged, and is in proper condition for transpor | n free liquid as defined by 40 CFR Part 260.10 or any applicable rt 261 or any applicable state law, has been properly described, tation according to applicable regulations. |
| Generalor Authorized Ag | ent Name Signature | Shipment Date |
| W. Salar Co. P. | THE PARTY OF THE P | POPEREL CONTRACTOR CON |
| Truck No. | 3 190 | 510-634-6850 Phone No |
| Transporter Name | | Driver Name (Print) |
| Address | P. O. Box 218 | Vehicle License No./State 57/135 |
| | Byron. California 94544 | Vehicle Certification |
| I hereby certify that at the generator sit | et the above named material was picked up te listed above. | I hereby certify that the above named material was delivered without incident to the destination listed below. |
| Duver Signature | Shipment Date | Driver Signaphire Delivery Date |
| | Verdesti | MATON A |
| Site Name | B.P.I. Vasco Road Landfill | Phone No. 5 1 0 4 4 7 0 4 9 1 |
| Address | 4001 North Vasco Rd., Livermore. | Ca. 94550 |
| I hereby certify tha | at the above named material has been accepted a | and to the best of my knowledge the foregoing is true and accurate. |
| Name of Authorized Age | ent Signature | MIG S/192 Receipt Date |
| | | |
| 10/56 | | PASS CODEBFI260-720 |

∕aste ystems ™

No. 906094

NON-HAZARDOUS SPECIAL WASTE MANIFEST

| / / | | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ator Name | BART | Generating Location BART |
| 1055 | 1330 Broadway. Suite 1702 | _ Address21000 Wilbeam Ave. |
| | Oakland. CA 94612 | Castro Valley, CA |
| Phone No. 5 1 BFI Waste Code | 0 -4 6 4 6 1 9 2 C A 4 0 5 0 9 0 3 9 Description of Waste | Phone No |
| - | NON HAZARDOUS SOIL | 0 0 1 8 Y 0 T C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other |
| state law, is n | packaged, and is in proper condition for transpo | in free liquid as defined by 40 CFR Part 260.10 or any applicable art 261 or any applicable state law, has been properly described, rtation according to applicable regulations. : |
| | | SPORTER! |
| Truck No | 39 | 510-634-6850 Phone No |
| | | 1. 6. |
| Transporter Name | 218/2 | Driver Name (Print) |
| | P. O. Box 218 | Vehicle License No./State 4CO 8Z84 |
| | 218./2 | • |
| Address | P. O. Box 218 Byron, California 94544 at the above named material was picked up te listed above. Myn. 89 9 1 1 9 2 | Vehicle License No./State 4CO 9784 Vehicle Certification 300 810 I hereby certify that the above named material was delivered without incident to the destination listed below. |
| I hereby certify the at the generator si | P. O. Box 218 Byron, California 94544 at the above named material was picked up te listed above. Man | Vehicle License No./State 4CO 8Z84 Vehicle Certification 300 810 I hereby certify that the above named material was delivered with- |
| I hereby certify the at the generator si | P. O. Box 218 Byron, California 94544 at the above named material was picked up te listed above. Man | Vehicle License No./State 4CO 9784 Vehicle Certification 300 810 I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date |
| Address I hereby certify the at the generator si Driver Signature Site Name | P. O. Box 218 Byron, California 94544 at the above named material was picked up to listed above. O 9 1 9 2 Shipment Date | Vehicle License No./State 4CO 9784 Vehicle Certification 300 910 I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date Phone No. 5 1 q 4 4 7 0 4 9 1 |
| Address I hereby certify the at the generator single priver Signature Site Name Address | P. O. Box 218 Byron. California 94544 At the above named material was picked up te listed above. Byron. California 94544 At the above named material was picked up te listed above. Byron. California 94544 Byron. Cali | Vehicle License No./State 4CO 9784 Vehicle Certification 300 910 I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date Phone No. 5 1 9 4 4 7 0 4 9 1 Ca. 94550 |
| at the generator si | P. O. Box 218 Byron. California 94544 At the above named material was picked up te listed above. Byron. California 94544 At the above named material was picked up te listed above. Byron. California 94544 Byron. Cali | Vehicle License No./State 4CO 9784 Vehicle Certification 300 G/D I hereby certify that the above named material was delivered without incident to the destination listed below. Driver Signature Delivery Date Phone No. 5 1 Q 4 4 7 0 4 9 1 |

10/66

APPENDIX E

TANK CLOSURE PERMITS AND UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE REPORT

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

They where the control of the complete of the control of the c

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

| 1. Business Na | meCastro V | /alley Unifi | ed School Bistr | ict Corpora | tion Yard |
|----------------|---------------|---------------|-----------------|-------------|--------------|
| Business Ow | ner Castro V | /alley Unific | ed School Distr | ict | |
| 2. Site Addres | 21,000 k | Vilbeam Avent | 1e | | |
| | | /alley | Zip 94546 | Phone | 510-537-3000 |
| 3. Mailing Add | | | | | |
| | | | Zip 94546 | _ Phone | 510-537-3000 |
| 4. Land Owner | | | | | |
| | | | | Oakland | Zip 94604 |
| 5. Generator n | | nich tank v | | | - |
| EPA I.D. No | . under which | h tank wil | ll be manifes | sted CAC O | 00 68 67 84 |

