

**PHASE I AND II ENVIRONMENTAL AUDITS
AND SOIL REMEDIATION
CUROCO STEEL SYSTEMS
536 CLEVELAND AVENUE
ALBANY, CALIFORNIA**

prepared for

Alameda County Health Care Services Agency
Oakland, California

and

California Regional Water Quality Control Board - San Francisco Bay Region
Oakland, California

prepared by

ENVIRON Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

April 14, 1992

April 14, 1992

Mr. Ron Mayo, President
Curoco Management Corporation
2775 Goodrick Avenue
Richmond, CA 94801

**Re: Phase I and II Environmental Audits and Soil Remediation
Curoco Steel Systems
536 Cleveland Avenue, Albany, California
ENVIRON Contract No. 03-1332D**

Dear Ron:

ENVIRON is herewith providing its final report on the subsurface investigation we conducted and the soil remediation which was performed at the Albany Facility of Curoco Steel Systems. Upon Curoco's authorization, we will submit this report to the Alameda County Health Care Services Agency, Department of Environmental Health to request site closure with respect to the soils containing paint residue and underground storage tank which were formerly at the site.

This letter certifies that the subject report has been prepared by ENVIRON Corporation under the professional supervision of the undersigned California Certified Engineering Geologist. The findings, recommendations, specifications, or professional opinions are presented after being prepared in accordance with generally accepted professional geologic and engineering practice. There is no other warranty, either expressed or implied.

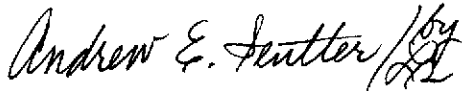
Mr. Ron Mayo

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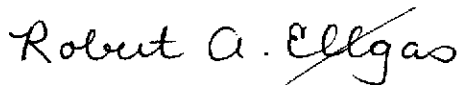
April 14, 1992

ENVIRON appreciates the opportunity to have been of service on this project. If you have any questions, please call.

Very truly yours,



Andrew E. Seutter
Certified Engineering Geologist
EG 1485 (exp. 6/30/92)



Robert A. Ellgas, Ph.D.
Manager



Phillip L. Fitzwater, R.G.
Principal

AES:RAE:PLF
Enclosure

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1.0 EXECUTIVE SUMMARY

ENVIRON conducted environmental assessments and investigations and provided oversight to contractors who remediated soils containing paint residues at the Curoco Steel Systems site in Albany, California. ENVIRON also provided technical oversight to the removal of an underground storage tank at the facility. Based on confirmatory soil sampling and laboratory analysis, ENVIRON concludes that the investigation and activities performed on soils at the site have been sufficient and that remediation activities have been implemented according to an approved Remedial Action Plan. We conclude that no further work is necessary. This work can be summarized as follows:

Investigation and Remediation of Soils Containing Paint Residue

- Investigation to evaluate the extent of soils affected by paint residue completed by ENVIRON in April 1990.
- SITE successfully conducted bench-scale fixation of soluble metals on soil samples from Curoco site and submitted Remedial Action Plan in December 1990.
- 250 to 300 cubic yards of soil (approximate total) excavated from the rear of the site in January and February 1991.
- 163 cubic yards of soil (approximate total) was treated on-site by SITE to fix soluble metals and was disposed at Forward, Inc. Landfill in Stockton, California.
- 99 cubic yards of soil (approximate total) was stockpiled separately and was disposed at 2USPCI Class I landfill in Tooele County, Utah.
- Confirmatory soil samples from excavation base and sidewalls indicated no metals concentrations requiring further excavation.

- Excavation backfilled with imported crushed rock and class II aggregate base.

Underground Storage Tank Removal and Soil Excavation

- 550-gallon underground gasoline storage tank removed on May 25, 1990.
- Tank and liquid contents shipped to H&H Ship Service Co. in San Francisco for destruction.
- 30 cubic yards of soil (approximate total) removed in three excavation phases between May 1990 and February 1991; soil aerated and treated on-site.
- Confirmatory soil samples from excavation sidewalls indicated no detectable petroleum hydrocarbons except in one sidewall sample, which had a very low detection (16 mg/kg).
- Excavation backfilled with imported fill.
- Treated soil disposed at Forward, Inc. Landfill in Stockton, California.

2.0 INTRODUCTION

2.1 Site Background and Previous Site Assessment Activities

The Curoco Steel Systems (Curoco) facility is located at 536 Cleveland Avenue in Albany, California. The site is nearly flat and is located at the base of Albany Hill (a local topographic high point). The site is just east of the San Francisco Bay, and is positioned between Interstate 80 on the east and Interstate 580 and the Southern Pacific Railroad tracks on the west. One building, which formerly housed sheet steel fabricating and painting operations and the company offices, occupies the majority of the property. A site location map is provided in Figure 1, and a site plan is provided in Figure 2.

As a result of a September 16, 1983 facility inspection by the former California Department of Health Services (DHS), Curoco was directed to remove soils that contained concentrations of chromium, lead and zinc above California Code of Regulations (CCR) Title 22 hazardous waste limit concentrations. The soil containing the metals had resulted from a previous operations practice of sweeping and discarding dried paint chips and other paint residues out the rear of the site building. These paint residues over time became a part of the soil.

On December 3, 1984, American Environmental Management Corporation (AEMC) submitted a Plan of Correction to DHS, which was approved in amended form on February 11, 1985. On February 22, 1985, soils were excavated to a depth of about one foot in a 10 foot by 50 foot area (a volume of about 8 cubic yards) on the southwest side of the property.

Post-excavation sampling indicated residual elevated levels of chromium, lead and zinc, and on June 13, 1985, DHS wrote to Curoco stating that the additional cleanup was inadequate. Curoco was ordered to delineate the extent of these metals to the east and north of the drain inlet adjacent to the railroad tracks, and to remove and dispose of the

soils once this extent was established. On July 19, 1985, AEMC submitted an amended Plan of Correction to obtain samples at seven locations and several depths for additional metals analyses. On August 16, 1985, DHS gave its approval to the Plan after increasing the number of sampling locations to 12 and requiring the California Assessment Manual Waste Extraction Test (CAM WET) on samples where chromium, lead or zinc concentrations were over 10 times their corresponding Soluble Threshold Limit Concentration (STLC). It is not certain whether any action was taken in implementing this Plan of Correction.

In December 1988, Blymer Engineers, Inc. (BEI) carried out a brief additional site assessment, which included a site occupation history and a visual inspection of the site. On January 12, 1989, BEI submitted its report to Curoco. BEI stated that the matter of whether the 1985 Plan of Correction had been implemented remained unresolved. They also stated that a 500-gallon underground fuel storage tank (UST), which apparently contained gasoline at one time, was still present at the facility, but its exact location was unknown. BEI recommended locating the UST.

On April 25 and May 10, 1989, Curoco contracted Bay Area Environmental, Inc. (BAE) to implement the sampling portion of the Plan of Correction approved by DHS in August 1985. At 12 locations, BAE took surface samples and a subset of samples at depths of 1 and 2 feet, for a total of 26 samples. In addition, one ground water sample was collected. In summer 1989, BAE issued their Preliminary Contamination Assessment Report. Laboratory analysis results showed that almost all soil samples were below the Total Threshold Limit Concentrations (TTLCs) for chromium, lead and zinc, and that concentrations of chromium and zinc rapidly attenuated with depth. However, many samples at 1 and 2 feet depth were still elevated in lead (greater than 10 x STLC). Two surface samples (locations 1 and 6) exceeded the TTLC for chromium, and three surface samples (locations 1, 6, and 7) exceeded the TTLC for zinc. None of the samples at 1 and 2 feet depth exceeded the TTLC for chromium, lead, or zinc. It was noted that lead concentrations were elevated in background soils. Several CAM WETs for lead were completed, and the results were higher than the STLC for lead. BAE recommended that chromium should be used as the indicator of "cleanup" and that soils

should be removed to 2.5 feet around sample sites 1, 2, 3, 5 and 6, and to 1 foot around other sampling sites. The 12 BAE sampling locations are shown on Figure 2.

2.2 Purpose and Scope of Recent Work

In December 1989, Curoco requested ENVIRON Corporation (ENVIRON) to review the technical information available from past site assessment activities as well as information contained in regulatory agency files for the subject site and for the adjacent Western Forge and Flange site. ENVIRON was then asked to recommend an approach for addressing elevated soil metals concentrations which could be implemented simultaneously with the sale of the facility. On January 26, 1990, ENVIRON proposed a course of action that included the following tasks:

- **Task 1**

Collect soil samples from boring locations 4, 7, 8, 9, 10, 11 and 12, as well as two locations south of the property boundary and one north of the property boundary (see Figure 2)*. Samples to be collected at depths of 0, 1, 2, and 4 feet, as necessary to supplement existing data, in order to develop a vertical soil chemical profile at each sampling location. Analyze samples for total chromium, lead and zinc. If samples exceed 10 times the STLCS, then the CAM WET should be performed;

- **Task 2**

Submit an assessment of the vertical extent of metals in soils, recommendations for further work, and an estimate of costs for remediating soils in the areas of concern; and

*This task was subsequently expanded to include additional sampling for locations 1, 2, 3, 5 and 6.

- **Task 3**
Implement necessary remedial actions.

Task 1 was carried out in February and March 1990. Task 2 included additional investigation and was implemented in conjunction with Task 3. The Task 2 assessment and the results of Task 3 are the subject of this summary report. ENVIRON provided technical oversight to Task 3, which was implemented by contractors hired by Curoco both for the removal of the underground storage tank in May 1990, and for the excavation, treatment, and off-site disposal of soils containing paint residue in January through March 1991. During the excavation to remove soils containing paint residue, a corroded corrugated metal drain pipe containing residual oily material was encountered on the adjacent Southern Pacific Railroad property. This drain pipe and adjacent soils were independently removed by Southern Pacific.

The investigations and three separate remedial efforts (paint residue, corrugated pipe, and underground tank) were conducted nearly simultaneously and are discussed in Sections 2, 3, and 4, respectively.

2.3 Topographic Map and Aerial Photo Review

ENVIRON developed a site history by reviewing historical topographic maps published by the United States Geological Survey in 1899, 1915, 1942, and 1980, and by reviewing historical aerial photographs from Pacific Aerial Surveys taken in 1947, 1953, 1959, 1969, 1977, 1979, 1980, 1983, 1985 and 1988. A detailed description of this review is presented in Appendix A.

3.0 INVESTIGATION AND REMEDIATION OF SOILS CONTAINING PAINT RESIDUE

3.1 Initial Field Activities

The soil sampling program to investigate the extent of metals from paint residues in soil was carried out on February 9, 20, and 21, 1990. Soil samples were collected at boring locations 1 through 12 (corresponding with DHS's recommended locations), at two locations south of the property boundary (borings 14 and 15), and at one location north of the property boundary (boring 13; see Figure 3). Soil samples were obtained at depths of 1, 2, and 4 feet at boring locations 13, 14, and 15; at 2 and 4 feet at boring locations 4, 7, 8, 9, 10, and 12; and at 4 feet from borings 1, 2, 3, 4, 5, and 11. These sample depth intervals were chosen so that when combined with previous samples obtained by BAE, all of the borings would have soil samples collected from depths of 1, 2, and 4 feet. The 2-foot sample could not be obtained at boring location 11 due to the very gravelly soil encountered at this depth.

All borings were drilled by a two-man gas-powered auger with a 4-inch auger bit. Hand auguring was attempted at first, but was found to be unsuccessful at penetrating a cobble layer found at about 1-foot depth. Once the desired sample depth was reached, samples were collected using a hand-driven soil sampler lined with a 2-inch diameter aluminum sample tube. Samples were immediately labeled, capped with plastic end caps, sealed with tape, and placed in a cooler. Following the completion of sampling, the samples were delivered with chain-of-custody documentation to BC Analytical of Emeryville, California. The soils were analyzed for total chromium, zinc, and lead using EPA Test Method 6010. All of the soil samples were retained to run the California Assessment Manual Waste Extraction Test (CAM WET) if concentrations of these metals were beyond 10 times the soluble threshold limit concentration (STLC). Data are summarized in Figure 3, which provides a graphic summary of all pre-excavation metals

analyses. Laboratory reports, including copies of the chain-of-custody forms, are included in Appendix B.

During the drilling of borings 11, 11B, and 4, a layer of oily material with a strong odor resembling petroleum was observed floating on top of the ground water. This layer was found beginning at 8 inches below ground surface in boring 11. After observing this material it was concluded that ground water samples should be collected from borings 4, 5, 8, 10, 11, 12, 13, 14, 15, and 11B. Boring 11B was located approximately 5 feet to the east of boring 11. This boring was drilled only to the saturated-unsaturated interface so that a ground water sample could be obtained. Ground water samples were collected in 500 ml glass jars with TeflonTM-lined screw caps and immediately labeled and placed in a cooler. Following the collection of ground water samples, the samples were delivered with chain-of-custody-documentation to BC Analytical. Ground water samples were analyzed for quantification and identification of total petroleum hydrocarbons using EPA Test Method 8015 Modified. Analytical results of the hydrocarbon sampling are summarized in Table 1. Complete laboratory reports are included in Appendix B.

After soil and ground water sample collection was completed, the borings were backfilled with 3/8 inch bentonite chips and portland cement. The backfill material was thoroughly hydrated to form an adequate seal.

Two additional shallow soil borings were hand-drilled on April 12, 1990 to collect soil and ground water samples representative of background conditions. Boring BG-1, located 15 feet east of the railroad tracks and approximately 300 feet south of the Curoco property, was drilled to a total depth of 4½ feet. Boring BG-2, located 47 feet east of the railroad tracks and approximately 2,200 feet south of the Curoco property (near the junction of Interstates 80 and 580), was drilled to a total depth of 4½ feet. Four soil samples were collected from each boring with a hand-driven sampler lined with a six inch long brass tube. A sample of ground water (which was encountered at 2 feet depth) was collected from BG-1. No ground water was encountered in BG-2. The borings were backfilled with native materials because these were background sampling locations.

The background soil samples were placed in an iced cooler and transported under chain of custody to BC Analytical in Emeryville. The samples were analyzed for total chromium, zinc, and lead by EPA Test Method 6010. The ground water sample was analyzed for total petroleum hydrocarbons by EPA Test Method 8015 Modified. Analytical results of the background soil sampling are summarized in Table 2. The complete laboratory report, and a copy of the chain-of-custody form, are included in Appendix B.

Two surficial soil samples were collected on May 8, 1990 from the area immediately west of the Curoco building to assess treatability in preparation for evaluating remediation options. These samples were delivered to Sab International Technology Enterprises, Inc. (SITE) to perform a bench-scale test utilizing a proprietary soil fixation process.

3.2 Establishing Background Concentrations and Areas Requiring Remediation

ENVIRON utilized the average of the two background soil borings (BG-1 and BG-2) to determine the background concentration of total chromium, total lead, and total zinc at the four depths which were sampled. Table 2 lists the analytical results for background sampling and the average metal concentration calculated for each depth.

Upon examination of the background sampling results, it is apparent that total chromium concentrations are relatively consistent at the four depths sampled. Both lead and zinc concentrations, however, decrease with depth across the 4-foot interval sampled. It appears that local sources (industries, railroad, and highways) have contributed both lead and zinc to the area's surficial soils, but that no sources of total chromium exist near the site.

The local area's average background total chromium, lead, and zinc concentrations for each respective depth were subtracted from the metal concentrations found in samples collected at the same depth within the area containing paint residue. This resultant concentration was then utilized to delineate the areas and depths of soil requiring remediation. In general, areas where the concentration of a metal was greater than 10 times the STLC, but lower than the TTLC, were proposed for excavation, on-site

treatment, and appropriate off-site disposal. Areas where the concentration of a metal was greater than the TTLC were proposed for excavation and off-site treatment and disposal at a Class I facility.

The approach of subtracting the mean background concentrations worked well for total chromium and for zinc. Based on this method, however, different conclusions were made regarding lead. Samples containing elevated concentrations of total chromium and zinc were generally restricted to shallower soils. These total chromium and zinc concentrations were observed to decrease with depth, and were likely associated with Curoco's activities. Samples containing elevated concentrations of lead had a different distribution. In several borings (e.g., 2, 3, and 14) deeper samples (2 and 4 feet) had a higher total lead concentration than shallower samples (0 and 1 foot). ENVIRON concluded that the two depth distributions (shallow vs. deep) of elevated total lead were an artifact of the fill which had been placed at the rear of the site, as described below.

The soils at the site consisted both of native deposits and of older and younger generations of fill materials. These soils contained varying (elevated) concentrations of metals from background sources (primarily lead from leaded gasoline and the adjacent interstate highways) based on the length of time they were exposed and on when they were covered or buried by a younger fill. This burial created horizons of soil which contained lead from background sources, but which were not exposed to Curoco's activities. Curoco's activities caused some of the site's surficial soils to be affected by paint residues containing chromium, lead, and zinc. These metals commingled with some of the background lead which was near the surface, but did not reach some of the buried horizons of soil containing elevated concentrations of lead from background sources. Therefore, there are soils at the site containing elevated lead concentrations which are deeper than the soils affected by Curoco's activities, but which were not affected by Curoco's activities.

Based on the historical map and photograph review, ENVIRON could not definitively conclude when, and in how many episodes, the fill was placed at the rear of the site. However, based on correlating elevated lead concentrations in soil samples to elevated total chromium and zinc (which were reasonably inferred to be the result of

Curoco's activities), ENVIRON concluded that areas where deeper soil samples contained elevated lead without elevated total chromium and zinc had not been adversely affected by Curoco's activities. These were 2- and 4-foot intervals. Using this approach, it is also apparent that on the Curoco property, the calculated average lead concentration (even for surficial soils, where the calculated average equals 160 mg/kg) is significantly lower than some of the deeper concentrations which are likely attributed to background input on the original ground surface. The background surface soil sample containing the higher of the two lead concentrations (240 mg/kg) likely represents a more typical background surface (or pre-fill placement) lead concentration for this area.

The limits of the proposed excavation, the soil treatment process, and the site safety procedures to be followed were detailed in *Remedial Action Plan For Soil Remediation at Curoco Steel Systems* and *Safety and Health Plan for Soil Remediation at Curoco Steel Systems*, both dated December 26, 1990 by SITE, Inc. These documents were submitted to the Alameda County Health Care Services Agency (Alameda County) for review prior to beginning the excavation. The proposed sampling locations for confirming the effectiveness of the excavation and remediation were described in a letter to Mr. Ron Mayo entitled *Post-Excavation Sampling and Analysis Plan, Curoco Steel Systems, 536 Cleveland Avenue, Albany, CA, 94710* dated January 16, 1991 by ENVIRON. This plan was also submitted to Alameda County for approval. Mr. Lawrence Seto, Senior Hazardous Materials Specialist with Alameda County, provided verbal approval of the project on February 1, 1991.

The proposed excavation had a four tier (depth) configuration (1, 2, 3, and 4 feet deep), with the deeper parts closer to the site building and the shallower part adjacent to the railroad tracks. It was anticipated that the dimensions of the excavation pit would be modified slightly during excavation based on visual observation of possible remaining paint residue, the analytical results of post-excavation soil samples, and the level of ground water.

3.3 Excavation and Post-Excavation Soil Sampling Activities

The remediation of soil containing metals from paint residue began the week of January 7, 1991. SITE, the remediation contractor, began excavation by removing approximately 6 inches of surficial soil (depicted on Figure 4 as likely greater than the TTLC) with a backhoe from the area immediately adjacent to the Curoco building. Five soil samples were collected on January 14, and one soil sample was collected on January 16, 1991 to confirm that the soil remaining after excavation of the surficial 6 inches was below the TTLC for total Cr, Zn, and Pb. These samples were delivered to Curtis & Tompkins, Ltd. in Berkeley, California under chain-of-custody. Figure 4 depicts the locations of soil samples #1 @ 6" through #6 @ 6".

Excavation proceeded simultaneously in other parts of the work area to remove and stockpile soils containing paint residues with metals concentrations likely below the TTLC but above ten times the STLC. The initial part of this excavation was completed on January 17, 1991. Additional excavation was still intended in the far southeast corner of the excavation area, but was delayed because of equipment access problems. Soil samples #7 through #19 were collected from the excavation bottom and sidewalls on January 18, 1991 to confirm removal of soil to background levels of total Cr, Zn, and Pb.

Concentrations of Cr, Zn, and/or Pb were above background in areas represented by five (#8 through #12) of these original thirteen confirmation soil samples. Additional excavation to remove these "hot spots" was conducted by SITE in the southwestern corner of the work area to extend the excavation both deeper and laterally to the south and to the west.

ENVIRON collected the last of the originally-proposed confirmation samples (#20) from the southeast corner of the excavation area on February 1, 1991. Three "re-samples" (#1B, #2B, and #3B) were collected to verify that the additional excavation performed in the southwest corner of the work area had gone deep enough and that it had proceeded far enough to the south to remove soils affected by paint residues.

Additional lateral excavation to the west (up to the base of the rail tracks) was performed on February 26, 1991. ENVIRON collected the last two verification "re-samples" (#4B and #5B) along the railroad tracks on February 27, 1991.

The actual base of the excavation was generally flat, with the topographic slope of the ground surface away from the building accounting for the tiered depths. The boundaries and depths of the actual excavation are depicted on Figure 4. Table 3 summarizes the analytical results of the post-excavation sampling. Complete laboratory reports and copies of the chain-of-custody forms are included in Appendix C.

3.4 Discussion of Post-Excavation Sampling Results

In summary, two initial phases of confirmation soil sampling, and one subsequent phase of resampling, were performed, first to confirm that the initial excavation had removed soils containing hazardous concentrations of metals, and then that additional excavation had removed the remainder of the soils affected by paint residues. Figure 4 depicts the locations of the soil samples that were collected.

The initial samples (soil samples #1 @ 6" through #6 @ 6") were collected after the surficial soil containing the highest (likely greater than the TTLC) metals concentrations was removed from the excavation area. Based on these results, the excavation proceeded deeper in the "likely greater than the TTLC" area to remove the soils containing paint residue with possible metal concentrations above 10 times STLC.

Samples numbered #7 through #20 were collected from the bottom and sidewalls of the excavation to demonstrate that the excavation process had removed sufficient soils containing paint residue. Analytical results from samples #7 and #13 through #20, representing the northern, central, eastern, and southeastern parts of the excavation, indicate that soils remaining in these areas contained background-adjusted metals concentrations below 10 times STLCs.

Bottom and sidewall soil sampling indicated that an area represented by samples #8 through #12 in the southwestern part of the excavation still contained soils containing paint residue. Therefore, the excavation was deepened and extended laterally to the south and west in the southwestern corner.

Resample #1B was collected to test the base of a new southerly extension of the excavation. Four resamples (#2B through #5B) were collected to retest the area where the five initial samples (#8 through #12) had contained the elevated total metals.

Results of the five resamples indicated total chromium, total lead, and total zinc were below concentrations proposed for remediation.

Based on visual observations made during the excavation and on the analytical results from soil samples, ENVIRON concluded that the excavation phase of the remediation had successfully removed soils containing paint residue.

3.5 On-Site Soil Treatment and Post-Treatment Soil Sampling

A proprietary process utilized for on-site soil treatment is described in *Remedial Action Plan for Soil Remediation* dated December 26, 1990 by SITE. The remedial action plan was verbally approved by Mr. Lawrence Seto of the Alameda County Health Care Services Agency and approval was confirmed in a site visit with Mr. Seto on January 11, 1991. On-site soil treatment was initiated on February 1, 1991 by SITE. SITE utilized their Ensol/Landtreat™ chemical fixation process consisting of the following steps:

- Soluble metals and sodium silicate were combined under alkaline conditions to produce metal hydroxide-silicate complexes;
- these complexes were then reacted with a chelating agent to form compounds of very low solubility; and
- the chelated metal hydroxide silicate complexes were further solidified by the addition of a highly adsorptive insoluble polysilicate to retain any excessive chelating agent.

Four samples of treated soil (K-526, K-527, K-528, and K-529) were collected by SITE on February 7, 1991 for bench-scale testing of the feasibility of the treatment process for on-site soils. The samples were submitted to Ensotech, Inc., a State-certified hazardous materials testing laboratory, for soluble metals analyses. Ensotech utilized the CAM WET procedure with a deionized water extraction (rather than sodium citrate) for determination of soluble silver, copper, lead, iron, chromium, nickel, cadmium, and zinc concentrations. Soluble levels of these metals were all well below the STLCS, in most cases below one-tenth the STLCS. Table 4 lists the post-treatment analytical results. Appendix D contains the analytical laboratory report for the post-treatment soil samples.

Based on the success of the bench-scale tests, approximately 150 cubic yards of soil was treated on-site by SITE to stabilize soluble metals. The treatment process was completed in late February 1991 and the treated soil was placed inside the on-site building for protection from rain and to await acceptance for off-site disposal.

3.6 Soil Segregation and Disposal

The upper six inches of soil which were removed from the hatched area shown on Figure 4 were likely to have had metals concentrations greater than the TTLC. This soil was placed in a plastic-covered stockpile on the asphalt-paved area near the northeast building corner. Soil removed from the southeast corner of the excavation area was also placed on this pile to be disposed off-site as hazardous waste at the U.S. Pollution Control, Inc. (USPCI) facility in Tooele County, Utah. Copies of the USPCI Waste Profile Sheet, the manifests which accompanied the waste upon transport, and the USPCI Certificates of Disposal are included in Appendix E.

The upper six inches of soil was also removed from perimeter areas outside of the area designated on Figure 4 as having metals concentrations likely greater than the TTLC. This soil was stockpiled separately on the asphalt-paved area west of the building near its northwest corner because various treatment and disposal options were being considered. This soil was eventually disposed at the USPCI facility in Utah along with the soil having metals concentrations likely greater than the TTLC. Copies of the USPCI Waste Profile Sheet, the manifests which accompanied the soil, and the USPCI Certificates of Disposal are included in Appendix E.

ENVIRON estimated the volume of stockpiled soil which was removed from the upper six inches of the central excavation area (metals concentrations likely greater than the TTLC) to be approximately 60 cubic yards. ENVIRON estimated the volume of stockpiled soil which was removed from the upper six inches of the perimeter excavation areas to be approximately 39 cubic yards. Based on shipment manifests, it appears that these soils were transported to USPCI in eight loads of an estimated 18 cubic yards each (total=144 cubic yards). The landfill received the soil and provided net weights of each load (on the Certificates of Disposal) which total 305,620 lbs (152.8 tons). Using a

conversion of 1.5 tons per cubic yard of soil and the net weight of the disposed soil, the total volume of soil disposed at USPCI is estimated at 102 cubic yards. This volume closely matches the sum of the estimates (99 cubic yards) ENVIRON made from the stockpiles. The discrepancy between these estimates and the 144 cubic yard estimate based on the shipment manifests is likely due to an overestimate of the quantity in each shipment load.

The majority of the soil removed from the excavation had metals concentrations likely greater than ten times the STLC, but below the TTLC. This soil was stockpiled on the asphalt-paved area along the northerly property boundary opposite the building office prior to on-site treatment by SITE. After treatment, this soil was disposed of off-site at the Forward, Inc. landfill in Stockton, California. Copies of the Forward, Inc. Waste Characterization and Soil Description Forms, the (non-hazardous) manifests which accompanied the waste upon transport, and the Forward, Inc. Landfill waste acceptance receipts are included in Appendix F.

The soil from the underground tank excavation which had been previously aerated, as well as that from the additional northerly extension of the underground tank excavation, was stockpiled on the northwest corner of the asphalt-paved parking area (see Section 4). This soil was treated by SITE and disposed of off-site with other soil treated for metals at the Forward, Inc. Landfill in Stockton, California. Copies of the Forward, Inc. Waste Characterization and Soil Description Forms, the (non-hazardous) manifests which accompanied the soil upon transport and the Forward, Inc. Landfill waste acceptance receipts are included in Appendix F.

ENVIRON estimated the volume of stockpiled soil which was treated on-site for metals by SITE to be approximately 163 cubic yards. ENVIRON estimated the total volume of soil removed from the underground tank excavation (including the tank contents) which was aerated and treated by SITE to be approximately 30 cubic yards. Thus, the total volume sent to Forward was estimated to be 193 cubic yards. Based on shipment receipts, these soils were transported to Forward in 17 loads of an estimated 20 cubic yards each (total=340 cubic yards). No weights were recorded for the transported

soil. Discrepancies in these quantities are likely due to underestimates of the actual volume of stockpiled soils and overestimates of the actual quantities in shipment loads.

3.7 Excavation Backfill

Due to extremely soft and saturated soil conditions at the base of the excavation, approximately one to two feet of imported crushed rock was placed in the excavation prior to placement and compaction of the imported fill soil. The imported soil was placed in six to eight inch thick lifts and compacted by rolling with the backhoe. SITE placed a total of approximately 150 cubic yards of crushed rock in the excavation. An additional approximate 150 cubic yards of class II aggregate base was imported and placed as compacted fill in the excavation area between August 26 and 28, 1991. Because the fill thickness was generally less than three feet and because this was a non-structural area, no density testing was performed on the fill. Finished grade very closely matched the original grade, with slight sloping to enhance runoff away from the site.

4.0 CORRUGATED PIPE EXCAVATION

On January 17 and 24, 1991, during excavation for the soils containing paint residue remediation, a corrugated metal drain pipe (culvert) was partially exposed parallel and adjacent to the Southern Pacific Transportation Company (SPTCo) railroad tracks. This drain pipe was on SPTCo property. Several small, deeper areas of the excavation adjacent to the pipe contained ground water and a black viscous oil floating on top. Furthermore, the oil was observed to be slowly seeping out of corroded holes and seams of the metal pipe. SPTCo was notified of the presence of the metal drain pipe and floating oil because of the oil's unknown origin and because the pipe was located on railroad property.

Overnight rain on February 1 and 4, 1991 nearly filled the excavation between the building and the railroad tracks. Black oil, which had been concentrated in several small puddles, because of wind, was collecting along the northerly perimeter of the excavation. ENVIRON collected a sample of this oil on the evening of February 4, 1991 and submitted it to Curtis & Tompkins, Ltd. for overnight analysis by EPA Test Method 8080 for PCBs. Aroclor 1254 (a PCB) was detected at a concentration of 2.0 mg/kg in the floating oil sample. This result immediately was reported to SPTCo.

SPTCo, in conjunction with SP Environmental Systems, Inc., and SITE (contracted separately by SPTCo) initiated their own separate removal of surface water, soil, and the metal drain pipe. Activities associated with this removal were detailed in *Southern Pacific Transportation Company Adjacent to Curoco Property, 536 Cleveland Street, Albany, California* dated March 28, 1991 by SP Environmental Systems, Inc. Approximately 36 cubic yards of soil and pipe debris were removed from the site and disposed at the Chemical Waste Management, Inc. facility at Kettleman Hills, California.

ENVIRON concluded that the corrugated metal pipe had been the source of the floating hydrocarbons which were observed and sampled in the shallow boreholes during the initial field investigation at the site. These hydrocarbons had previously been identified as heavy hydrocarbons.

5.0 UNDERGROUND STORAGE TANK REMOVAL AND SOIL EXCAVATION

5.1 Underground Tank Removal and Initial Sampling

On May 25, 1990, a 550 gallon underground tank formerly used to store gasoline was excavated and removed from the Curoco facility. Tank excavation and removal were performed by R.S. Eagan & Co., who utilized H & H Ship Service Co. to haul away the tank, its liquid contents, and to destroy the tank and dispose of the liquid contents. A Case 580K backhoe was used to excavate and remove the tank. Figure 5 depicts the former tank location as well as soil and ground water sampling locations, excavation limits, stockpile locations, and various other site features.

ENVIRON staff and Mr. Dennis Rivers, Lieutenant with the Albany Fire Department, observed the excavation to expose the tank. Upon initial excavation in the area where the tank was believed to be located, a 2.5-inch diameter plastic sewer line was ruptured at a depth of 2 feet, and the job was temporarily shut down until the spilled sewage was cleaned up and pipe repaired. Additional excavation approximately 10 feet to the north located and exposed the storage tank.

The tank was of steel construction and its upper surface was approximately 4 feet below the surface. A 1.75-inch diameter steel product line and smaller diameter vent line were removed and the top of the tank was cut open to allow access to the tank's contents. An H & H Ship Service Co. vacuum truck was used to remove the liquid contents from the opened tank. A copy of the manifest which accompanied the approximately 200 gallons of liquid waste to H & H Ship Service Co. for recycling is included in Appendix G.

After chaining the tank to the backhoe bucket, the tank was lifted out of the excavation at 12:00 p.m. and placed on a visqueen-covered paved area nearby. Its

contents, consisting of approximately 1.4 cubic yards of wet fill sand, were emptied onto the visqueen pending sampling and analysis.

ENVIRON observed that the tank was originally oriented with its long dimension running east-west and that it measured 6 feet 8 inches long by 3 feet 9 inches in diameter. Upon removal from the excavation, two large holes (approximately 3 inches in diameter) and approximately ten smaller holes (up to 1/4 inch diameter) resulting from corrosion were noted in the tank's bottom. In addition, the tank's midseam had apparently split along the bottom due to corrosion. A distinct hydrocarbon odor was noted in the work area and a slight hydrocarbon sheen was observed on ground water which seeped into the approximately 7.75-foot deep excavation. The tank was inerted with dry ice and was placed on a flat bed truck for transport to H & H Ship Service Co. for destruction. A copy of the manifest which accompanied the tank is provided in Appendix G.

An organic vapor analyzer (OVA) and a photoionization detector (PID) were utilized to screen samples from the sand which had been in the tank, the spoils removed from above and around the tank during excavation, and the soil from the excavation sidewall. The field instrument results are reported in Table 5.

At approximately 1:45 p.m. on May 25, 1990, Mr. Lawrence Seto of Alameda County Health Care Services Agency arrived to inspect the tank and the excavation, and to observe the soil and ground water sampling. Ground water which had seeped into the excavation stood at a depth of approximately 5 feet below the ground surface at the time of sampling (beginning at 1:55 PM). Samples intended for volatile organics analysis and aromatic hydrocarbons were collected by entering the excavation, submerging a capped 1-liter amber bottle below the surface, removing the cap to allow water from below the surface to fill the bottle, then recapping the bottle, lifting it above the water's surface, and transferring to the 40 milliliter sample bottles. The samples intended for extractable hydrocarbon analysis were collected from below the water surface in the 1 liter bottles. The samples were labeled and placed in an iced cooler for transport to the laboratory.