| , 6. | Contractor | LEE ENGINEERING ENTERPR | ISES | |
|------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|
| • | Address _ | 1153 Bordeaux Drive. Su | ite 103 | |
| | city | Sunnyvale, CA 94089 | | Phone (408) 734-2556 |
| | • | /ре[*] <u>А. В. С10. С2</u>0, С36 НАZ, ASB | | Exp. 2/94 |
| | | 1, 1992, Business and Professional Co tification issued by the State Contr ddition, to holding the appropriate of | | |
| 7. | Consultant _ | DAMES & MOORE | | |
| • | Address | 2101 Webster Street, | Suite 300 | |
| | city | Oakland, CA 94612 | Phone (510 | 839-3600 |
| 8. | Contact Pers | on for Investigation | | |
| | NameErwi | n Livianu | Title _ Pro | ect Manager |
| | _ | 3) 734-2556 | | |
| _ | | | | |
| 9. | | nks being closed under | | |
| | Length of pi | ping being removed und | er this plan _ | 50 FEET |
| | Total number | of tanks at facility | TWO | |
| 10. | State Registinstructions | ered Hazardous Waste T). | ransporters/Fa | cilities (see |
| | ** Undergrou | nd tanks are hazardous as hazardous | waste and must | be handled ** |
| | a) Product/1 | Residual Sludge/Rinsat | e Transporter | . • |
| | | efineries Service | _ | No. CAD 981696420 |
| | | License No. 2591 | | |
| | | 13331 No. Hwy 33 | | |
| | City | Patterson | StateCA | Zip95363 |
| | b) Product/F | Residual Sludge/Rinsate | Disposal Site | |
| | Name | Refineries Service | EPA I.D. | No. CAD 083166728 |
| | | 13331 No. Hwy 33 | | • |
| | city | Patterson | State _CA | Zip 95363 |
| | | | | _ |

| • | c) Tank and Piping Hamsporter | |
|-----|---------------------------------------------------------|----------------------------------------|
| • | Name Frickson, Inc. EPA I.D. No. CAD 00 | 466 392 |
| | Hauler License No. 0019 License Exp. Date | |
| | Address 255 Parr Blvd. | |
| | City Richmond State CA Zip 948 | <u>)1</u> |
| | d) Tank and Piping Disposal Site | |
| | Name Erickson, Inc. EPA I.D. No. CAD 00 | 9 466 392 |
| | Address 255 Parr Blvd. | |
| | City Richmond State CA Zip 9480 |)1 |
| 11. | 1. Experienced Sample Collector | |
| | Name Peter Davis/Luke Anderson | ······································ |
| | Company DAMES & MOORE | |
| | Address 2101 Webster Street, Suite 300 | |
| | City Oakland State CA Zip 94612 Phone(510) | 839-3600 |
| 12. | 2. Laboratory | |
| | Name KCKY, INC. Analytical Service | • |
| | Address 3942 Valley Avenue, Suite F | |
| | City Pleasanton State CA Zip 9456 | 6 |
| | State Certification No. 1587 | |
| 13. | 3. Have tanks or pipes leaked in the past? Yes [] No [] | UNKNOWN |
| | If yes, describe | · · · · · · · · · · · · · · · · · · · |
| | | |
| | | |
| | * SEE FACE 5 | |

•. •

.14. Describe methods to be used for rendering tank inert

30 pounds of dry ice per 1000 gallon capacity will be added to the tanks
Once the LEL has been sufficiently lowered to the satisfaction of the

Fire department and County Inspectors, the tanks will be removed.

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

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

15. Tank History and Sampling Information

| Tank | | Material to | Togation and | |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Capacity | Use History (see instructions) | be sampled (tank contents, soil, ground- water, etc.) | Location and Depth of Samples | |
| 1. 2000 gal 2. 2000 gal 3. 1000 gallon | Installed 1957. Single wall; steel construction; contained gasoline Installed 1957. Single wall; steel construction; contained diesel Both tanks were last used in 1989. Tank Integrity Tests performed at that time did not show any tank leaks. Unknown fuel (905?) | SOIL SOIL AND ENCURPTER IF ENCURPTERED | One soil sample taken from NATIVE SILL immediately below each tank, and one soil sample from each sidewall in the center and at the bottom of the wall. Groundwater is not anticipated in the tank pit. Also, one soil sample for every 20 linear feet of pipe will be collected from beneath the pipes, CONCENTRATIONS AT TOINTS, ELECULE, OR OTHER CONCENTRATIONS | |

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

* This UST was discovered during closure of initial two USTS on 6-25-92.

¥

| Excavated/Stockpiled Soil | | |
|------------------------------------------|--------------------------------------------------------------------------|--|
| Stockpiled Soil Volume (Estimated) | Sampling Plan | |
| 200 cubic yards | 1 4-point composite/100 cubic yards, APPENDATE DEPOSAL/BASIND | |
| | une decrete symple Rep. 20 yos' for cusite Reuse; nd Results Reduired | |

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

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

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

| Contaminant Sought | EPA, DHS, or Other Sample Preparation Method Number | EPA, DHS, or Other Analysis Method Number | Method Detection Limit |
|-----------------------|------------------------------------------------------------------------------|-------------------------------------------------|------------------------------|
| DIESEL | EPA 3550 | EPA-Modified 8015 | l ppm |
| TPH-Gasolin BTEX | EPA 5030 EPA 8020 | EPA-Modified 8015 8020 | l ppm 2.5 ppb |
| Total Lead | EPA 7421 | EPA 7421 | 0.2 ppm |
| * Note: The | contracted laboratery in form increasing anolyses well to perform this test. | s not certified to | ••• |

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

-18. Submit Worker's Compensation Certificate copy

Name of Insurer MARGEVICH TALMADGE & ASSOCIATES

- 19. Submit Plot Plan (See Instructions)
- 20. Enclose Deposit (See Instructions)
- 21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)
- 22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