Two soil samples were collected from the tank excavation sidewalls and one soil sample was collected from beneath the product pipe running between the tank and the

building, as required by the Regional Water Quality Control Board and Alameda Health Care Services Agency. Additionally, ENVIRON collected a sample of the fill sand contained in the tank and a soil sample from approximately 2 feet west of the tank excavation at 3 feet depth. The soil samples were collected by exposing fresh soil on the excavation sidewalls or under the pipeline, hand driving a sampler containing a 2-inch diameter by 6-inch long brass sample tube into the soil, then removing the sampler and brass tube containing the soil, sealing with Teflon™ film, plastic cap, and adhesiveness silicon tape. The samples were labeled and placed into an iced cooler for transport to the laboratory under strict chain-of-custody.

After analytical sampling, workers from R.S. Eagan & Co. barricaded the excavation, delineated it with plastic flagging, and covered the spoils pile and tank content piles with visqueen. ENVIRON estimated the volume of stockpiled spoils to be approximately 14.5 cubic yards and the volume of fill sand contained within the tank to be approximately 1.4 cubic yards. The excavation was left open pending laboratory results. The product pipeline was left in place and it was agreed with Mr. Seto that it would be cut off where exposed and washed with water prior to backfilling the excavation.

Laboratory analysis was performed by BC Analytical in Emeryville, California, a State-certified hazardous materials testing laboratory. The analytical program consisted of analysis of all soil, sand, and water samples for purgeable aromatics (benzene, toluene, ethylbenzene, and xylenes) by EPA Test Method 8020, analysis of four soil samples for total petroleum hydrocarbons by EPA Test Method 418.1, analysis of the soil sample from the north pit wall for total lead and organic lead by EPA Test Method 6010 and the LUFT Field Manual method, respectively, and analysis of the pit water and tank contents (sand) samples for total volatile hydrocarbons (as gasoline) and total extractable hydrocarbons (as diesel), both by EPA Test Method 8015 Modified. Analytical results are displayed in Table 6. Complete laboratory reports and copies of the chain-of-custody forms are provided in Appendix H.

5.2 Soil Aeration

Stockpiled soils from the tank excavation and the tank contents were spread on the asphalt-paved area behind the on-site building (see Figure 5) for aeration of petroleum hydrocarbons. These soils were periodically turned with a rubber-tired loader to expose fresh soil. On July 23, 1990, ENVIRON collected three aerated soil samples (A, B, and C; see Figure 5) for laboratory analysis of total petroleum hydrocarbons by EPA Test Method 8015. Analytical results are summarized in Table 6. Because of detectable heavier hydrocarbon fractions in the samples (especially in a sample collected from the former tank contents), additional aeration was performed.

The aerated soil was resampled on August 17, 1990. Two samples (D and E; see Figure 5) were collected from the aeration pile near where previous samples (A, B, and C) had laboratory-detected petroleum hydrocarbons. These samples were analyzed by EPA Test Method 8015 modified for volatile and extractable hydrocarbons. Analytical results are also included in Table 6 and the laboratory reports are provided in Appendix H.

5.3 Excavation Extension

Because the soil sample from the north wall of the original excavation contained detectable hydrocarbons, additional excavation to the north was recommended. On August 17, 1990, ENVIRON staff observed additional soil excavation on the north side of the original tank excavation. Excavation with a backhoe continued an additional 3 feet northward. Soils were stockpiled in the northwest corner of the paved area pending laboratory analysis results. ENVIRON estimated the volume of soil removed during this excavation extension to be approximately 6.5 cubic yards. An organic vapor monitor (OVM) was used to monitor soil vapors from samples collected at specific footages of additional lateral excavation. The field instrument results are reported in Table 5.

A confirmatory laboratory soil sample (F; see Figure 5) was collected after completing the 3 feet of excavation extension. Table 6 lists the analytical results, and the laboratory report is included in Appendix H.

Total petroleum hydrocarbons and aromatic hydrocarbons were not detected in any of the initial soil samples from the south and west excavation sidewall.

5.4 Hand Auger Borings and Soil Samples

Laboratory analysis of soil sample F indicated that the northerly limits of hydrocarbons in soils had not been reached, so additional soil samples were recommended. On August 30, 1990, ENVIRON drilled three hand auger borings at distances of 5, 10, and 15 feet north of the existing edge of the tank excavation. One soil sample was collected from a depth of two feet in each boring (G-2, H-2, and I-2; see Figure 5). Sample G-2 was analyzed by EPA Test Method 418.1 for total petroleum hydrocarbons. The other two samples were held at the laboratory for analysis only if hydrocarbons were detected in the first sample. Analytical results are listed in Table 6 and the laboratory report is included in Appendix H.

5.5 Additional Excavation and Backfill, Soil Treatment, and Disposal

Petroleum hydrocarbons were not detected above 50 mg/kg (the detection limit) in soil sample G-2, collected from the hand auger boring. A proposal to excavate laterally northward up to this sample location was included in SITE's *Remedial Action Plan for Soil Remediation*, which was approved by Alameda County. Additional excavation, as depicted by the hatched area north of the sample F location on Figure 5, was performed to enlarge the tank excavation northward to the location of soil sample G-2. The additional excavation was approximately 4.5 feet deep. ENVIRON estimated the volume of soil removed during this additional excavation to be approximately 7.5 cubic yards. The excavated soil was placed on the asphalt pavement for later on-site treatment for petroleum hydrocarbons. The excavation was then backfilled with imported fill. On February 26, 1991, a portion of the new backfill was removed to expose the northerly face of the enlarged excavation. ENVIRON collected one soil sample from the northerly sidewall (N-extra @ 2½') for analysis of total petroleum hydrocarbons by EPA Test Method 418.1.

The stockpiled soil which had previously been aerated and the soil which had been removed during the two phases of additional northerly excavation was treated by SITE for petroleum hydrocarbons along with that treated for metals beginning on February 1, 1991. The estimated total volume of this soil was approximately 30 cubic yards. After treatment, this soil was stockpiled and then disposed off-site at the Forward, Inc. Landfill in Stockton, California. Copies of the (non-hazardous) manifests which accompanied the soil upon transport and the Forward, Inc. Landfill waste acceptance receipts are included in Appendix F.

5.6 Discussion of Results - Underground Storage Tank Removal

Soil samples were collected from the south, the north, and 2 feet into the west sidewalls of the initial excavation to remove the underground storage tank. A soil sample was also collected beneath the product pipeline. Petroleum hydrocarbons were detected at 50 mg/kg in the soil sample from the north excavation sidewall, but were less than 50 mg/kg (not detected) in the other samples. Aromatic hydrocarbons (benzene, toluene, ethylbenzene, or xylenes [BTEX]) were not detected above the laboratory detection limit of 0.1 mg/kg in any soil sample from the excavation sidewalls or from beneath the product pipeline. After two series of additional excavations and sampling on the north sidewall, residual petroleum hydrocarbons remaining were at a concentration of 16 mg/kg in sample N-extra @ 2½'.

Samples of ground water which entered the excavation after tank removal contained 3.5 mg/l of C-4 to C-12 petroleum hydrocarbons and 6.5 mg/l of C-13 to C-25 petroleum hydrocarbons. These hydrocarbon ranges typically correspond to gasoline. No heavier hydrocarbons (typical of diesel fuel) or aromatic hydrocarbons (BTEX) were detected in the excavation ground water sample.

Total lead was measured at 10 mg/kg in the soil sample from the north wall of the excavation. As established from sampling for remediation of the soils containing paint residue, this concentration is in the range of concentrations typical of background conditions.

Due to the nearby industrial activity and interstate highways, the shallow ground water in this area very likely contains dissolved lead and petroleum hydrocarbons. The ground water is also likely to be slightly saline and have limited beneficial use because of the site's proximity to the bay.** Soil and ground water sampling have confirmed that no aromatic hydrocarbons are present in soil or ground water at the former tank location. The site's clayey soils will act to inhibit the spread of residual hydrocarbons which might be present in or near the tank pit. ENVIRON therefore does not recommend conducting any further investigation or remediation.

**This conclusion was substantiated by the Regional Water Quality Control Board in a January 15, 1986 letter (File No. 2199.9227[PCM]) to Western Forge and Flange, the facility adjacent to the Curoco facility: "The shallow ground water does contain dissolved metals, including lead, above established drinking water action levels. Oil and grease have also been detected in the groundwater. However, the shallow groundwater in this area is slightly saline, is high in Total Dissolved Solids and is therefore of limited beneficial use. Furthermore, the aquifer is situated in low permeability clayey soils which limit the spread of the pollutants in question in the groundwater. Based on these considerations, Regional Board staff do not believe that a costly groundwater cleanup program is warranted for this site."

TABLE 1

Total Petroleum Hydrocarbon Analytical Results, Ground Water Samples Collected from Shallow Boreholes
Curoco Steel Systems
Albany, California

Sample Number	Date	Sample Type	Total Fuel Hydrocarbons ¹ (mg/l)	Fuel Characterization (Qualitative)
CS11FP	2/20/90	petroleum ²	50% ² 50% ²	Diesel Oil
CS4AFP	2/21/90	aqueous	5	Diesel
CS5AFP	2/21/90	aqueous	21	Stoddard
CS8AFP	2/21/90	aqueous	<1	-
CS10AFP	2/21/90	aqueous	<1	-
CS11BFP	2/21/90	aqueous	49	Jet Fuel
CS12AFP	2/21/90	aqueous	<1	-
CS13AFP	2/21/90	aqueous	<1	-
CS14AFP	2/21/90	aqueous	<1	-
CS15AFP	2/21/90	aqueous	<1	-
BG-1	4/12/90	aqueous	<1	-

¹EPA Test Method 8015 Modified used for analysis.

²Quantification of this petroleum sample reported in percent of total.

TABLE 2

**Background Metals Concentrations
Curoco Steel Systems
Albany, California**

Sample Number	Date	Metal Concentration (mg/kg)		
		Total Chromium	Lead	Zinc
BG-1 @ 0'	4-12-90	29	240	250
BG-2 @ 0'	4-12-90	46	80	120
Average Background at Ground Surface (0')		37	160	185

Sample Number	Date	Metal Concentration (mg/kg)		
		Total Chromium	Lead	Zinc
BG-1 @ 1'	4-12-90	30	15	270
BG-2 @ 1'	4-12-90	32	67	97
Average Background at 1 Foot Depth		31	41	183.5

Sample Number	Date	Metal Concentration (mg/kg)		
		Total Chromium	Lead	Zinc
BG-1 @ 2'	4-12-90	22	17	36
BG-2 @ 2'	4-12-90	37	45	79
Average Background at 2 Feet Depth		29.5	31	57.5

Sample Number	Date	Metal Concentration (mg/kg)		
		Total Chromium	Lead	Zinc
BG-1 @ 4'	4-12-90	27	<6 ¹	24
BG-2 @ 4'	4-12-90	28	18	42
Average Background at 4 Feet Depth		27.5	12	33

¹Laboratory detection limit was used in calculation of average.

TABLE 3

**Post-Excavation Soil Sample Analytical Results
Curoco Steel Systems
Albany, California**

Sample Number	Date	Total Metal Concentration (mg/kg)			Note
		Chromium	Lead	Zinc	
#1 @ 6"	1/14/91	12	3.9	44	Confirm hazardous soil removal
#2 @ 6"	1/14/91	41	57(4)	120	Confirm hazardous soil removal
#3 @ 6"	1/14/91	12	31	67	Confirm hazardous soil removal
#4 @ 6"	1/14/91	17	51(4)	96	Confirm hazardous soil removal
#5 @ 6"	1/14/91	13	41	76	Confirm hazardous soil removal
#6 @ 6"	1/16/91	26	32	77	Confirm hazardous soil removal
#7	1/18/91	49	44	200	S sidewall sample
#8	1/18/91	1,700	650(4)	3,900(4)	SW sidewall sample
#9	1/18/91	590	330(4)	1,600	SW bottom sample
#10	1/18/91	810	14,000(3,4)	4,000(4)	SW bottom sample
#11	1/18/91	210	150(4)	740	W sidewall sample
#12	1/18/91	480	280(4)	1,200	W sidewall sample
#13	1/18/91	12	49	42	E bottom sample
#14	1/18/91	8	82(4)	150	Central bottom sample
#15	1/18/91	40	71(4)	200	Central bottom sample
#16	1/18/91	32	82(4)	180	W sidewall sample
#17	1/18/91	12	62(4)	110	N bottom sample
#18	1/18/91	22	86(4)	340	N bottom sample
#19	1/18/91	11	68(4)	180	N bottom sample
#20	1/18/91	200	23	120	SE bottom sample
#1B	2/1/91	24	62(4)	67	Test additional S excavation
#2B	2/1/91	38	10	70	Retest #8
#3B	2/1/91	57	85(4)	200	Retest #9, #10
#4B	2/27/91	47	29	110	Retest #11
#5B	2/27/91	37	43	98	Retest #12
TTL (1)		2,500	1,000	5,000	
STLC (2)		560	5	250	

- (1) Total Threshold Limit Concentration (mg/kg)
- (2) Soluble Threshold Limit Concentration (mg/l)
- (3) Exceeds TTL
- (4) Exceeds 10 x STLC

TABLE 4

Post-Treatment Soil Sample Analytical Results
 Curoco Steel Systems
 Albany, California

Sample ¹ Number	Date	Soluble Metal Concentration (mg/l)							
		Silver	Copper	Lead	Iron	Chromium	Nickel	Cadmium	Zinc
K-526	2/7/91	<0.03	<0.002	<0.04	29	0.22	0.006	<0.002	1.84
K-527	2/7/91	<0.03	0.03	0.05	29	0.33	<0.005	<0.002	3.84
K-528	2/7/91	<0.03	>0.002	<0.04	21	0.15	<0.005	<0.002	1.37
K-529	2/7/91	<0.03	<0.002	<0.04	22	0.15	<0.005	<0.002	1.38
STLC ²		5.0	25	5.0	NL	560	20	1.0	250

¹ Samples collected by SITE

² Soluble Threshold Limit Concentration (mg/l)

NL-No level promulgated in California regulations.

TABLE 5

**Results of Field Instrument Monitoring of Soil Sample Vapors During
Underground Storage Tank Removal and Additional Soil Excavation
Curoco Steel Systems
Albany, California**

SAMPLE TYPE AND ORIGIN	DATE	OVA¹ (ppm)	PID² (ppm)	OVM³ (ppm⁴)
sand from tank contents	5/22/90	75	220	
spoils from tank excavation	5/22/90	20	25	
spoils from tank excavation	5/22/90	60	20	
soil from north sidewall @ 2 ft depth	5/22/90	30	5.9	
soil from 1.5 ft northward excavation	8/17/90			100
soil from 2.0 ft northward excavation	8/17/90			40
soil from 2.5-3.0 ft northward excavation	8/17/90			70

¹OVA - Organic Vapor Analyzer (flame ionization).

²PID - Photo Ionization Detector (photo ionization).

³OVM - Organic Vapor Monitor (photo ionization).

⁴ppm - parts per million.

TABLE 6

**Soil and Ground Water Sample Analytical Results,
Underground Storage Tank Removal
Curoco Steel Systems
Albany, California**

Sample Number	Sample Date	TPH by IR ⁵ (mg/kg)	TPH by GC ² -Volatile and Semivolatile			Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes (mg/kg)	Total Lead (mg/kg)	Organic Lead (mg/kg)
			C4 to C12 (mg/kg)	C12 to C25 (mg/kg)	C25 to C35 (mg/kg)						
South Wall @ 3'	5/25/90	<50				<0.1	<0.1	<0.1	<0.1		
North Wall @ 2'	5/25/90	50				<0.1	<0.1	<0.1	<0.1	10	<0.5
Pipeline @ 1½'	5/25/90	<50				<0.1	<0.1	<0.1	<0.1		
2' West @ 3'	5/25/90	<50				<0.1	<0.1	<0.1	<0.1		
Pit Water #1	5/25/90		3.5 ¹	6.5 ¹	<5.0 ¹	<0.003 ¹	<0.003 ¹	<0.0035 ¹	<0.012 ¹		
Tank Contents	7/23/90		250	500	<100	<1	<1	<1	1.1		
A: Tank Contents	7/23/90		1.1	80 ³							
B: Stockpile	7/23/90		0.1	<5 ³							
C: Stockpile	7/23/90		<0.1	<5 ³							
D: (Stockpile)	8/17/90		<0.1	<5							
E: (Tank Contents)	8/17/90		0.4	100 ⁴							
F (North Wall @ 2')	8/17/90	230				<0.005	<0.005	<0.005	<0.005		
G-2	8/30/90	<50									
H-2	8/30/90	sample held without analysis									
I-2	8/30/90	sample held without analysis									
N-extra @ 2½'	2/26/91	16									

¹Concentrations in mg/l (water sample).

²Total Petroleum Hydrocarbons by Gas Chromatograph

³C12 to C16 compounds

⁴C12 to C18 compounds

⁵Total Petroleum Hydrocarbons by Infrared Spectrometry



DIETRICH POST REORDER NO. 143862

ENVIRON

Counsel in Health and Environmental Science

Site Location Map
 Curoco Steel Systems
 536 Cleveland Avenue, Albany, California

Figure
1

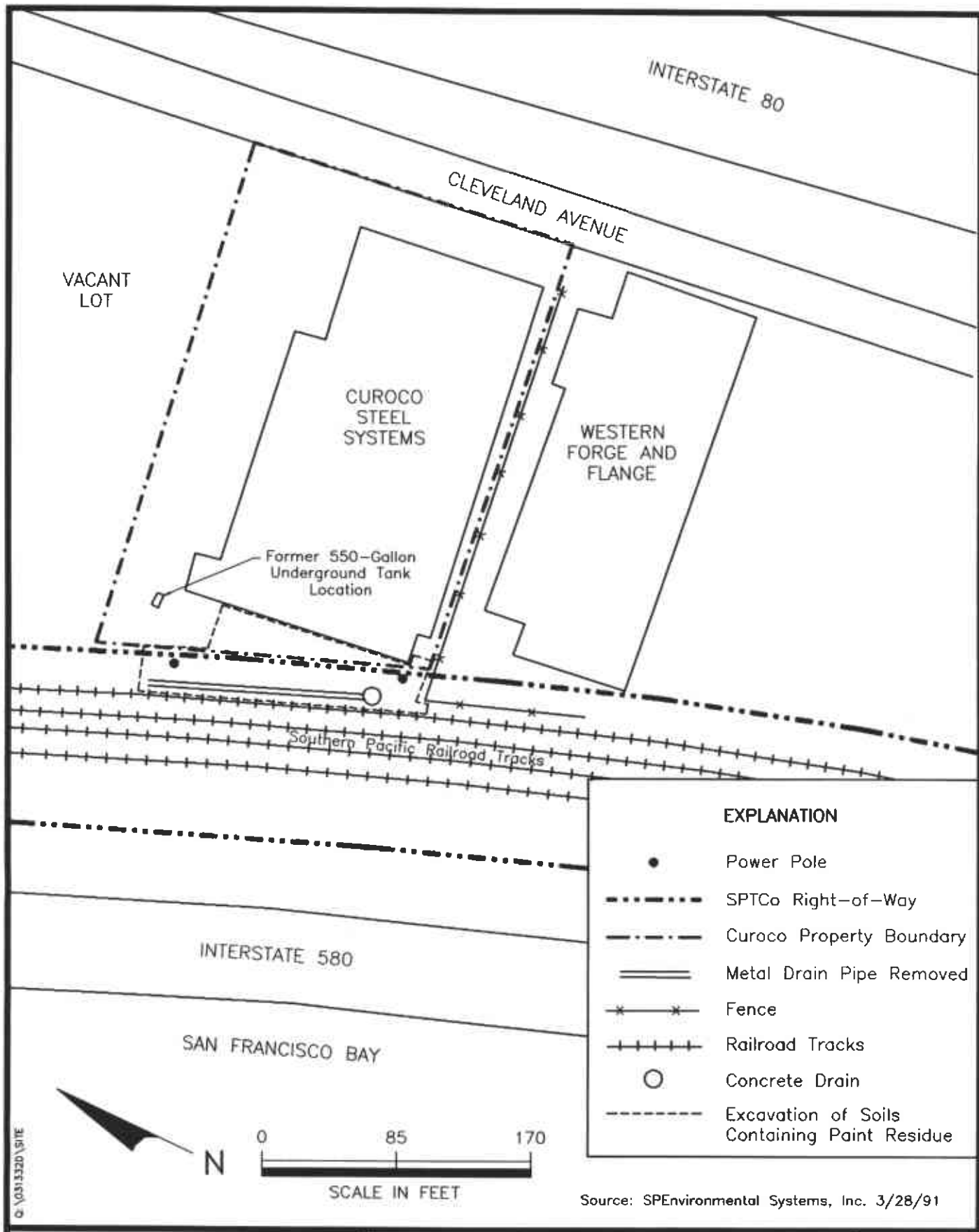
Drafter: DC

Date: 3/92

Contract Number: 03-1332D

Approved: **AES**

Revised:



ENVIRON

Counsel in Health and Environmental Science

Site Plan

Curoco Steel Systems
536 Cleveland Avenue
Albany, California

Figure

2

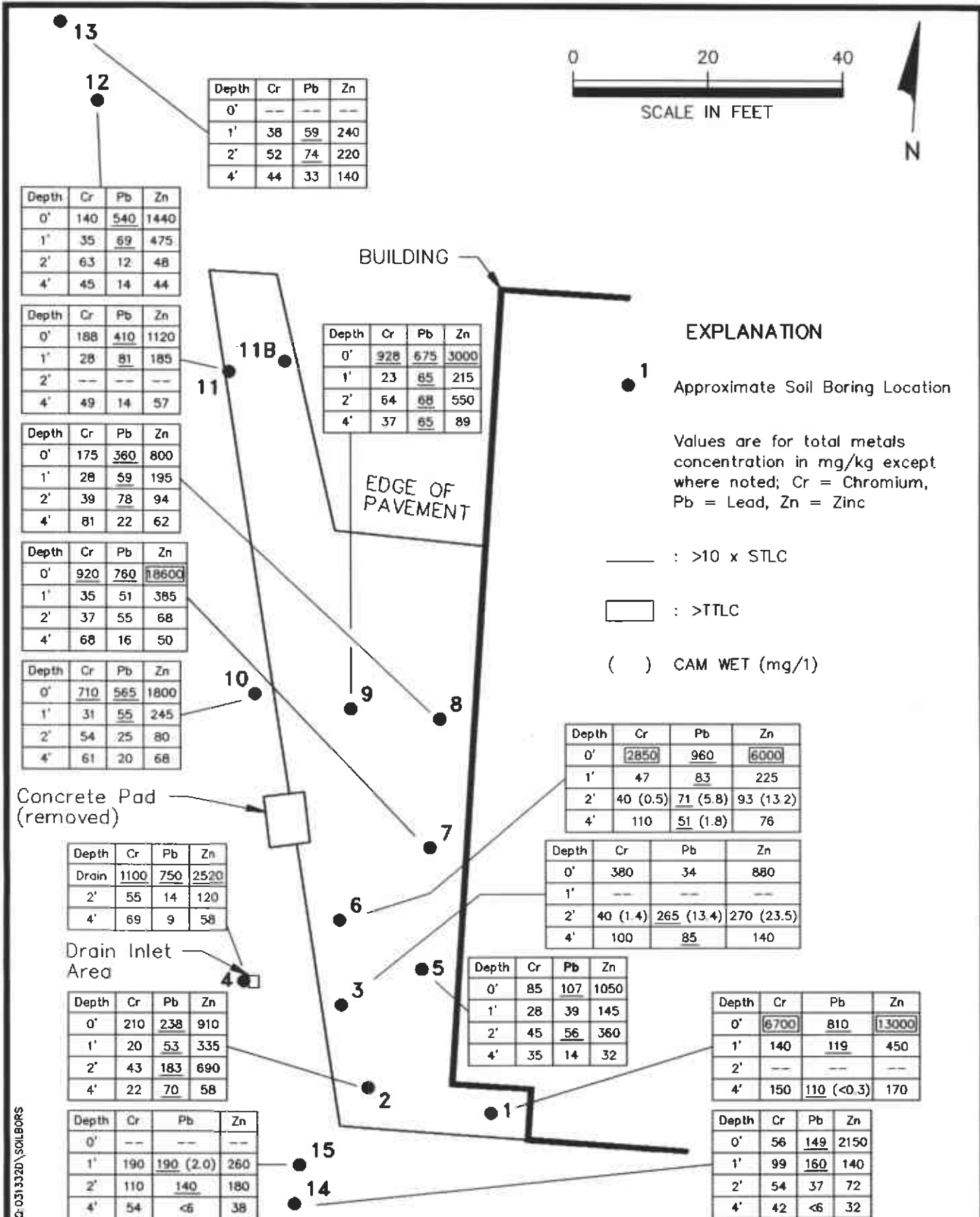
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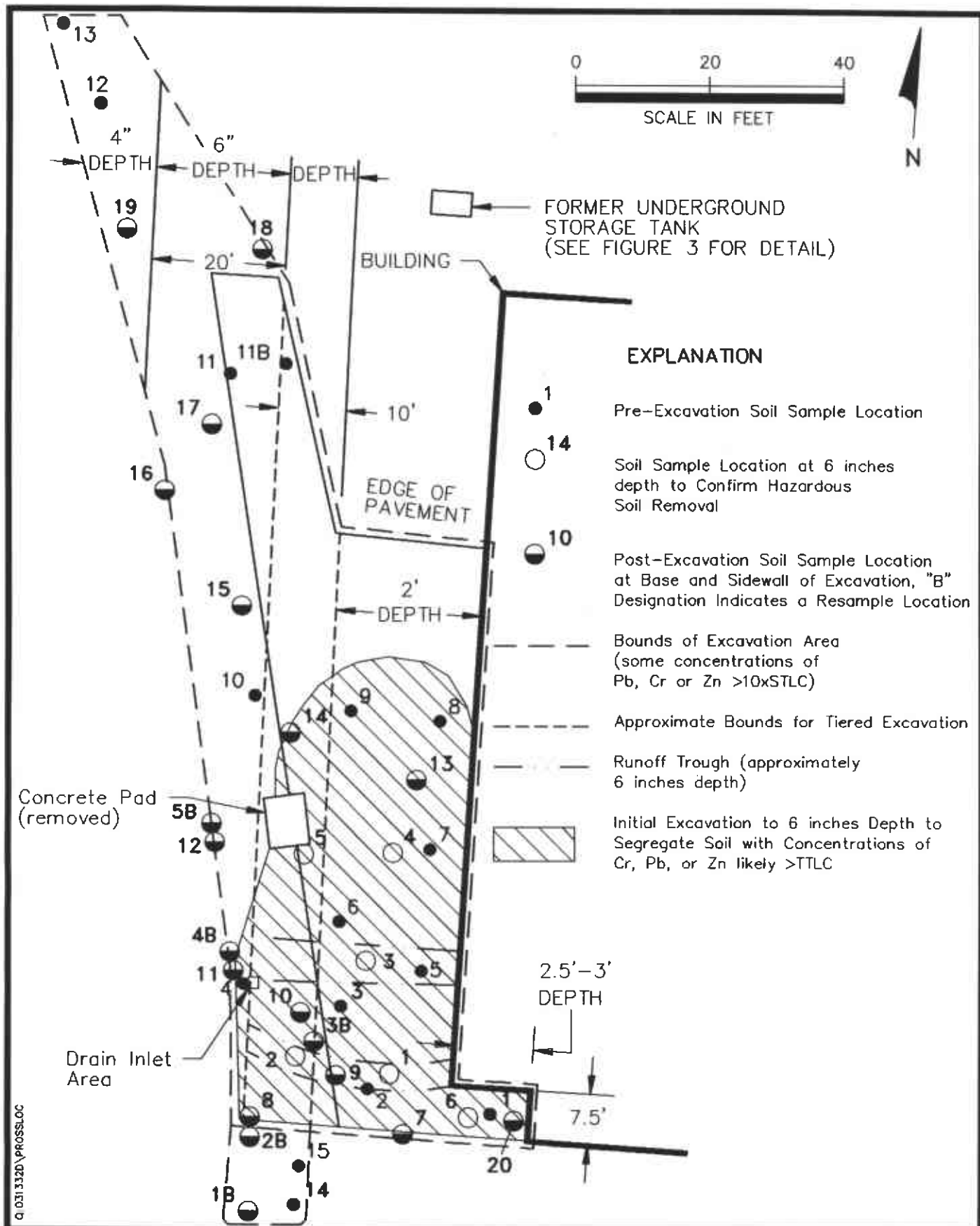
Contract Number: 03-1332D

Approved: **AES**

Revised:



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ENVIRON

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Limits of Excavation and Soil Sample Locations
 Remediation of Soils Containing Point Residue
 Curoco Steel Systems
 Albany, California

Figure

4

Drafter: DC

Date: 3/23/92

Contract Number: 03-1332D



Approved: **AES**

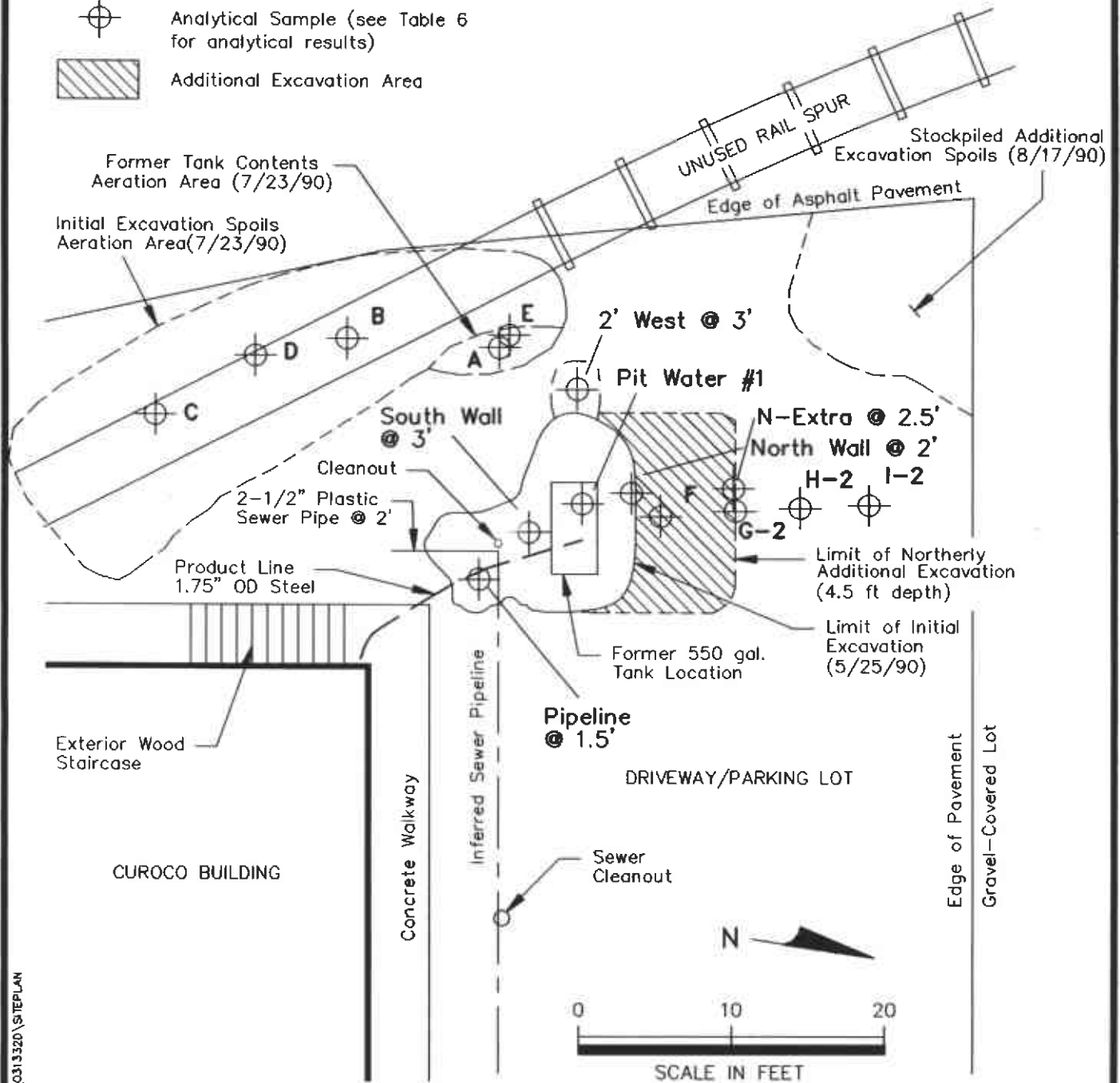
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EXPLANATION

-  Analytical Sample (see Table 6 for analytical results)
-  Additional Excavation Area



Q:\0313320\SITEPLAN

ENVIRON

Counsel in Health and Environmental Science

Sample Locations and Limits of Excavation
 Underground Storage Tank Removal
 Curoco Steel Systems
 Albany, California

Figure

5

Drafter: DC

Date: 3/23/92

Contract Number: 03-13320

Approved: **AES** Revised:

APPENDIX A

Site History From Map and Photo Review

APPENDIX A

From ENVIRON's historical map and aerial photo review, the site originally appeared to be an undeveloped low-lying area adjacent to and south of a small marsh formed at the mouth of Cerrito Creek. The earliest map, published in 1899 (survey data from 1892-1894), depicts the Southern Pacific Railroad tracks in their present day position west of the site. It is presumed that artificial road-base fill was imported during railroad construction, but it cannot be established when or if fill was placed on the site. No site development is inferred from maps published in 1915 (surveyed 1892-1894, revised 1914) or 1942 (aerial photography 1939, 1941), or from the earliest aerial photograph we inspected dated March, 1947.