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

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

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

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

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

Name (please type) Erwin Livianu

Signature May 29, 1992

Date May 29, 1992

Signature of Site Owner or Operator

Name (please type) CARY CyJensen For S.F. BAY AREA RAPID TRASIT L

Signature May CyJensen For S.F. BAY AREA RAPID TRASIT L

Signature May CyJensen For S.F. BAY AREA RAPID TRASIT L

Date 10/2/97

rev 3/92

TOWNSHIP OF EDEN, UNINCORPATED ALAMEDA COUNTY /31U31 (d) (EL) MATCH LINE SEE DWG NO. COOS SITE PLAN DUBLIN/PLEASANTON EXTENSION UNATED DENOLITION/REMOVAL OF STRUCTURES BAY FAM /CASTRO VALLEY COSTRO VALLEY COSTRO VALLEY COSTRO VALLEY COSTRO VALLEY SAIT FRANCISCO BAY AREA RAPID TRANSIT DISTRICT BAY NA TRANSIT CONSULTANTS BAY AREA TRANSIT CONSULTANTS SEED TO THE SEED OF TH

CERTIFICATE OF INSURANCE

近1952年12日 (1897年)。1

ISSUE DATE (MM/DD/YY) REVISED

MAROEVICH TALMADGE & ASSOCIATES 4655 OLD IRONSIDES DRIVE SUITE 370 SANTA CLARA, CA 95054 (408) 982-1360

INSURED LEE ENGINEERING ENTERPRISES, INC. 1153 BORDEAUX DRIVE, SUITE 103

SUNNYVALE, CA 94089

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

COMPANIES AFFORDING COVERAGE

COMPANY A

SCOTISDALE INSURANCE COMPANY

COMPANY B

RELIANCE INSURANCE COMPANY

COMPANY C

REPUBLIC INDEMNITY COMPANY

COMPANY D LETTER

ASSOCIATED INTERNATIONAL COMPANY

COMPANY E

COVERAGES

PRODUCER *

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | • • |
|-----------|------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------------------------------------------------|---------------------------------------|
| A | GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR. OWNER'S & CONTRACTOR'S PROT. | GLS281305 | 2/15/91 | 2/15/92 | GENERAL AGGREGATE PRODUCTS-COMP/OP AGG. PERSONAL & ADV. INJURY EACH OCCURRENCE | 5 N/A 5 N/A 5 1,000,000 |
| | X OLD OCCURRENCE FOR | M - NOT SUBJECT OT | AMNUAL AGGREGA | ATES. | EIRE CAMAGE (A | \$ 1,000,000 \$ 50,000 \$ 5,000 |
| | AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS | | | | CIMI | 1,000,000 |
| A | SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS | GLS281305 | 2/15/91 | 2/15/92 | BODILY INJURY (Per person) BODILY INJURY (Per accident) | s |
| | GARAGE LIABILITY | | | | PROPERTY DAMAGE | \$ |
| Q | UMBRELLA FORM X OTHER THAN UMBRELLA FORM | XS400720 EXCESS-SPECIFIED P | 1/8/92 ROJECT COVERAG | 2/15/92 E | EACH OCCURRENCE AGGREGATE SIR: | 1,000,000 1,000,000 |
| c | WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY THER | PC941898 | 7/1/91 | 7/1/92 | | 2,000,000 |
| B | ENVIRONMENTAL IMPAIRMENT LIABILITY SPECIFIC PROJECT CO | /ERAGE | 1/10/92 | 1/10/93 | \$2,000,000 LIMIT OCCURRENCE/\$2,00 ANNUAL AGGREGATE | 0,000 |
| WA: | RIPTION OF OPERATIONS/LOCATIONS/VI LVER OF SUBROGATION AP SURED IN GENERAL, POLL E PRIMARY AND CROSS LI | PLIES TO THE WORKE UTION, AUTO AND EX | CESS LIABILITY | N POLICY. POLICIES. | \$50,000 SIR DAMES & MOORE IS IT IS AGREED TH | |

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, REVICENCURE TO THE TOTAL VARIABLE NAMES OF THE PROPERTY OF THE P

AUTHORIZED REPRESENTATIVE mulo

ACORD 25-S (7/90)

CACORD CORPORATION 1990

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SITE HEALTH AND SAFETY PLAN

INTRODUCTION

This health and safety plan prescribes the work-place procedures which should be followed during the soil and groundwater assessment of the site located at Former School District Corporation Yard, 21000 Wilbeam Avenue, Castro Valley, California. The provisions of this plan are mandatory for all Lee Engineering Enterprises (L.E.E.) personnel and subcontractors assigned to this project. All authorized visitors to the site will be required to abide by the procedures. The requirements in this plan may change due to changes in the work conditions; however, no changes will be made without prior written approval of the Health and Safety Officer and the Project Manager.

LEE ENGINEERING ENTERPRISES, INC. is committed to providing a safe and healthful working environmental for all its employees and subcontractors.

ASSIGNMENT OF RESPONSIBILITY

PROJECT MANAGER

L.E.E.'s Project Manager will be Erwin Livianu, who will be responsible for oversight and management of the project. Paul H. King will be responsible for the implementation and management of the Health and Safety plan.

HEALTH AND SAFETY OFFICER

Mr.Paul H. King or his designee will visit the site periodically and during critical phases of the project. The Health and Safety Officer is responsible for preparation of this plan.

L.E.E. SITE REPRESENTATIVE

During most of this project there will be an L.B.E. representative on site. That representative will be responsible for day to day implementation of the Health and Safety plan and overall direction of subcontractor personnel. The L.B.E. representative is empowered to stop all site work in the case of violation of the requirements of the Health and Safety plan.