The East Shore Highway (present day Cleveland Avenue) is first depicted on the 1942 map and the 1947 photograph. Hoffman Boulevard (present day Interstate 580) is not shown on the 1942 map, but is shown on the 1947 photograph. No development of either the north or south adjacent properties is shown in the 1947 photograph. In 1947 the site consisted of a grass-covered vacant lot with a single-lane unpaved driveway traversing the eastern part of the site. A small (\pm 25 ft by 40 ft) building is located in the center of the eastern half of the site in the 1953 photograph. The 1953 photograph also depicts construction of a building addition on the west side of two contiguous buildings on the property now occupied by Western Forge and Flange south of the subject site. In the 1959 photograph, the western two-thirds of the building currently occupied by Curoco is in place and the area immediately to the east might be in the initial phases of building construction as evidenced by possible footing excavations. Unidentifiable materials appear to be stored on the ground in the area between the building and the railroad tracks. New construction of present day Interstate 80 is shown in 1959, thereby rerouting traffic off Cleveland Avenue.

The photograph from 1969 shows the site, surrounding properties, and major roads much as they are today. A small square building or shed measuring approximately 25 feet by 25 feet is located in the area between the main building and railroad tracks. This shed

might have been used for materials testing in salt air (Ron Mayo, Telephone Communication, May 3, 1990). Unidentified materials and an apparent power boat are stored on the ground between the building and the railroad tracks. No evidence of soil staining in this area was observed on the photograph. Steam emissions from Western Forge and Flange are being carried northerly, over the Curoco site, in the 1969 photograph.

The photograph from 1977 continues to depict the small building near the railroad tracks, but the building is not present in the photograph from 1979. Aside from the miscellaneous material on the ground, no distinctive staining is visible on the soil behind the Curoco building in the 1977 and 1979 photographs. On the 1977 photograph, discolored soil (darkened) or perhaps ponded water is evident on soil between the Western Forge and Flange building and the railroad tracks, approximately 150 feet south of the Curoco property.

The photographs from 1980, 1983, 1985, and 1988 show the subject site and adjacent properties in their general present day conditions. Ponded water or soil staining is evident on the northwest corner of the Western Forge and Flange property, adjacent to Curoco, in the 1983 photograph. The 1985 photograph depicts several unidentifiable white objects on the ground adjacent to the west side of the Curoco building, and the 1988 photograph shows an area of lighter nonvegetated soil immediately adjacent to the railroad tracks which may be related to recent fill placement.

APPENDIX B

**Laboratory Analytical Reports and Chain-of-Custody Documentation for Soil
Samples Collected During Initial Investigation of Metals-Affected Soil**

Analytical Report

LOG NO: E90-02-602

Received: 20 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-602-1	CS6A4	20 FEB 90				
02-602-2	CS7A4	20 FEB 90				
02-602-3	CS8A4	20 FEB 90				
02-602-4	CS9A4	20 FEB 90				
02-602-5	CS12A4	20 FEB 90				
PARAMETER	02-602-1	02-602-2	02-602-3	02-602-4	02-602-5	
Chromium, mg/kg	110	68	81	37	45	
Lead, mg/kg	51	16	22	65	14	
Zinc, mg/kg	76	50	62	89	44	
Nitric Acid Digestion, Date	02.23.90	02.23.90	02.23.90	02.23.90	02.23.90	

Analytical Report

LOG NO: E90-02-602

Received: 20 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-602-6	CS7A2	20 FEB 90				
02-602-7	CS8A2	20 FEB 90				
02-602-8	CS9A2	20 FEB 90				
02-602-9	CS12A2	20 FEB 90				
02-602-10	CS11A4	20 FEB 90				
PARAMETER	02-602-6	02-602-7	02-602-8	02-602-9	02-602-10	
Chromium, mg/kg	37	39	64	63	49	
Lead, mg/kg	55	78	68	12	14	
Zinc, mg/kg	68	94	550	48	57	
Nitric Acid Digestion, Date	02.23.90	02.23.90	02.23.90	02.23.90	02.23.90	

Hedy J. Ficklin for
Sim D. Lessley, Ph.D., Laboratory Director



Analytical Report

LOG NO: E90-02-608

Received: 20 FEB 90

Reported: 23 FEB 90

Mr. Phil Fitzwater
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1132A

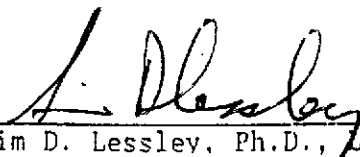
REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, PETROLEUM SAMPLES	DATE SAMPLED
02-608-1	CS11FP	20 FEB 90
PARAMETER	02-608-1	
TPH - Modified 8015		
Date Analyzed	02.20.90	
Dilution Factor, Times	1	
Total Fuel Hydrocarbons, Percent	50/50	
Fuel Characterization, .	DIESEL/OIL	
Other TPH - Modified 8015	---	

Verbal results were reported to you on 02.22.90. T. Blake

This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.


Sim D. Lesslev, Ph.D., Laboratory Director

ENVIRON

Counsel in Health and Environmental Science

CHAIN-of-CUSTODY FORM

Sheet 1 of 2
 5820 Shellmound St, Suite 700
 Emeryville, California 94608
 (415) 655-7400

PROJECT NAME: <u>Curco Steel</u>		COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>Total Chromium, Six Lead</u>										COMMENTS				
CASE NO.: <u>03-1332A</u>																				
ENVIRON SAMPLE ID.																				
-1	CS6A4	2/20	TLS	Soil	1	1														
-2	CS7A4	2/20	TLS	Soil	1	1														
-3	CS8A4	2/20	TLS	Soil	1	1														
-4	CS9A4	2/20	TLS	Soil	1	1														
-5	CS12A4	2/20	TLS	Soil	1	1														
-6	CS7A2	2/20	TLS	Soil	1	1														
-7	CS8A2	2/20	TLS	Soil	1	1														
-8	CS9A2	2/20	TLS	Soil	1	1														
-9	CS12A2	2/20	TLS	Soil	1	1														
TOTAL		X	X	X	9	9														

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Company: _____ Date: _____ Time: _____

[Signature] 2/20/90 1830 [Signature] BSA 2/20 1830

LOG # 960602

CHAIN-of-CUSTODY FORM

PROJECT NAME: <u>Curoco Steel</u>		COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES:										COMMENTS	
CASE NO.: <u>03-1332A</u>						Cd Pb Total Cr, Zn, Pb TPH changed per Phil Fitzwater request on 2/21/90											
ENVIRON SAMPLE ID.																	
-11	CS11FP	2/20	TL	Water	1	*		1									* Please have Tony Blake call Phil Fitzwater re: expedited analysis on this free product sample.
-10	CS11A4	2/20	TL	Soil	1			1									
TOTAL		X	X	X	2	X		1									

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Company: _____ Date: _____ Time: _____

Todd A. Steen 2/20/90 1830 [Signature] RLA 2/20 1830

Lot # 9002602

Analytical Report

LOG NO: E90-02-642

Received: 21 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-642-1	CS1A4	21 FEB 90				
02-642-2	CS2A4	21 FEB 90				
02-642-3	CS3A4	21 FEB 90				
02-642-4	CS4A2	21 FEB 90				
02-642-5	CS4A4	21 FEB 90				
PARAMETER	02-642-1	02-642-2	02-642-3	02-642-4	02-642-5	
Chromium, mg/kg	150	22	100	55	69	
Lead, mg/kg	110	70	85	14	9	
Zinc, mg/kg	170	58	140	120	58	
Nitric Acid Digestion, Date	03.01.90	03.01.90	03.01.90	03.01.90	03.01.90	

Analytical Report

LOG NO: E90-02-642

Received: 21 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-642-6	CS5A4	21 FEB 90				
02-642-7	CS10A2	21 FEB 90				
02-642-8	CS10A4	21 FEB 90				
02-642-9	CS13A2	21 FEB 90				
02-642-10	CS13A4	21 FEB 90				
PARAMETER		02-642-6	02-642-7	02-642-8	02-642-9	02-642-10
Chromium, mg/kg		35	54	61	52	44
Lead, mg/kg		14	25	20	74	33
Zinc, mg/kg		32	80	68	220	140
Nitric Acid Digestion, Date		03.01.90	03.01.90	03.01.90	02.28.90	02.28.90

Analytical Report

LOG NO: E90-02-642

Received: 21 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-642-11	CS14A1	21 FEB 90				
02-642-12	CS14A2	21 FEB 90				
02-642-13	CS14A4	21 FEB 90				
02-642-14	CS15A1	21 FEB 90				
02-642-15	CS15A2	21 FEB 90				
PARAMETER	02-642-11	02-642-12	02-642-13	02-642-14	02-642-15	
Chromium, mg/kg	99	54	42	190	110	
Lead, mg/kg	160	37	<6	190	140	
Zinc, mg/kg	140	72	32	260	180	
Nitric Acid Digestion, Date	02.28.90	02.28.90	02.28.90	02.28.90	02.28.90	



Analytical Report

LOG NO: E90-02-642

Received: 21 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
02-642-16	CS15A4	21 FEB 90	
02-642-17	CS13A1	21 FEB 90	
PARAMETER		02-642-16	02-642-17
Chromium, mg/kg		54	38
Lead, mg/kg		<6	59
Zinc, mg/kg		38	240
Nitric Acid Digestion, Date		02.28.90	02.28.90



Analytical Report

LOG NO: E90-02-642

Received: 21 FEB 90

Reported: 07 MAR 90

Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

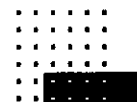
Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 5

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED				
02-642-18	CS4AFP	21 FEB 90				
02-642-19	CS5AFP	21 FEB 90				
02-642-20	CS8AFP	21 FEB 90				
02-642-21	CS10AFP	21 FEB 90				
02-642-22	CS11BFP	21 FEB 90				
PARAMETER	02-642-18	02-642-19	02-642-20	02-642-21	02-642-22	
TPH - Modified 8015						
Date Analyzed	02.24.90	02.24.90	02.24.90	02.24.90	02.24.90	
Dilution Factor, Times	1	1	1	1	1	
Total Fuel Hydrocarbons, mg/L	5	21	<1	<1	49	
Fuel Characterization, .	DIESEL	STODDARD	---	---	JET FUEL	
Other TPH - Modified 8015	---	---	---	---	---	

This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.



Analytical Report

LOG NO: E90-02-642

Received: 21 FEB 90

Reported: 07 MAR 90

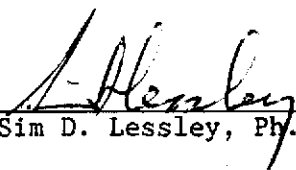
Mr. Todd Stein
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

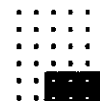
Project: 03-1332A

REPORT OF ANALYTICAL RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED			
02-642-23	CS12AFP	21 FEB 90			
02-642-24	CS13AFP	21 FEB 90			
02-642-25	CS14AFP	21 FEB 90			
02-642-26	CS15AFP	21 FEB 90			
PARAMETER		02-642-23	02-642-24	02-642-25	02-642-26
TPH - Modified 8015					
Date Analyzed		02.24.90	02.24.90	02.24.90	02.24.90
Dilution Factor, Times		1	1	1	1
Total Fuel Hydrocarbons, mg/L		<1	<1	<1	<1
Other TPH - Modified 8015		---	---	---	---


Sim D. Lessley, Ph.D., Laboratory Director



PROJECT NAME: <u>Curoco Steel</u>		COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <i>Asst. Manganese Zinc Lead</i>										COMMENTS		
CASE NO.: <u>03-1332A</u>						ENVIRON SAMPLE ID.												
-1	CS1A4	2/21	TLS	So.1	1	1												
-2	CS2A4				1	1												
-3	CS3A4				1	1												
-4	CS4A2				1	1												
-5	CS4A4				1	1												
-6	CS5A4				1	1												
-7	CS10A2				1	1												
-8	CS10A4				1	1												
-9	CS13A2				1	1												
TOTAL					9	9												

Relinquished by: Todd R. Stearns Date: 2/21/90 Time: 2:00 Received by: [Signature] Company: BCA Date: 2/21/90 Time: 2:00

LOG # 9002042

PROJECT NAME: <i>Culaco Steel</i>		COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <i>total mercury zinc lead</i>										COMMENTS		
GASE NO.: <i>03-1332A</i>																		
ENVIRON SAMPLE ID.																		
<i>-10</i>	<i>CS13A4</i>	<i>2/21/90</i>	<i>TS</i>	<i>Soil</i>	<i>1</i>													
<i>-11</i>	<i>CS14A1</i>																	
<i>-12</i>	<i>CS14A2</i>																	
<i>-13</i>	<i>CS14A4</i>																	
<i>-14</i>	<i>CS15A1</i>																	
<i>-15</i>	<i>CS15A2</i>																	
<i>-16</i>	<i>CS15A4</i>																	
<i>-17</i>	<i>CS13A1</i>	<i>TS</i>	<i>TS</i>	<i>TS</i>	<i>1</i>													
<i>-18</i>																		
TOTAL																		

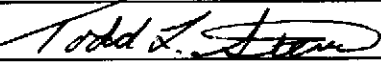

Relinquished by: *Todd A. [Signature]* Date: *2/21/90* Time: *2100*
 Received by: *[Signature]* Company: *BCA* Date: *2/21/90* Time: *2100*
Lot # 9002642

CHAIN OF CUSTODY RECORD

BC Log Number

4002642

Client name ENVIRON			Project or PO# 03-1332A			Analyses required									
Address 5820 Shellmound St Suite 700			Phone # 655-7400			<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hazardous sample Special handling required</div> </div>									
City, State, Zip Emeryville, CA 94608		Report attention -													
Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by T. STEIN	Number of containers	Remarks									
				Sample description											
-18	2/21/90			CS4 AFP	1	* Please specify hydrocarbon type									
-19				CS5 AFP	1										
-20				CS8 AFP	1										
-21				CS10 AFP	1										
-22				CS11 AFP	1										
-23				CS12 AFP	1										
-24				CS13 AFP	1										
-25				CS14 AFP	1										
-26				CS15 AFP	1										

Signature	Print Name	Company	Date	Time
Relinquished by 	Todd L Stein	ENVIRON	2/21/90	2:00
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory 	KATHI FLORES	BCA	2/21/90	2:00

BROWN AND CALDWELL LABORATORIES

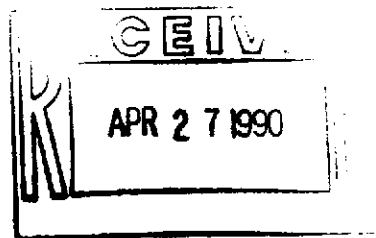
- 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300
- 373 South Fair Oaks Avenue, Pasadena, CA 91105 (818) 795-7553
- 1200 Pacific Avenue, Anaheim, CA 92805

Note:

Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil OT—Other PE—Petroleum

Analytical Report



LOG NO: E90-04-343

Received: 12 APR 90
Reported: 24 APR 90

Mr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
04-343-1	BG-1 @ 0'	12 APR 90				
04-343-2	BG-1 @ 1'	12 APR 90				
04-343-3	BG-1 @ 2'	12 APR 90				
04-343-4	BG-1 @ 4'	12 APR 90				
04-343-5	BG-2 @ 0'	12 APR 90				
PARAMETER	04-343-1	04-343-2	04-343-3	04-343-4	04-343-5	
Chromium, mg/kg	28	30	22	27	46	
Lead, mg/kg	240	15	17	<6	80	
Zinc, mg/kg	250	270	36	24	120	
Nitric Acid Digestion, Date	04.18.90	04.18.90	04.18.90	04.18.90	04.18.90	



Analytical Report

LOG NO: E90-04-343

Received: 12 APR 90

Reported: 24 APR 90

Mr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
04-343-6	BG-2 @ 1'	12 APR 90		
04-343-7	BG-2 @ 2'	12 APR 90		
04-343-8	BG-2 @ 4'	12 APR 90		
PARAMETER		04-343-6	04-343-7	04-343-8
Chromium, mg/kg		32	37	28
Lead, mg/kg		67	45	18
Zinc, mg/kg		97	79	42
Nitric Acid Digestion, Date		04.18.90	04.18.90	04.18.90

Analytical Report

LOG NO: E90-04-343

Received: 12 APR 90

Reported: 24 APR 90

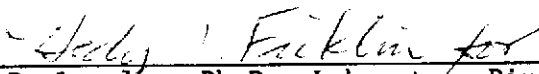
Mr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED	
04-343-9	BG-1	12 APR 90	
04-343-10	BG-1	12 APR 90	
PARAMETER	04-343-9	04-343-10	
Sample Held, Not Analyzed	---	HELD	
TPH - Modified 8015			
Date Analyzed	04.18.90	---	
Dilution Factor, Times	1	---	
Total Fuel Hydrocarbons, mg/L	<1	---	
Other TPH - Modified 8015	---	---	


Sim D. Lessley, Ph.D., Laboratory Director

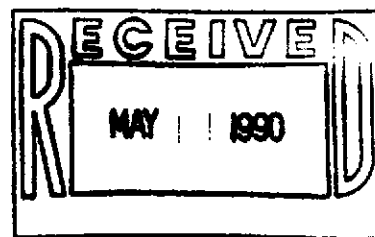
CHAIN-of-CUSTODY FORM

9004343

PROJECT NAME: <u>Curoco</u>		COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>Pb, Zn, Cr-total by 6010</u> <u>Pb 8015 modified - TPH *</u>										COMMENTS				
CASE NO.: <u>03-13320</u>																				
ENVIRON SAMPLE ID.																				
<u>BG-1@0'</u>		<u>4/12</u>	<u>PS</u> <u>BL</u>	<u>soil</u>	<u>1</u>	<u>X</u>														
<u>BG-1@1'</u>					<u>1</u>	<u>X</u>														
<u>BG-1@2'</u>					<u>1</u>	<u>X</u>														
<u>BG-1@4'</u>					<u>1</u>	<u>X</u>														
<u>BG-2@0'</u>					<u>1</u>	<u>X</u>														
<u>BG-2@1'</u>					<u>1</u>	<u>X</u>														
<u>BG-2@2'</u>					<u>1</u>	<u>X</u>														<u>* use same 1.0l bottle</u>
<u>BG-2@4'</u>				<u>↓</u>	<u>1</u>	<u>X</u>														<u>for CAM Wet of other</u>
<u>BG-1</u>		<u>↓</u>	<u>↓</u>	<u>water</u>	<u>6</u>		<u>X</u>	<u>X</u>												<u>samples that you</u>
TOTAL		<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>															<u>use for this Pb</u>
																				<u>(may be composited</u>
																				<u>2 or more liters)</u>

Relinquished by: Wendy Smith Date: 4/12/90 Time: 6:23pm Received by: [Signature] Company: AIC Date: 4/12/90 Time: 6:25

Analytical Report



LOG NO: E90-04-512

Received: 18 APR 90

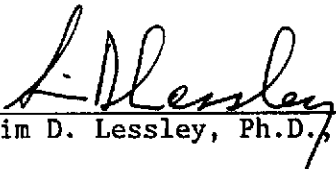
Reported: 03 MAY 90

Dr. Robert Ellgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, CALIF WASTE EXTRACT SAMPLES	DATE SAMPLED			
04-512-1	CS1A4 Relog of E9002642-1	21 FEB 90			
04-512-2	CS6A4 Relog of E9002602-1	20 FEB 90			
04-512-3	CS15A-1 Relog of E9002642-14	21 FEB 90			
04-512-4	WET Solution Relog of E9003343-10				
PARAMETER	04-512-1	04-512-2	04-512-3	04-512-4	
Lead, mg/L	<0.3	1.8	2.0	<0.3	
CAM WET Extraction, Date	04.30.90	04.30.90	04.30.90	---	
Date Filtered	---	---	---	04.30.90	


Sim D. Lessley, Ph.D., Laboratory Director



APPENDIX C

**Laboratory Analytical Reports and Chain-of-Custody Documentation
for Post-Excavation Soil Samples**

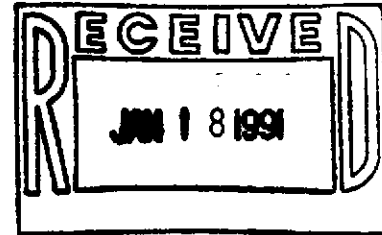


Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 01/14/91
DATE REPORTED: 01/15/91

LAB NUMBER: 102735



CLIENT: ENVIRON

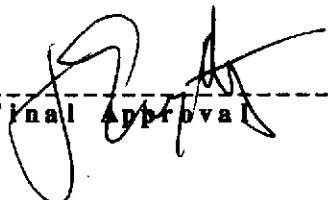
REPORT ON: 5 SOIL SAMPLES

PROJECT #: 03-1332D
LOCATION: CUROCO

RESULTS: SEE ATTACHED



QA/QS Approval



Final Approval

LABORATORY NUMBER: 102735-1
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #1 @ 6"

DATE RECEIVED: 01/14/91
 DATE ANALYZED: 01/15/91
 DATE REPORTED: 01/15/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	12	mg/Kg	2.5	EPA 7190
LEAD	3.9	mg/Kg	2.5	EPA 7420
ZINC	44	mg/Kg	2.5	EPA 7950

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	6	83
Lead	3	82
Zinc	9	90

LABORATORY NUMBER: 102735-2
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #2 @ 6"

DATE RECEIVED: 01/14/91
 DATE ANALYZED: 01/15/91
 DATE REPORTED: 01/15/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	41	mg / Kg	2.5	EPA 7190
LEAD	57	mg / Kg	2.5	EPA 7420
ZINC	120	mg / Kg	2.5	EPA 7950

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	6	83
Lead	3	82
Zinc	9	90

LABORATORY NUMBER: 102735-3
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #3 @ 6"

DATE RECEIVED: 01/14/91
 DATE ANALYZED: 01/15/91
 DATE REPORTED: 01/15/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	12	mg / Kg	2.5	EPA 7190
LEAD	31	mg / Kg	2.5	EPA 7420
ZINC	67	mg / Kg	2.5	EPA 7950

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	6	83
Lead	3	82
Zinc	9	90

LABORATORY NUMBER: 102735-4
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #4 @ 6"

DATE RECEIVED: 01/14/91
 DATE ANALYZED: 01/15/91
 DATE REPORTED: 01/15/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	17	mg / Kg	2.5	EPA 7190
LEAD	51	mg / Kg	2.5	EPA 7420
ZINC	96	mg / Kg	2.5	EPA 7950

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	6	83
Lead	3	82
Zinc	9	90

LABORATORY NUMBER: 102735-5
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #5 @ 6"

DATE RECEIVED: 01/14/91
 DATE ANALYZED: 01/15/91
 DATE REPORTED: 01/15/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	13	mg / Kg	2.5	EPA 7190
LEAD	41	mg / Kg	2.5	EPA 7420
ZINC	76	mg / Kg	2.5	EPA 7950

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	6	83
Lead	3	82
Zinc	9	90

CHAIN-of-CUSTODY FORM

PROJECT NAME: <u>Caroco</u>		COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>Total Pb, Zn, Cr</u>										COMMENTS	
CASE NO.: <u>03-1332D</u>																	
ENVIRON SAMPLE ID.																	
1	#1@6"	1/14	DS	Soil	1												
2	#2@6"																
3	#3@6"																
4	#4@6"																
5	#5@6"																
TOTAL					5												

*please send
report to
Robert Ellgas.*

*24 hour
turnaround
please*

Relinquished by: *Drew Smith* Date: 1-14-90 Time: 10:00 Received by: *[Signature]* Company: *Curtis Tupper* Date: 1-14-91 Time: 10:00

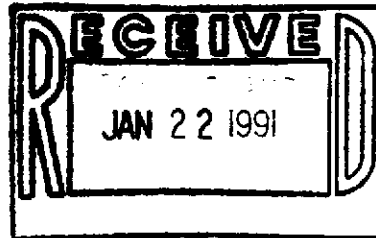


Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 01/16/91

DATE REPORTED: 01/17/91



LAB NUMBER: 102759

CLIENT: ENVIRON

REPORT ON: 1 SOIL SAMPLE

PROJECT #: 03-1332D

LOCATION: CUROCO

RESULTS: SEE ATTACHED

Heifertera

QA/QC Approval

[Signature]

Final Approval

LABORATORY NUMBER: 102759
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D
 LOCATION: CUROCO
 SAMPLE ID: #6 @ 6"

DATE RECEIVED: 01/16/91
 DATE ANALYZED: 01/17/91
 DATE REPORTED: 01/17/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	26	mg/Kg	0.5	EPA 6010
LEAD	32	mg/Kg	2.5	EPA 7420
ZINC	77	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	RECOVERY, %
CHROMIUM	3	116
LEAD	5	104
ZINC	4	120

PROJECT NAME: <u>Curoco</u> CASE NO.: <u>03-1332</u>	COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES:										COMMENTS		
					<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> ANALYSES: Trace Metals </div>												
ENVIRON SAMPLE ID.																	
#6@6"	1/16	DS	soil	1	X												24-hour turnaround please
TOTAL	X	X	X	1	1												

Relinquished by: [Signature] Date: 1-16-91 Time: 1:50pm

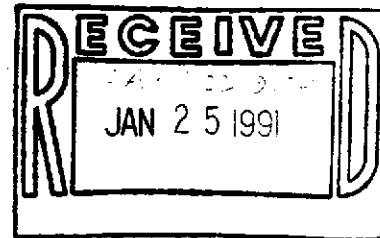
Received by: [Signature] Company: CERTS TRUST Date: 1-16-91 Time: 1:50pm



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 01/18/91
DATE REQUESTED: 01/21/91
DATE REPORTED: 01/22/91



LAB NUMBER: 102791

CLIENT: ENVIRON

REPORT ON: 13 SOIL SAMPLES

PROJECT ID: 03-1332D
LOCATION: CUROCO

RESULTS: SEE ATTACHED

Alu

QA/QC Approval

M. Brintem

Final Approval

LABORATORY NUMBER: 102791
CLIENT: ENVIRON
PROJECT ID: 03-1332D
LOCATION: CUROCO

DATE RECEIVED: 01/18/91
DATE REQUESTED: 01/21/91
DATE ANALYZED: 01/21/91
DATE REPORTED: 01/22/91

=====

ANALYSIS: CHROMIUM
ANALYSIS METHOD: EPA 7190

=====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102791-1	#7	49	mg / Kg	2.5
102791-2	#8	1,700	mg / Kg	2.5
102791-3	#9	590	mg / Kg	2.5
102791-4	#10	810	mg / Kg	2.5
102791-5	#11	210	mg / Kg	2.5
102791-6	#12	480	mg / Kg	2.5
102791-7	#13	12	mg / Kg	2.5
102791-8	#14	8.0	mg / Kg	2.5
102791-9	#15	40	mg / Kg	2.5
102791-10	#16	32	mg / Kg	2.5
102791-11	#17	12	mg / Kg	2.5
102791-12	#18	22	mg / Kg	2.5
102791-13	#19	11	mg / Kg	2.5

QA/QC SUMMARY

=====

RPD, % 6

RECOVERY, % 88

=====

LABORATORY NUMBER: 102791
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D
 LOCATION: CUROCO

DATE RECEIVED: 01/18/91
 DATE REQUESTED: 01/21/91
 DATE ANALYZED: 01/21/91
 DATE REPORTED: 01/22/91

=====

ANALYSIS: ZINC
 ANALYSIS METHOD: EPA 7950

=====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102791-1	#7	200	mg/Kg	2.5
102791-2	#8	3,900	mg/Kg	2.5
102791-3	#9	1,600	mg/Kg	2.5
102791-4	#10	4,000	mg/Kg	2.5
102791-5	#11	740	mg/Kg	2.5
102791-6	#12	1,200	mg/Kg	2.5
102791-7	#13	42	mg/Kg	2.5
102791-8	#14	150	mg/Kg	2.5
102791-9	#15	200	mg/Kg	2.5
102791-10	#16	180	mg/Kg	2.5
102791-11	#17	110	mg/Kg	2.5
102791-12	#18	340	mg/Kg	2.5
102791-13	#19	180	mg/Kg	2.5

QA/QC SUMMARY

=====

RPD, % 2
 RECOVERY, % 85

=====

Log # 102741

CHAIN-of-CUSTODY FORM

PROJECT NAME: <u>Curaco</u>		COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>Total Cd, Pb, Zn</u>										COMMENTS	
CASE NO.: <u>03-1332D</u>						1	2	3	4	5	6	7	8	9	10		11
ENVIRON SAMPLE ID.																	
1	#7	1/18	DS	soil	1	X											please hold until
2	#8					X											notification of
3	#9					X											turnaround time
4	#10					X											(1 week max)
5	#11					X											
6	#12					X											
7	#13					X											
8	#14					X											
9	#15					X											
TOTAL		X	X	X	9	9											

Relinquished by:

W. Newkirk

Date:

1-18-91

Time:

12:00

Received by:

Mary Prinstein

Company:

Curtis Tompkins

Date:

1/18/91

Time:

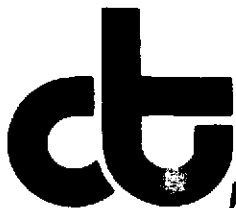
12:00

Log # 102791

CHAIN-of-CUSTODY FORM

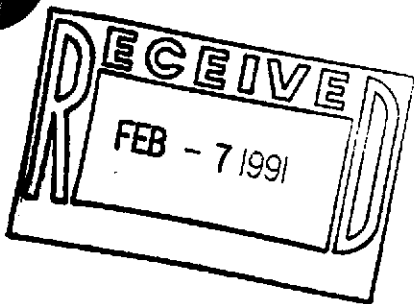
PROJECT NAME: <u>Curco</u>		COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>total Cr, Pb, Zn</u>										COMMENTS													
CASE NO.: <u>03-1332D</u>						ENVIRON SAMPLE ID.																							
10	#16	1/18/91	DS	soil	1	X																		please hold until					
11	#17	↓	↓	↓	↓	X																			notification of				
12	#18					X																							turnaround time
13	#19					X																							(max 1 week)
 						 	 	 	 	 																			
TOTAL		X	X	X	4	4																							

Relinquished by: Andrew Smith Date: 1-18-91 Time: 12:00 Received by: Mary Pruthi Company: Curco Date: 1/18/91 Time: 12:00



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DATE RECEIVED: 02/01/91
DATE REPORTED: 02/04/91

LAB NUMBER: 102899

CLIENT: ENVIRON

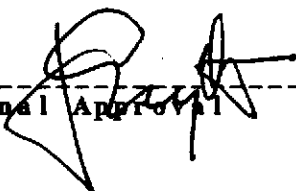
REPORT ON: 4 SOIL SAMPLES

PROJECT ID: 03-1332D
LOCATION: CUROCO

RESULTS: SEE ATTACHED



QA/QC Approval



Final Approval

LABORATORY NUMBER: 102899-1
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #20

DATE RECEIVED: 02/01/91
 DATE ANALYZED: 02/04/91
 DATE REPORTED: 02/04/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Chromium	200	mg/Kg	0.5	EPA 6010
Lead	23	mg/Kg	2.5	EPA 7420
Zinc	120	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	3	109
Lead	15	111
Zinc	<1	112

LABORATORY NUMBER: 102899-2
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #1B

DATE RECEIVED: 02/01/91
 DATE ANALYZED: 02/04/91
 DATE REPORTED: 02/04/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Chromium	24	mg/Kg	0.5	EPA 6010
Lead	62	mg/Kg	2.5	EPA 6010
Zinc	67	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	3	109
Lead	15	111
Zinc	<1	112

LABORATORY NUMBER: 102899-3
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #2B

DATE RECEIVED: 02/01/91
 DATE ANALYZED: 02/04/91
 DATE REPORTED: 02/04/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Chromium	38	mg / Kg	0.5	EPA 6010
Lead	10	mg / Kg	2.5	EPA 7420
Zinc	70	mg / Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	3	109
Lead	15	111
Zinc	<1	112

LABORATORY NUMBER: 102899-4
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D - CUROCO
 SAMPLE ID: #3B

DATE RECEIVED: 02/01/91
 DATE ANALYZED: 02/04/91
 DATE REPORTED: 02/04/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Chromium	57	mg/Kg	0.5	EPA 6010
Lead	85	mg/Kg	2.5	EPA 6010
Zinc	200	mg/Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	RECOVERY, %
Chromium	3	109
Lead	15	111
Zinc	<1	112

PROJECT NAME: _____ CASE NO.: _____	COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: Total Cr, Pb, Zn										COMMENTS		
ENVIRON SAMPLE ID. #20	2/1	DS	Soil	1	X												24-hour
#1B	↷	↷	↷	-	X												turnaround
#2B	↷	↷	↷	-	X												time phase
#3B	↷	↷	↷	-	X												
<div style="font-size: 4em; opacity: 0.5;">X</div>																	
				4	4												

please send
 results to
 Robert Ellgas

Relinquished by: Robert Ellgas

Date: 2-1-91

Time: 1:52pm

Received by: Thomas J. Wilson

Company: CIT Lab

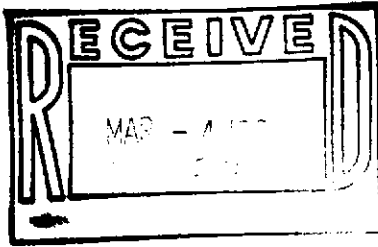
Date: 2/1/91

Time: 1:52



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DATE RECEIVED: 02/27/91
DATE REPORTED: 02/28/91

LAB NUMBER: 103089

CLIENT: ENVIRON

REPORT ON: 2 SOIL SAMPLES

PROJECT ID: 03-1332D
LOCATION: CUROCO

RESULTS: SEE ATTACHED



QA/QC Approval



Final Approval

Berkeley

Wilmington

Los Angeles

LABORATORY NUMBER: 103089-1
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D
 SAMPLE ID: #4 B

DATE RECEIVED: 02/27/91
 DATE ANALYZED: 02/28/91
 DATE REPORTED: 02/28/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	47	mg / Kg	0.5	EPA 6010
LEAD	29	mg / Kg	2.5	EPA 7420
ZINC	110	mg / Kg .	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	Recovery, %
CHROMIUM	<1	100
LEAD	12	84
ZINC	1	95

LABORATORY NUMBER: 103089-2
 CLIENT: ENVIRON
 PROJECT ID: 03-1332D
 SAMPLE ID: #5 B

DATE RECEIVED: 02/27/91
 DATE ANALYZED: 02/28/91
 DATE REPORTED: 02/28/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CHROMIUM	37	mg / Kg	0.5	EPA 6010
LEAD	43	mg / Kg	2.5	EPA 7420
ZINC	98	mg / Kg	0.5	EPA 6010

QA/QC SUMMARY

	RPD, %	Recovery, %
CHROMIUM	<1	100
LEAD	12	84
ZINC	1	95

ENVIRON

Counsel in Health and Environmental Science

CHAIN-of-CUSTODY FORM

103081

Sheet 1 of 1
5820 Shellmound St, Suite 700
Emeryville, California 94608
(415) 655-7400

PROJECT NAME: <u>Curoco</u>		COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <i>Total Pb, Zn, Cr</i>										COMMENTS		
CASE NO.: <u>03-1332B</u>																		
ENVIRON SAMPLE ID.																		
-1	#4B	2/27	DS	Soil	1	X												24 hour turn
-2	#5B	2/27	DS	Soil	1	X												around please
																		report results
																		to Dr. Robert
																		Ellgas
TOTAL		X	X	X														

Relinquished by: James Smith Date: 2/27/91 Time: 9:00 AM Received by: James Smith Company: CIT Date: 2/27 Time: 9:00

APPENDIX D

Laboratory Analytical Report for Post-Treatment Soil Samples

FEB-13-1991 10:59 FROM

TO

6559517 P.02

Analytical Report



State Approved Hazardous Waste Testing Laboratory - Certificate # 1219

Date Sampled 02-07-91 Date Analyzed 02-11-91
 Date Submitted 02-07-91 Lab. No. K-526, K-529

CLIENT : SITE INC. 1240 Bayshore Highway, Suite # 305 Burlingame, CA 94010
 SITE: CUROCCO STEEL Albany, California

SAMPLE :
 Sample #K-526 F# FC1, treated soil samples after using Ensol/landtreat
 Sample #K-527 F# FC2, treated soil samples after using Ensol/landtreat
 Sample #K-528 F# FC3 treated soil samples after using Ensol/landtreat
 Sample #K-529 F# FC4, treated soil samples after using Ensol/landtreat

* STLC (mg/L) (After Treatment)

Sample#	Ag	Cu	Pb	Fe	Cr	Ni	Cd	Zn
K-526	<0.03	<0.002	<0.04	29	0.22	0.006	<0.002	1.84
K-527	<0.03	0.03	0.05	29	0.33	<0.005	<0.002	3.84
K-528	<0.03	<0.002	<0.04	21	0.15	<0.005	<0.002	1.37
K-529	<0.03	<0.002	<0.04	22	0.15	<0.005	<0.002	1.38

STLC 5.0 STLC 560 STLC 250

* Standard STLC Procedure was used, except that deionized water was used instead of sodium Citrate buffer, for extraction.