OTHER PROJECT PERSONNEL/SUBCONTRACTOR

All project and subcontractor personnel will be responsible for understanding and complying with the project Health and Safety requirements.

HAZARD CHARACTERIZATION AND RISK ANALYSIS

PETROLEUM CONTAMINATED WATER AND SOILS

Gasoline and its constituents pose health hazards in two major classifications: explosivity and toxicity. The extreme flammability of gasoline is commonly known. The Lower Explosion Limit (LEL) of gasoline vapor is 1.3 percent in air. If the concentration of gasoline vapor in air exceeds 1.3 percent (13,000 parts per million) and sufficient quantities of oxygen are present, then the introduction of sufficient heat, spark, or flame will result in an explosion.

Prior to conducting any subsurface excavation in the vicinity of a fuel tank, the tank should be emptied of all liquid product and receive sufficient quantities of dry ice (frozen carbon dioxide) so that available oxygen is displaced from the tank atmosphere.

A lesser known health hazard resulting from exposure to gasoline is toxicity. Over exposure to petroleum hydrocarbon vapor can cause depression of the central nervous system. Inhalation of high concentrations of gasoline can cause chemical pneumonia and/or pulmonary edema. Repeated prolonged skin exposure to gasoline or gasoline contaminated materials can cause dermatitis or even blistering of the skin.

Several common constituents of gasoline which have been shown to cause serious health problems resulting from relatively minor exposures, includes benzene, toluene, meta, para, ortho xylenes, ethyl benzene and tetraethyl lead.

Typical percentages (by weight) of these constituents in gasoline are: benzene - 0.12-3.50%, toluene - 2.73-21.80%, meta xylene - 1.77-3.87%, para xylene - 0.77-1.58%, ortho xylene - 0.68-2.66%, and ethyl benzene - 0.36-2.36%. Typical percentage of tetraethyl lead is not available:

Units used to describe occupational exposures to hazardous substances include: exposure limit, also known as the "Threshold Limit Value" (TLV), ceiling limit, and the concentration level that is "Immediately Dangerous to Life and Health" (IDLH). The exposure limit defines the maximum concentration of a substance to which one can be exposed during an eight (8) hour period without suffering significant health effects. The ceiling limit is the concentration level that cannot be exceeded at any time; i.e., a suitable respirator must be worn if concentration values reach the ceiling limit.

The IDLH level represents a maximum concentration from which one could escape within 30 minutes of respirator failure without experiencing escape-impairment or irreversible health damage. IDLH values are not listed for substances that are potential human carcinogens.

EXPOSURE TABLE

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| SUBSTANCE | EXPOSURE LIMIT | CEILING LIMIT | IDLH |
|--------------------|-------------------|-------------------|------------|
| Benzene | 0.1 ppm (8 Hrs.) | 1 ppm (15 Min.) | Carcinogen |
| Toluene | 100 ppm (10 Hrs.) | 200 ppm (10 Min.) | 2,000 ppm |
| Xylene | 100 ppm (8 Hrs.) | 200 ppm (10 Min.) | 1,000 ppm |
| Ethyl Benzene | 100 ppm (8 Hrs.) | N/A | 2,000 ppm |
| Tetraethyl Lead | 0.0067 ppm | N/A | 3.6 ppm |

Prolonged exposures to concentrations above the limits noted may affect the central nervous system, cardiovascular system, respiratory system, eyes, skin, kidneys, bones and bone marrow. Research has shown that benzene is a carcinogen.

Immediate symptoms of over-exposure include: eye irritation, nose irritation, throat irritation, headache, nausea, dizziness, weakness, confusion, euphoria, excitement, staggered gait, abnormal pain, respiratory difficulties, muscle fatigue, and coma.

In order to protect against over-exposure to these compounds, the ambient air will be monitored with a "lower explosion limit/oxygen content meter and/or handled Photo Ionizing Detector (PID). As soon as vapor concentrations approach 75% of the exposure limit value, work will cease until all on-site personnel have donned protective clothing and suitable respiratory devices.

Personnel exposures to excessive job-related hazards are expected to be minimal using these safeguards.

It should be noted that summertime heat may initiate weather stress-related problems and decrease productivity on the job site.

Based upon L.E.E.'s experience with investigations of potentially gasoline contaminated soil and water, overexposure of personnel to gasoline vapor is unlikely.

Personnel, however, may be exposed to short term vapor concentrations approaching 100 ppm. Respiratory protection plans will be directed to protecting personnel from the transient exposures.

DRILLING ACTIVITIES

Various hazards are present during excavating procedures.

- o Electrical hazards due to overhead and underground utility line.
- o Excessive noise.
- o Confined space.
- o Moving portions of the drilling.
- o Falling of heavy overhead objects.
- o Fall hazards due to working at heights.

SITE CONTROL

A site map has been attached to this plan. The areas where work will occur, will be on the site, and may be barricaded to prevent unauthorized access. Only authorized personnel shall be allowed in the work areas and any unauthorized visitors must remain outside any barricaded area.

The site is small enough that normal voice communication can be used. In the vicinity of the excavation, common hand signals will be used.

TRAINING

L.E.E. PERSONNEL

All L.E.E. project personnel shall have completed forty (40) hours of off-site health and safety training, related to hazardous waste operations. In general, L.E.E. personnel will have completed a combination of paid training courses which meet the requirements of both the interim and final Occupational Safety and Health Administration (OSHA) rule for Hazardous Waste and Emergency Response Operations (29 CFR 1910.120). All L.E.E. supervisory personnel on-site will have completed an additional eight (8) hours of relevant health and safety training.

L.E.E. personnel who may visit the site occasionally, and are unlikely to be exposed to chemical hazards, will have completed at least twenty-four (24) hours of relevant health and safety training.

Any L.E.E. or contractor personnel operating specialized industrial equipment such as forklifts, heavy equipment, drilling equipment, etc. shall be able to demonstrate their competency in the safe operation of such items.

PERSONNEL

All subcontractor personnel who are likely to be exposed to hazardous materials, either by inhalation or dermal contact, shall have completed forty (40) hours of off-site health and safety training, in accordance with the OSHA interim and final Hazardous Waste and Emergency Operations rule. Subcontractor personnel who are required to work on the site for short periods of time (1 day or less), and who will not be required to wear any protective equipment, shall have completed at least twenty-four (24) hours of off-site health and safety training.

ALL SITE PERSONNEL

Prior to starting the project, a kick-off safety will be on the site. During this meeting, all personnel will be briefed on the requirements contained within the health and safety plan, and will be told the site safety rules. The kick-off safety meeting will be conducted jointly by the project manager and the HSO.

At the beginning of each work shift, or whenever new personnel arrive on the site, a tailgate safety meetings will be conducted by the first line supervisors. The project manager will review records of all tailgate safety meetings.

MEDICAL SURVEILLANCE

All L.E.E. subcontractor personnel shall provide proof of having successfully completed a preplacement or annual update physical examination. This examination shall have been designed to comply with regulatory requirements for hazardous waste operations and shall include the following:

- o Medical and occupational history form
- o Physical examination
- o Blood analysis
- o Urinalysis
- o Chest X-Ray
- o Pulmonary function test
- o Audiogram
- Electrocardiogram (if indicated during the physical exam)
- o Alcohol and illegal drug screening

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GOVERNMENT AND L.E.E. STANDARDS

Currently the health and safety of workers performing hazardous waste activities are regulated by OSHA (29 CFR 1910.120).

If the PID indicates that hydrocarbon vapor levels are 50 ppm or greater, then daily air samples will be collected from representative project personnel using charcoal tube sampling methods (OSHA Method 1MIS1340). Personnel will be notified in writing of the results of any personal air samples and their significance. A copy of this report will be maintained in the employee's medical surveillance file.

ACCESS AND DECONTAMINATION

ACCESS

Access to the project work area zones shall be regulated and limited to authorized persons. A daily log shall be kept on all persons entering such areas. The work area itself shall be cordoned off using barrier tape or other suitable barriers.

DECONTAMINATION

Due to the low toxicity of the material involved (gasoline), the anticipated low levels of contamination and the minimal hazard posed of spread of contaminated soil, formal decontamination procedures will not be required. The following site requirements will be enforced:

- e Eating, drinking and smoking within the work area are prohibited.
- o Project personnel may eat, drink or smoke outside the work area, only if they have washed their hands and face.
- o An emergency eye wash station shall be located on the job site adjacent to the work area.

Any potentially contaminated equipment will either be disposed of, or washed off with soap and water.

Any equipment used in the contaminated zone should be washed with soap and water before it is removed from the site.

SAFE USE OF FLAMMABLE AND COMBUSTIBLE MATERIALS

Employees shall make sure that combustible scrap, debris and waste

SAFE USE OF FLAMMABLE AND COMBUSTIBLE MATERIALS

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Employees shall make sure that combustible scrap, debris and waste materials (oily rags, etc.) are stored in covered metal receptacles and removed from the worksite promptly. Be sure that proper storage is practiced to minimize the risk of fire including spontaneous combustible liquids and that approved containers and tanks are used for the storage and handling of flammable and combustible liquids.

Employees shall make sure that all connections on drums and combustible liquid piping, vapor and liquid are tight, that all bulk drums of flammable liquids are grounded and bonded to containers during dispensing.

Be certain that storage rooms for flammable and combustible liquids have explosive-proof lights and that storage rooms for flammable and combustible liquids have mechanical or gravity ventilation.

Make sure that liquefied petroleum gas is stored, handled and used in accordance with safe practices and standards, pay particular attention in that "NO SMOKING" signs are posted on liquified petroleum gas tanks. All solvent wastes, and flammable liquids will be kept in fire-resistant, covered containers until they are removed from the worksite.

Vacuuming shall be used whenever possible, rather than blowing or sweeping combustible dust. Be certain that firm separators are placed between containers of combustibles or flammables, when stacked one upon another, to assure their support and stability.

All fire extinguishers will be selected and provided for the particular types of materials in areas where they are to be used.

Class A: Ordinary combustible material fires.

Class B: Flammable liquid, gas or grease fires.

Class C: Energized-electrical equipment fires.

All appropriate fire extinguishers shall be mounted within 75 feet of outside areas containing flammable liquids, and within 10 feet of any inside storage area for such materials. Said fire extinguishers shall be free from obstructions or blockage and that all extinguishers are serviced, maintained and tagged at intervals not to exceed one year.

Be certain that "NO SMOKING" signs are posted where appropriate in areas where flammable or combustible materials are used or stored and that safety cans are used for dispensing flammable or combustible liquids at a point of use. Spills of flammable or combustible liquids are to be cleaned up promptly.

Make sure that storage tanks are adequately vented to prevent the development of excessive vacuum or pressure as a result of filling, emptying, or atmosphere temperature changes. Be certain that storage tanks are equipped with emergency venting that will relieve excessive internal pressure caused by fire exposure and that "NO SMOKING" rules are enforced in areas involving storage and use of hazardous materials.