[Signature]
 Ernest D. Lyklissa, Ph. D.
 Laboratory Director

[Signature]
 Analyst
 S. K. Lamba

APPENDIX E
USPCI Waste Profile Sheet, Hazardous Waste Manifests,
and USPCI Certificates of Disposal

A Summary of
Hazardous Waste

W99-1940

USPCI Sales Representative (Great West)

Purchase Order Number	Contract Number	USPCI Sales Representative (Great West)
I. Customer Information		
Customer Name: Curacao Steel		Technical Contact: Shawn Subramanian
Service For: 516 Cleveland Ave Alhambra, CA 94701		Phone: (415) 345-5300 FAX: 377-9571
Mailing Address: 2775 Leland Ave Redmond, CA 94741		General Contact: _____
Bill To: STEE - Eni 1240 Bayshore Hwy #305 Burlingame, CA 94010		Phone: _____ FAX: _____
		Waste Contact: _____
		Phone: _____ FAX: _____
		EPA ID Number: CH-111K0001STEL

II. Waste Generation Information

Waste Name: Metals contaminated Soil

Description of process producing the waste: Soil Remediation

Quantity of waste: Tons _____ Drums _____ Gallons _____ lbs _____ Cu Yd. Per Year One Time Only

III. Waste Properties

Physical State: Solid contains free liquid? yes no

Liquid pH range: <2 2-5 5-8 8-12 >12.5

Physical Parameters: flammable acids absorbents
 explosive reactive Bulk Density = _____
 strong odor asbestos Normality = _____
 infectious oxidizers Specific Gravity = _____
 PCB radioactive

Compliance for Thermal Destruction:
Heat Value (BTU/lb) _____ to _____ Total Bromine _____ to _____ %
Water Content (%) _____ to _____ Total Chlorine _____ to _____ %
Ash (%) _____ to _____ Total Fluorine _____ to _____ %
Vapor Pressure (mmHG) _____ @ STP Total Iodine _____ to _____ %
Viscosity (cps) _____ @ _____ F Total Sulfur _____ to _____ %

Waste Composition: _____ Range in %: _____
Total must equal at least 100%: _____

IV. EPA Waste Codes and Land Disposal Restrictions Standards:

Applicable EPA listed waste codes (F, K, U, or P): none

Land Disposal Restriction standards: check one:
 does not meet any applicable standards thallium > 130 mg/l meets standards for _____ and exceeds standards for _____
 treated to meet all applicable standards nickel > 134 mg/l unknown by customer no treatment standards apply
 meets all standards without treatment HOC > 1000 mg/l

Non-Regulated Waste:
 Non-Hazardous under RCRA or State Regulations Conditionally Exempt Small Quantity Generator 100-1000 kg/mo generator

V. D-Code Characteristic Waste

D-Code	Description	Actual Range	Actual Range
<input type="checkbox"/> D001	Ignitable (if p < 140° F)		
	High TOC (>10%) NWW		
	Low TOC (<10%) NWW		
	Ignitable liquids		
	Ignitable reactives		
	Oxidizers		
<input type="checkbox"/> D002	Corrosive (pHs 2 or ≥ 12.5)		
	Acid liquids		
	Alkaline liquids		
	Other corrosive liquids		
<input type="checkbox"/> D003	Reactive		
	Reactive sulfides		
	Explosives		
	Water reactives		
	Other reactives		
<input type="checkbox"/> D004	Arsenic	≤ 5.0 mg/l	
<input type="checkbox"/> D005	Barium	≥ 100 mg/l	
<input type="checkbox"/> D006	Cadmium	≥ 1.0 mg/l	
<input type="checkbox"/> D007	Chromium	≥ 5.0 mg/l	
<input type="checkbox"/> D008	Lead	≥ 5.0 mg/l	
	Lead acid batteries		
<input type="checkbox"/> D009	Mercury	≥ 0.2 mg/l	
	High mercury (>260 mg/kg) (organics)		
	High mercury (>260 mg/kg) (inorganics)		
	Inion residues		
	Low mercury (<260 mg/kg)		
<input type="checkbox"/> D010	Selenium	≥ 1.0 mg/l	
<input type="checkbox"/> D011	Silver	≥ 5.0 mg/l	
<input type="checkbox"/> D012	Endrin	≥ 0.02 mg/l	
<input type="checkbox"/> D013	Lindane	≥ 0.4 mg/l	
<input type="checkbox"/> D014	Methoxychlor	≥ 10.0 mg/l	
<input type="checkbox"/> D015	Toxaphene	≥ 0.5 mg/l	
<input type="checkbox"/> D016	2,4-D	≥ 10.0 mg/l	
<input type="checkbox"/> D017	2,4,5-TP Silvex	≥ 1.0 mg/l	
<input type="checkbox"/> D018	Benzene	≥ 0.5 mg/l	
<input type="checkbox"/> D019	Carbon tetrachloride	≥ 0.5 mg/l	
<input type="checkbox"/> D020	Chlordane	≥ 0.03 mg/l	
<input type="checkbox"/> D021	Chlorobenzene	≥ 100.0 mg/l	
<input type="checkbox"/> D022	Chloroform	≥ 0.0 mg/l	
<input type="checkbox"/> D023	o-Cresol	≥ 200.0 mg/l	
<input type="checkbox"/> D024	m-Cresol	≥ 200.0 mg/l	
<input type="checkbox"/> D025	p-Cresol	≥ 200.0 mg/l	
<input type="checkbox"/> D026	Cresol	≥ 200.0 mg/l	
<input type="checkbox"/> D027	1,4-Dichlorobenzene	≥ 7.5 mg/l	
<input type="checkbox"/> D028	1,2-Dichloroethane	≥ 0.5 mg/l	
<input type="checkbox"/> D029	1,1-Dichloroethylene	≥ 0.7 mg/l	
<input type="checkbox"/> D030	2,4-Dinitrobenzene	≥ 0.13 mg/l	
<input type="checkbox"/> D031	Heptachlor (and its epoxide)	≥ 0.008 mg/l	
<input type="checkbox"/> D032	Hexachlorobenzene	≥ 0.13 mg/l	
<input type="checkbox"/> D033	Hexachloro-1,3-butadiene	≥ 0.5 mg/l	
<input type="checkbox"/> D034	Hexachloroethane	≥ 3.0 mg/l	
<input type="checkbox"/> D035	Methyl ethyl ketone	≥ 200.0 mg/l	
<input type="checkbox"/> D036	Nitrobenzene	≥ 2.0 mg/l	
<input type="checkbox"/> D037	Pentachlorophenol	≥ 100.0 mg/l	
<input type="checkbox"/> D038	Pyridine	≥ 5.0 mg/l	
<input type="checkbox"/> D039	Tetrachloroethylene	≥ 0.7 mg/l	
<input type="checkbox"/> D040	Trichloroethylene	≥ 0.5 mg/l	
<input type="checkbox"/> D041	2,4,5-Trichlorophenol	≥ 400.0 mg/l	
<input type="checkbox"/> D042	2,4,6-Trichlorophenol	≥ 2.0 mg/l	
<input type="checkbox"/> D043	Vinyl chloride	≥ 0.2 mg/l	

VI. Shipping Information

DOT Shipping Name (per 49 CFR 172.101): None - Reg NON-HAZARDOUS WASTE Solid Waste

Reportable Quantity: _____

DOT Hazard Class: _____ UNNA Number: _____

Method of shipment: bulk solids bulk liquids 55-gallon drum lab pack other (specify) _____

I certify that the information presented on this form is accurate, the waste has been correctly characterized according to 40 CFR 262.11, a representative sample for lab pack inventory of the waste stream has been provided to USPCI, and that I am authorized by the above listed company or Agency to provide this information.

Signature: _____ Printed Name: Shawn Subramanian Date: 5/10/91

JUL 24 1991

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAAD98124814008		Manifest Document No. 0101012		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address Curoco Steel 536 Cleveland Ave Alhambra, CA 94701 Generator's Phone (415) 223-3221						A. State Manifest Document Number 89869357							
5. Transporter 1 Company Name USPCT						6. US EPA ID Number DK1D1981151141474		C. State Transporter's ID 112411					
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone 300-877-3416					
9. Designated Facility Name and Site Address USPCT Grassy Mountain FAC. 1. ty 3 MI. EAST, 7 MI. NORTH OF KIDDS EXIT 41, I-20 UTV LTR 347442						10. US EPA ID Number UT1D191911310117148		G. State Facility's ID					
								H. Facility's Phone 801-595-3900					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. NON-RCRA HAZARDOUS WASTE SOLID						001 D1010101R		Y				State 611 EPA/Other NONE	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above GM # 91988 SOLID 99% PAINT & 1% SW 4/4880						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.							
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY # 405-334-4200						P. 14770 MVT FUBCOH							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name D. M.			Signature [Signature]			Month Day Year 10/6/21/91							
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name RICK ARNOLD			Signature [Signature]			Month Day Year 10/6/21/91							
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name			Signature			Month Day Year							
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						910-8712							
Printed/Typed Name A C Romero			Signature [Signature]			Month Day Year 10/6/26/91							

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9802, WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7850

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Curado Steel 536 Cleveland Ave Albany, CA 94701 Generator's Phone (415) 233-3221		8. US EPA ID Number 10KID198151144714		C. State Transporter's ID		A. State Manifest Document Number 89869358		B. State Generator's ID	
5. Transporter 1 Company Name USPLI		8. US EPA ID Number		D. Transporter's Phone 800-877-2416		E. State Transporter's ID		F. Transporter's Phone 118013	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID	
9. Designated Facility Name and Site Address USMCI Grassy Mountain Fac. 1 ty 3 mi east, 7 mi north of KIDLL Exit 41, I-80 Clive Utah 84499K		10. US EPA ID Number 10ITD1991310117148		G. State Facility's ID		H. Facility's Phone 801-595-3900			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity		14. Unit Wt./Vol		I. Waste No.	
a. NON-RCRA HAZARDOUS WASTE SOLID		0101 DIT		01010118		Y		State 611 EPA/Other NONE	
b.								State EPA/Other	
c.								State EPA/Other	
d.								State EPA/Other	
J. Additional Descriptions for Materials Listed Above GM # 91938 SOIL DIRT 99% PAINT < 1% SL 3986 OP		K. Handling Codes for Wastes Listed Above		a. 03		b.		c.	
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY PHONE # 405-324-4200 Protect # 94777 7/1 NOT RECORDED									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		Printed/Typed Name Don Mayo		Signature <i>[Signature]</i>		Month Day Year 10 16 1991			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name TERRY L. HUNTER		Signature <i>[Signature]</i>		Month Day Year 10 16 1991			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name A C KENNEDY		Signature <i>[Signature]</i>		Month Day Year 10 16 1991			

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD 9181248140108010003		Manifest Document No. 1 of 1		2. Page 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Curoco Steel 556 Cleveland Ave Alhambra, CA 94701 Generator's Phone (415) 233-3221						A. State Manifest Document Number 89869362					
5. Transporter 1 Company Name USPCI						C. State Transporter's ID 115-1X					
6. US EPA ID Number DKD98115114474						D. Transporter's Phone 800-877-2416					
7. Transporter 2 Company Name						E. State Transporter's ID					
8. US EPA ID Number						F. Transporter's Phone					
9. Designated Facility Name and Site Address USPCI GRASSY MOUNTAIN FACILITY 3 MI. EAST, 7 MI NORTH OF KNOLLS EXIT 41, I-80 KANE, UTAH 84079						10. US EPA ID Number MTD1911131011748					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. NON-RCRA HAZARDOUS WASTE SOLID						12. Containers No. Type 0101 DIT010118		13. Total Quantity		14. Unit Wt/Vol Y	
b.						State 611		EPA/Other None		L Waste No.	
c.						State		EPA/Other		State	
d.						State		EPA/Other		State	
J. Additional Descriptions for Materials Listed Above GM # 91988 SOIL DIRT 99% PAINT 1% 54 73500p.						K. Handling Codes for Wastes Listed Above a. 063		b.		c.	
15. Special Handling Instructions and Additional Information 24 HOUR Emergency phone # 405-324-4200						K. Handling Codes for Wastes Listed Above b. PROBLEM 44790 INVOICE 54					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name D. M. ...				Signature D. M. ...				Month Day Year 10/6/21/91			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name RICHARD ORR				Signature Richard Orr				Month Day Year 10/6/21/91			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.											
Printed/Typed Name A. C. ...				Signature A. C. ...				Month Day Year 9/16-5716 10/6/21/91			

89869362
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1DQ82489008 001014**
 Manifest Document No. **1 of 1**

2. Page 1
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Curoco Steel
536 Cleveland Ave
Alhambra, CA 91701
 4. Generator's Phone **415 233-2221**

A. State Manifest Document Number
89869363

B. State Generator's ID

5. Transporter 1 Company Name **USPCI**
 6. US EPA ID Number **10IKD98115114474**

C. State Transporter's ID
 D. Transporter's Phone **209 800-877-2416**

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

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

9. Designated Facility Name and Site Address
USPCI Grassy Mountain
301 EAST, 7 MI. NORTH OF KNOLLS
EXIT 41, I-80
CLIVE, OH 44994
 10. US EPA ID Number **10ITD99113011748**

G. State Facility's ID
 H. Facility's Phone **801-595-3900**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.	
				State	EPA/Other
a. NON-RCRA HAZARDOUS WASTE SOLID	0611 DITOKIUR Y			611	NONE
b.				State	EPA/Other
c.				State	EPA/Other
d.				State	EPA/Other

J. Additional Descriptions for Materials Listed Above
GM # 91988 SOIL DIRT 99% PAINT
see 42, 5801

K. Handling Codes for Wastes Listed Above
 a. **03**
 b. **1**
 c.
 d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency # 405-324-4200
NOVTEC8054

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: **D. W. ...** Signature: **[Signature]** Month Day Year: **7/24/91**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **[Name]** Signature: **[Signature]** Month Day Year: **7/24/91**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **[Name]** Signature: **[Signature]** Month Day Year: **7/24/91**

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name: **A C Renzo** Signature: **[Signature]** Month Day Year: **9/16-5709 062691**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-552-7650

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's USEPA ID No. CAD982484008		Manifest Document No. 0101015		2. Page 1 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address Curoco Steel 536 Cleveland Ave ALBANY, CA 94701 Generator's Phone						A. State Manifest Document Number 89869364							
5. Transporter 1 Company Name USPCI						B. State Generator's ID							
6. US EPA ID Number OKD981514404						C. State Transporter's ID 118234							
7. Transporter 2 Company Name						D. Transporter's Phone 800-877-2416							
8. US EPA ID Number						E. State Transporter's ID							
9. Designated Facility Name and Site Address USPCI Grassy Mt. Fire 3 MI EAST, 7 MI NORTH OF KNOLLS EXIT 41, I-80 Oliver, Utah 84054						F. Transporter's Phone							
10. US EPA ID Number UTD99113011748						G. State Facility's ID							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. NON-RCRA HAZARDOUS WASTE SOLID						12. Containers No. Type 0011 DIT 0010118 Y		13. Total Quantity		14. Unit Wt/Vol Y		I. Waste No. State 611 EPA/Other NONE	
b.										State			
c.										EPA/Other			
d.										State			
										EPA/Other			
J. Additional Descriptions for Materials Listed Above GM# 91988 SOLID DIRT 99% PAINT < 1% S-39980f						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.							
15. Special Handling Instructions and Additional Information 24 Hour Emergency # 405-324-4200 NOT FEB 254													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name RON MAYN				Signature Ron Mayo				Month Day Year 10/21/91					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name DANIEL T. DELON				Signature Daniel T. Delon				Month Day Year 10/21/91					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month Day Year					
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. 916-5978													
Printed/Typed Name AC Rouns				Signature AC Rouns				Month Day Year 10/21/91					