EMPLOYEE AND WORK RULES AROUND EXCAVATIONS

When excavation is necessary at a job site, before work commences and during the performance of work the site shall be adequately protected to prevent sloughing of earth by shoring or sloping. The site shall be fenced in or boarded over to prevent personnel from slipping or falling in the area when moving about.

No employee shall enter or perform work in an excavation which requires the person's head to be below the surface of the ground until all confined space procedures are followed.

Employees are not permitted to work in or adjacent to any excavation until an inspection is conducted to determine that they will not be exposed to injuries resulting from moving ground and that necessary permits have been obtained.

TOOL AND EQUIPMENT HANDLING

SAFETY DEVICES - Employees must never remove, displace, damage, destroy, or carry away any safety device, safeguard, notice, or warning used at the Company facilities, Company property, or customer job locations.

Never, in any way, interfere with the use of another employee's safety device or safeguard. Verify that all guards and other protective devices are in their proper place, in good repair, and properly adjusted for safe operation. Any deficiency or malfunction must be reported immediately to the supervisor or Safety Representative.

DAMAGED/UNSAFE EQUIPMENT - REPAIR WORK

Employees must not repair operating equipment or machinery, oil moving parts, except when the equipment or machinery is designed or fitted with safeguards or protect the employee while performing the work.

Equipment that is worn, damaged, or otherwise defective to the extent that it is unsafe must be reported immediately to the supervisor or Safety Representative.

CRANE/HOISTING EQUIPMENT

Unauthorized persons are not to be permitted in a crane cab or on a crane at any time. All unattended equipment shall be quarded against operation by unauthorized persons, signals to the operator of the equipment shall be given by a designated person.

Cranes, derricks, hoists or other equipment shall not be used for side pulls or lifts that would affect the stability of overstress the equipment.

Hoisting equipment shall be loaded so that the load is in a stable position and does not exceed the designated safe load. Loads shall be test lifted, brakes checked, and slings readjusted when required, to check the stability and safety of the lift.

Outriggers, when provided, shall be used for the stability and safe operation of the equipment. The operator shall personally check that the outriggers have been properly placed and blocked in position.

A mobile or overhead traveling crane, hoist, or shovel shall not be operated unless the gong or other effective warning device is in suitable operating condition. Equipment surfaces and walkways shall be maintained free of oil, grease, or debris, and, where necessary, non-slip material shall be used.

Wire rope, under tension, shall not be guided yb the nads or feet. Employees shall avoid standing or passing under suspended loads, extreme care shall be exercised in the selection, inspection, and use of chains.

Precautions in dealing with wire rope slings: Do not use knots to make sling.

Pd or block sharp corners.

Do not jerk loads. Lift and lower loads slowly.

Use slings of adequate capacity. consuylt the charts.

Know how much weight you are lifting.

EMERGENCY RESPONSE

In the event of an emergency such as a sickness, injury or fire, the following procedures will be followed:

- Emergency procedures will be initiated by the first person recognizing the emergency situation. This person shall immediately notify the L.E.E. site representative.
- 0 The designated L.E.E. First Aid/CPR provider and a project member shall provide assistance to any injured or sick employee. In the case of suspected release of toxic

material, these personnel shall first don protective suites and self-contained breathing apparatus. The injured employee will first be moved to a safe location before any attempt at treatment is made.

- o A project member will be designated to call the emergency services number (911) to obtain paramedic or fire department assistance if it is needed. Any injured employees will be taken to:
 - 1. Police, Fire, or Ambulance emergency: 911
 - 2. Nearest Emergency Hospital: 510-537-1234
 Eden Hospital
 20103 Lake Chabot Road
 Castro Valley, California
 - 3. Alameda County
 Department of Environmental Services
 Hazardous Materials Services
 80 Swan Way, Room 200
 Oakland, CA 94621

| 4. | Poison control | 209-445-1222 |
|----|------------------------------|--------------------------------|
| | Office of Emergency Services | 800-852-7550 |
| 5. | | 800-424-9300 |
| 6. | Chemtrec | 4 <u>15</u> -974-8 <u>15</u> 3 |
| 7. | EPA Region 9 | 415-556-7260 |
| 8. | HHS Region 9 | |
| 9. | OSHA Region 9 | 415-556-3782 |
| | | |

Any injuries or indicents which have the potential to result in an injury will be recorded by the L.E.E. site representative on the supervisor's employee injury report form. This form, when completed by the site representative, shall be forwarded to the VCI project manager, and the VCI. Corporate health and Safety Department.

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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Division Inspection Form

| | Site i | D# | Site Nam | · CUUSD Corp Yard (BART) Today's Date 6 15/92 |
|-------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Site | Address _ | 2100 W | ilbeam Ave EPA ID#. |
| | City | Castro | Calley | Zip 94576 Phone |
| _ | Hazardo: | t. Stored > 5001 us Waste genera | ted per mont | h? Business Plans, Acute Hazardous Materials III. Underground Tanks |
| 1 | he mark | ed Items repres | ent violation | s of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C) |
| Mankeel | 2 3. 4. 5. 7. 1. 1. | TOR (Title 22) Waste ID EPA ID 90 days Label dates Benniat Records Correct Copy sent Bicception Copies Rec'd | \$ 66471 66472 66508 66508 66493 66492 66484 66492 66484 66492 | Comments: On site to witness closure of 2 USTs; one formerly Stored gosoline; the other, diesel. Representatives from BART, Dames & Moore and Lie Engineering were on hand. VCI Hos the browy equipment subscontractor. |
| ر د ابر د | 12_ (| (realment On-site Disp. (H.S.&C.) Ex Haz, Waste | 66371 26189.5 6657D | Upon arrival (apparent) product was noted flooting |
| Prevention | 15. 16. 17. | Communications Able Space Local Authority Mointenance Training | 67121 67124 67126 67120 67120 | pits. A "myskry" run of Dipur was followed, even two leading to the discovery of a 300 UST, located very |
| Con it. | 20. 21. | Prepared Name List Copies Eng. Coard. Ting. | 67140 67141 67141 67144 | proximal to the initial two. " The two initial tours were morted using solid COs and monitored for meeting |
| Containers, Tonks | 24. 25. 1 25. 1 27. 1 28. 1 29. 0 | Condition Compatibility Maintenance Impection Buffer Zone Containment Sorie Storage Freeboard | 67241 67242 67243 67246 67259 67259 67265 67261 67257 | Dieso I tank - unusual construction; extremely thick against steel; heavy for wrop. Looks in good condition. No obvious heles. The wrop, act steel construction: copyers Gasoline tank - too-wrop, act steel construction: copyers |
| LB | 33. | RTER (Title 22) Applic./Insurance Comp. Cert./CHP Insp. Containers | 66428 66448 66465 | large (-12") how discovered on uner me of take w cap: |
| Monfeet | 34. 37. 38. | Vehicles BPA ID #s Correct HW Delivery Records | 66465 46531 66541 66543 66544 | Tames: Moore recently completed a limited site assistment including the advancement of borings of ment to the UST complex and the collection of soil and rate GW somples. The ments are in a 6/12/ |
| Comp | 41. /88 | Name/ Covers Recyclobles | 46545 46800 | separt by same. Dail sidewall samples required total because of |
| ~ - | | ontact: | an Cn | |
| | | tle: | 13777 - 1 | |
| | 51 | gnature: | | Signature: |

white env.health yellow facility pink files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Division Inspection Form

| | Site ID# | Site Na | · CVUSD Corp | Yard BART | Today's D | ate 6 126,9 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------|------------------------|
| | Site Address | 2100 | Wilson Ave | | EPA II | D# |
| | city Cash | o Co! | 7 | ZIP 9452/6 | . Phone | |
| H _ | 1AX Amt. Stored > 5001 lazardous Waste genera | ted per mo | h? II. Bus | z. Mat/Waste GENER. iness Plans, Acute Ha derground Tanks | zardous Material | s . |
| Th | ne marked items repres | ent violatio | s of the Cailf. Administration | Code (CAC) or the H | leaith & Safety Co | ode (HS&C) |
| iA | GENERATOR (Title 22) 1. Waste ID 2. SPA ID 3. > 90 days 4. Label dates 5. Service 4. Records | * 66471 66472 66508 66508 66493 | Comments: On sik to in the A vocum truck of arrival. This tank | s closure o | 1 1 | your my |
| Honke | 7. Correct 8. Copy sent 9. Exception 10. Copies Rec'd | 66492 66494 66492 | topicther holes we the tok, likely a | re incomfored y | | / |
| . ∮ | 11. Regiment 12. On-life Disp. (H.S.&C.) 13. Ex Hoz. Worre | 66371 26189.5 66570 | excarotor. Al Paral | LEL read | U% Follow | Just Nigoral |
| Prevention | 14. Communications 16. Altie Space 16. Local Authority 17. Maintenance 18. Training | 67121 67124 67126 67120 67105 | of to contacts, The was alded to reduce | , , , , , , , , , , , , , , , , , , , | pior to re | Sold Cor |
| Confl. | 19, Prepared 20, Name Let 21, Copie 22, Erng, Coord, Ting, | 67140 67141 67141 67144 | Ovce removed from | n its excavations a | 7 | holes were mk's bottom |
| Centidinen, Josts | 23. Condition 24. Compatibility 25. Mointenance 26. Impection 27. Buffer Zone 28. Yank impection 29. Containment 30. Sate Storage 31. Freeboard | 672A1 672A2 672A3 672AA 672AA 672A9 67245 67261 67257 | ends, and top. Soil samples were sposite tank ands | e collected f | from pit sid | |
| LS TR | ANSPORTER (Title 22) | 66428 66448 66465 | Pine french somy | oles to be a | collected in | my disense |
| Hasfeet | 36, Vehicles 34, BPA ID As 37, Correct 38, HW Delvery 39, Records | 66465 66531 66541 66543 66544 | Samples from 3! for TPH-G, TP | H-D, and B | mk to be a TEX; total | molyted . |
| ~~ 6/88 | 40, Name/ Covers 41, Recyclobles | 60545 668CE) | | | | · · |
| | Contact: Title: Signature: | mmr. | 11.1 | Inspector: | See ! | |

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CASTRO VALLEY FIRE PROTECTION DISTRICT

Tank Closure Authorization Permit Procedure Guide for Temporary Closure, Placing Out of Service or Removal of Flammable and Combustible Liquid Tanks JUN 2 2

Project Location 21000 Willow AUR

Date of Removal June 25, 1992 Fees Paid NA

Fire Dept Authorization by Russal Date 6-19-92

1. Permits

- A. A fire permit is required to remove, abandon, place temporarity out of service or otherwise dispose of any flammable or combustible liquid tank.
- B. Application for a fire permit shall consist of submittal of:
- 1. Approved copy of Alameda County's tank closure/modification plan.

Note: Alameda County Hazardous Material Division must have a closure plan submitted for placing underground tanks out of service. They can be contacted at (415) 271-4320.

- 2. A description of the procedure that will be used to remove and inert the tank along with a "safety plan" describing the safety procedures to be taken.
- and associated piping, nearby buildings, property lines, method and location of site security (tences, etc.).
- II. Placing Temporarily Out of Service (less than 90 days)
 - A. Fill line, gauge openings, vapor return and pump connection shall be secured against tampering.
 - B. Vent lines shall remain open and maintained in accordance with the Fire Code.
 - C. Monitoring and leak detection shall be maintained as if the tanks are in service.
- 111. Tank Out of Service 90 Days
 - A. Such tanks shall be properly safeguarded or removed.
 - B. The following shall be followed for safe guarding tanks.
 - 1. Remove all product from tank and purge tank.

| | INDERGROUND STORAGE TANK UNAUTHORIZED BELEASE (LEAK) CONTAMINATION SITE BENGE | | | | | | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|--|--|--|
| EN | UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT EMERGENCY HAS STATE OF FICE OF EMERGENCY SERVICES FOR LOCAL AGENCY USE ONLY | | | | | | |
| ' | YES NO REPORT BEEN FILED? YES NO | THEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFOR DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE | MATION ACCORDING TO THE | | | | |
| AEI | CASE CASE | DESTRUCTION SHOWS ON THE INSTRUCTION SHEET ON TH | SE BACK PAGE OF THIS FORM | | | | |
| 15.50 | NAME OF INDIVIDUAL FILING REPORT PHONI | SIGNATURE | DATE | | | | |
| | 1 m am / 1 | 0) 208 (368) | 11- | | | | |
| PORTED | REPRESENTING . | COMPANY OR AGENCY NAME | | | | | |
| B | LOCAL AGENCY OTHER | Dames 8 Noore | | | | | |
| \not | | CITY | A 94-6/2 | | | | |
| RESPONSIBLE PARTY | BART. D UNKNOWN | GALLY JENSEN | PHONE () | | | | |
| A 8.9 | PLO. BOX 12688 | , , , , , , , , , , , , , , , , , , , | \$ 94604 | | | | |
| V | FACILITY NAME (IF APPLICABLE) CARTIES VALLEY, VNI (P) 300 SCHOOL DUTTRECT: CORPORATION YAF | OPERATOR D | PHONE (SLO) 537 3000 | | | | |
| SITE LOCATION | 21,000 Wd BEAMSTREET AUGNUT | or CASTRO VOLLEY | 7454-6 | | | | |
| | CROSS STREET NORBELDGE | | 4 | | | | |
| 2 S | LOCAL AGENCY AGENCY NAME | CONTACT PERSON | PHONE | | | | |
| MPLEMENTING | ALAMETA COUNTY HOOLTH AGENCY | 5 500 TT & 500 BUY | PHONE 27(4530 | | | | |
| , | | | () | | | | |
| SUBSTANCES | (1) GAROLINE NAME | | CUANTITY LOST (GALLONS) UNKNOWN | | | | |
| SS. ₹ | | | UNKNOWN | | | | |
| ABATEMENT | QIGIZOS DI TANK TEST X TANK | ENTORY CONTROL SUBSURFACE MONITORING K REMOVAL OTHER | NUISANCE CONDITIONS | | | | |
| HY/ABA | DATE DISCHARGE BEGAN | METHOD USED TO STOP DISCHARGE (CHECK ALL THAT A | | | | | |
| COVERY | HAS DISCHARGE BEEN STOPPED ? | · · · · · · · · · · · · · · · · · · · | ACE CHANGE PROCEDURE | | | | |
| 8 | SOURCE OF DISCHARGE | REPLACE TANK OTHER | | | | | |
| SOURCE/ CAUSE | TANK LEAK LINKNOWN ON | ERFILL RUPTURE/FAILURE | SPILL 11/ | | | | |
| | CHECK ONE ONLY | AROSION X UNKNOWN | OTHER TOUC | | | | |
| 385 | UNDETERMINED SOIL ONLY GROUNDWATER | DRINKING WATER - (CHECK ONLY IF WATER WELLS I | IAVE ACTUALLY SEEN AFFECTED) | | | | |
| ≨ α | CHECK ONE ONLY NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT | WORKPLAN SUBMITTED POLLUTION CHAR | ACTE DIZATION | | | | |
| CURRENT | LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT | UNDERWAY POST CLEANUP M | ONITORING IN PROGRESS | | | | |
| | REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLE CHECK APPROPRIATE ACTION(S) | | NAY | | | | |
| 3 8 | EXCAVATE & DISPOSE (ED) CAP SITE (CD) EXCAVATE & TREAT (ET) | | ENHANCED BIO DEGRADATION (IT) REPLACE SUPPLY (RS) | | | | |
| REMEDIAL ACTION | CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) | = | ENT SOIL (VS) | | | | |
| _ | VACUUM EXTRACT (VE) OTHER (OT) | | | | | | |
| ENTS | coale we found upon t | tak closure, Ta | -k removed | | | | |
| COMMENTS | and remediation underna |) | | | | | |
| L.J | | | HSC 05 (890) | | | | |

To: Alameda County Department of Environmental Health, Hazardous Materials Division 80 Swan Way, Room 200 Cakland CA, 94621

Attention: Mr. Scott Seery Subject: Tank Closure Report Date 12/17/92

Your Order No.

Our Job No. 03715-051-043

We are sending you via Overnight Delivery

the following Tank Closure Report,
Underground Storage Tank Removal
Former School District Corporation Yae:
Castro Valley Station

This is These are for Your Records

No. of copies submitted:

Copies to:

Dames & Moore

Project Geologist