89869364
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GENERATOR

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C1A1D1919121419141010191010191		Manifest Document No. 1 of 1		2. Page 1 Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address Curoco Steel 536 Cleveland Ave Albany, CA 94701				A. State Manifest Document Number 89869365			
4. Generator's Phone (415) 223-3221				B. State Generator's ID			
5. Transporter 1 Company Name USPC				6. US EPA ID Number 60 KID US EPA ID # 88 791		C. State Transporter's ID 117-45	
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 800-877-2416	
9. Designated Facility Name and Site Address USPCI G... M... SOUTH OF R... B... I-80				10. US EPA ID Number		E. State Transporter's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity	
a. Non-RCRA HAZARDOUS WASTE SOLID				0101 DIT		0101117 Y	
b.						State G11 EPA/Other NONE	
c.						State EPA/Other	
d.						State EPA/Other	
J. Additional Descriptions for Materials Listed Above GM # 919087 SOIL 99% OROR # PAINT 1% 37819 LD TR # 1057514				K. Handling Codes for Wastes Listed Above a. + b. c. d.			
15. Special Handling Instructions and Additional Information 24 HOUR EQ # 405-324-4200				PROJECT # 94790 NVTPC8054			
18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name D... M...		Signature D... M...		Month Day Year			
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name D... R...		Signature D... R...		Month Day Year 1/12/89			
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space Manifest Document # 00008 P... SOLID McSHERRY 9-91 Check							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name M... S...		Signature M... S...		Month Day Year 8/1/89			

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 800-852-7550
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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D 981248140108	Manifest Document No. 0101007	2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CURCOU STEEL 536 CLEVELAND AVE ALBANY, CA 94701				A. State Manifest Document Number 89869366		
4. Generator's Phone 415 233-3231				B. State Generator's ID		
5. Transporter 1 Company Name USPCI		6. US EPA ID Number 01K1298115114174		C. State Transporter's ID 20577		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 916 324-5011		
9. Designated Facility Name and Site Address USPCI GRASSY INDUSTRIAL 3m. EAST 7m. NORTH OF RAILS EXIT 41 - I-80 BLUE MOUNTAIN 94074				E. State Transporter's ID (405) 324-5011		
10. US EPA ID Number UT10191131011748				F. Transporter's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA HAZARDOUS WASTE SOLID				0101	DT	410K1112
J. Additional Descriptions for Materials Listed Above GM # 919088 99% SOIL DIRT 62 91-0988 1% PAINT				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY # 405-324-4200				a. 1-366401		
				b.		
				c.		
				d.		
<p>GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.</p> <p>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>				PROJECT # 94790 NVTPCB054		
Printed/Typed Name D. D. Mason		Signature <i>[Signature]</i>		Month Day Year 10/6/89		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name GARY L MASON		Signature <i>[Signature]</i>		Month Day Year 10/6/89
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				916-9221		
Printed/Typed Name A. C. Mason		Signature <i>[Signature]</i>		Month Day Year 10/20/89		

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Curoco Steel 536 Cleveland Ave Albany, CA 94701 Generator's Phone (415) 233-3321		1. Generator's US EPA ID No. CAAD1982141814101810101011		A. State Manifest Document Number 89869367	
5. Transporter 1 Company Name USPCI		6. US EPA ID Number OKID98115141474		B. State Generator's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address USPCI Grassy Mountain 3m. East 7m. North of K. Hills Exit 41 I-80 Mile West 54944E		10. US EPA ID Number MUTD919113101191418		D. Transporter's Phone 800-877-3416	
				E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone 801-595-3900	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	L Waste No.
a. NON-RCRA HAZARDOUS WASTE SOL. d		0011	11010101118	Y	State Call EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other
J. Additional Descriptions for Materials Listed Above Gm # 919088 919088 SOLID INT. 99% PAINT 1%		K. Handling Codes for Wastes Listed Above			
		a. 03		b. 4	
		c.		d.	
15. Special Handling Instructions and Additional Information 24HR EMERGENCY # 405-324-4200		PROJECT # 94790 NVTPCB054			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name D. M. ...		Signature <i>[Signature]</i>		Month Day Year 10/6/89	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name ALEC OKINO		Signature <i>[Signature]</i>		Month Day Year 10/6/89	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name M. S. ...		Signature <i>[Signature]</i>		Month Day Year 10/21/89	

Do Not Write Below This Line



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CUROCO STEEL

MANIFEST # 00001

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

39,860 LBS
DISPOSAL DATE ----- 06/26/91

LOAD NUMBER ----- 08708

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UT0991301748

William K. Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR

P.04

15102333385

TO

FROM

10:14

06-28-1991



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CUROCO STEEL

MANIFEST # 00002

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

44,880 LBS
DISPOSAL DATE ----- 06/26/91

LOAD NUMBER ----- 08712

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UTD991301748

William K. Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CURCO STEEL

MANIFEST # 00003

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

37,500 LBS
DISPOSAL DATE ----- 06/26/91

LOAD NUMBER ----- 08710

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UPB991301748

William Ken Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CURCOO STEEL

MANIFEST # 00004

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Yovelle County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

42,580 LBS
DISPOSAL DATE ----- 06/26/91

LOAD NUMBER ----- 08709

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UPD991301748

William K. Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CUROCO STEEL

MANIFEST # 00005

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

39,980 LBS
DISPOSAL DATE ----- 07/01/91

LOAD NUMBER ----- 08978

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UT0991301748

William K. Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CUROCD STEEL

MANIFEST # 00008

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

36,580 LBS
DISPOSAL DATE ----- 07/02/91

LOAD NUMBER ----- 09021

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UFD991301748

William K. Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CUROCO STEEL

MANIFEST # 00006

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ---- GM91-0988

QUANTITY ---- 18 Y

27,600 LBS

DISPOSAL DATE ---- 07/03/91

LOAD NUMBER ---- 09146

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UPD991301748

William Ken Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR



U.S.
POLLUTION
CONTROL, INC.

CERTIFICATE OF DISPOSAL

U.S. Pollution Control, Inc. (USPCI), an Oklahoma corporation duly permitted and operating under the approval of the Utah State Department of Health does hereby certify that the controlled industrial waste of

CURCO STEEL

MANIFEST # 00007

WITH THE FOLLOWING WASTE CODES

has been disposed of at the Grassy Mountain Controlled Industrial Waste Surface Disposal Site, located in Tooele County, Utah, and that such treatment, neutralization and disposal has been accomplished in accordance with all applicable rules and regulations of the State of Utah and the U.S. EPA.

WASTE ID ----- GM91-0988
QUANTITY ----- 18 Y

36,640 LBS
DISPOSAL DATE ----- 07/05/91

LOAD NUMBER ----- 09221

U.S. POLLUTION CONTROL, INC.
DISPOSAL SITE PERMIT NO. UT0991301748

William K. Hall
FACILITY MANAGER

RECORDS ADMINISTRATOR

APPENDIX F

**Forward, Inc. Waste Characterization and Soil Description Forms,
(Non-Hazardous) Transportation Manifests, and Forward,
Inc. Landfill Waste Acceptance Receipts**

FORWARD INC.

WASTE CHARACTERIZATION FORM

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

SECTION A: GENERATOR/TRANSPORTER INFORMATION

Waste Generator: Company Name: Curaco Steel Systems
 Contact Person: Ron Mayo Phone: 415-233-3221
 Generating Facility: Address: 536 Cleveland Ave
 City: Albany State: Ca Zip: 94701
 Transporter: Company Name: Environmental Chemical Corp.
 Contact Person: Sue Fisher Phone: 415-347-1555
 Consultant: Company Name: SITE Inc. / Environ Corp.
 Contact Person: Shawn Sabharwal Phone: 415-348-5505

SECTION B: WASTE STREAM IDENTIFICATION

General description of waste: Treated Soil
 Process generating waste: Painting off spray of Corrugated Steel

SECTION C: PHYSICAL CHARACTERISTICS

Color: Bra Physical State: Solid Liquid Slurry Paste Powder Free Liquids: Yes No
 pH: Odor: Strong Mild None

SECTION D: WASTE COMPOSITION (see SECTION E for asbestos) (include range of concentrations for multiple samples)

Total Petroleum Hydrocarbons:	Metals:	Total (mg/kg)	Soluble (Cal. WET) (mg/l)
as gasoline _____ ppm	Antimony _____	_____	_____
as diesel _____ ppm	Arsenic _____	_____	_____
as motor oil _____ ppm	Barium _____	_____	_____
other _____ ppm	Beryllium _____	_____	_____
Aromatic Hydrocarbons:	Cadmium _____	_____	_____
Benzene _____ ppm	Chrom. (total) _____	_____	_____
Toluene _____ ppm	Chrom. VI _____	_____	<u>.15 - .33</u>
Xylenes (total) _____ ppm	Cobalt _____	_____	_____
Ethylbenzene _____ ppm	Copper _____	_____	_____
Other Components (list):	Lead _____	_____	<u>.07 - .05</u>
_____ ppm	Mercury _____	_____	_____
_____ ppm	Manganese _____	_____	_____
_____ ppm	Molybdenum _____	_____	_____
_____ ppm	Nickel _____	_____	_____
_____ ppm	Selenium _____	_____	_____
_____ ppm	Silver _____	_____	_____
_____ ppm	Strontium _____	_____	_____
_____ ppm	Thallium _____	_____	_____
_____ ppm	Vanadium _____	_____	_____
_____ ppm	Zinc _____	_____	<u>1.38 - 1.84</u>
_____ ppm	Others (list): _____	_____	_____
_____ ppm	_____	_____	_____
_____ ppm	_____	_____	_____

(attach or submit additional sheets if necessary)

SECTION E: ASBESTOS

Indicate containment for asbestos:

- bags
- cartons
- drums
- wrapping
- other: _____

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

SECTION F: SHIPPING INFORMATION

Method: Bulk Liquid Bulk Solid Containerized (type): _____
 Quantity: 300 cubic yards gallons
 per month year one time only other _____

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

SECTION G: CERTIFICATION/INDEMNIFICATION STATEMENT

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

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

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

COMPANY: SITE, Inc
 BY: (print name): Shawn Sabharwal TITLE: Vice-President
 SIGNATURE: [Signature] DATE: 8/12/91

FORWARD INC

CONTAMINATED SOIL DESCRIPTION FORM

A: GENERATOR

COMPANY NAME Curoco Steel Systems
 ADDRESS 536 Cleveland Ave, Albany, Ca
 CONTACT PERSON Ron Mayo TEL. 233-3221

CONTAMINATED SOIL SOURCE(S)

SITE LOCATION Curoco Steel Systems
 ADDRESS 536 Cleveland Ave, Albany, Ca
 ENVIRONMENTAL CONSULTANT SITE, Inc.
 CONTACT PERSON Shawn Sabharwal TEL. 415-348-5505

B: SOIL TYPE :

PHYSICAL : SOLID SLURRY PASTE POWDER
 % SAND % SILT % CLAY

CHEMICAL: pH 7

C: HISTORICAL CHEMICALS USED :

CHEMICAL	TYPE OF BUSINESS	SOURCE OF INFORMATION
<u>Paint</u>	<u>Manufacture Corrugated Steel</u>	<u>Ron Mayo</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

D: PREVIOUS SOIL INVESTIGATIONS

ANY SITE / SOIL INVESTIGATIONS?

YES NO

*see attached
Environ Reps*

FIRST REPORT

SECOND REPORT

REPORT TITLES	_____	_____
DATE	_____	_____
PREPARED BY:	_____	_____

E: CHEMICAL ANALYSES COMPLETED ON SOIL SAMPLES

ANALYSES	METHODS	YES	NO	LabName	Lab No.	ANALYSIS DATE
I. TPH						
	* 8015					
	418.1					
	413.1					
* FUEL TYPE						
ii. POLLUTANT VOC'S						
	8010					
	8020					
	8240					
	Others					
iii. EXTRACTABLES						
	8080					
	8100					
	8270					
	Others					
iv. METALS						
	CAM METAL					
	7000 SERIES					
	ICP-6010					
	WET TEST					
	Others					
v. OTHERS						
	SULFIDES					
	CYANIDES					
	BIO-ASSAY					
	TREATABILITY					
	Others					

F. SOIL SAMPLING DATA

Sampling Co. Sampler	Sampling Date	No. of Samples	Soil Vol./ Sample	In-Situ Y/N	Strike Y/N	*Hot Spots	Composite Samp. Y/N	No. of Samples per Composite

* "Hot Spots" are defined as portions of soils containing elevated concentrations of contaminants greater than five (5) times the average concentration of soils that will be received at the landfill.

G: CHEMICAL RESULTS SUMMARY

ANALYSIS METHOD	CHEMICALS DETECTED	MODAL CONC	AVERAGE CONC	HIGHEST CONC	VOL OF WASTE	%VOL OF WASTE
DI - water	Pb		.04	.05	<10 lbs	1%
DI - water	Cr		.21	.33	<10 lbs	1%
DI - water	Zn		2.1	3.84	<10 lbs	1%

TOTAL SOIL VOL = 300 cubic yards

H: CERTIFICATION

REGISTERED GEOLOGIST/ENGINEER: _____

THE SIGNATURE AND PROFESSIONAL SEAL OF THE ABOVE LINE CERTIFIES THAT THE DATA REPORTED IN THIS FORM ARE COMPLETE AND ACCURATE SUMMARIES OF THE REPRESENTATIVE CHEMICAL COMPOSITION OF THE WASTE TO BE RECEIVED BY FORWARD INC. LANDFILL, SAN JOAQUIN COUNTY.

Analytical Report



State Approved Hazardous Waste Testing Laboratory - Certificate # ¹²³⁹ 1239

Date Sampled 02-07-91 Date Analyzed 02-11-91
 Date Submitted 02-07-91 Lab. No. K-526, K-529

CLIENT : SITE INC. SITE: CUROCCO STEEL
 1240 Bayshore Highway, Suite # 305 Albany, California
 Burlingame, CA 94010

SAMPLE :

- Sample #K-526 F# FC1, treated soil samples after using Ensol/landtreat
- Sample #K-527 F# FC2, treated soil samples after using Ensol/landtreat
- Sample #K-528 F# FC3 treated soil samples after using Ensol/landtreat
- Sample #K-529 F# FC4, treated soil samples after using Ensol/landtreat

*** STLC (mg/L) (After Treatment)**

Sample#	Ag	Cu	Pb	Fe	Cr	Ni	Cd	Zn
K-526	<0.03	<0.002	<0.04	29	0.23	0.006	<0.002	1.84
K-527	<0.03	0.03	0.05	29	0.33	<0.005	<0.002	3.84
K-528	<0.03	<0.002	<0.04	21	0.15	<0.005	<0.002	1.37
K-529	<0.03	<0.002	<0.04	22	0.15	<0.005	<0.002	1.38
		STL 5.0		STL 560				STL 250

* Standard STLC Procedure was used, except that deionized water was used instead of sodium Citrate buffer, for extraction.

Ernest D. Lykissa, Ph. D.
 Laboratory Director

S. K. Lamba
 Analyst

MID COAST
TRANSPORTATION
INC.

P.O. BOX 74
ALAMO, CA 94507
PHONE: (415) 449-8211

FREIGHT BILL

CALT 125842

37338

DATE: 9-11-91

SHIPPER: CUZCO CONSIGNEE: FORWARD DUMP

STREET: _____ STREET OR BOX: _____

CITY: _____ CITY: _____

ORIGIN: Cleveland 80, Albany DESTINATION: Austin & Marposq Stockton

MILES: 91-116 PROD AREA: _____ DELIVERY ZONE: _____

NO. AXLES: 5 DISTANCE BETWEEN AXLES: 20 CUBIC YARD CAPACITY: 20

TYPE EQUIP.: #10 WHEELER TRANSFER SEMI END

DBL BOTTOM SEMI BOTTOM

COMMODITY: DIRT

TAG NO.	WEIGHT	ORIGIN		DESTINATION	
		IN	OUT	IN	OUT
1. <u>007340</u>		6:30	7:00	9:00	9:15
2.					
3.		11:00	11:15	1:15	1:30
4.					
5.					
6.					
7.					
8.					
9.					
10.					

4 1/4 hrs @ load

4. FINISH DUMPING LAST TRIP	3. DUMPSITE ARRIVAL TIME: <u>11:15</u>	TOTAL LBS	TOTAL HRS: <u>8.5</u>
1. STARTING TIME FIRST TRIP	2. JOBSITE DEPARTURE TIME LAST TRIP: <u>11:15</u>	TONS	RATE: <u>54.05</u>
5. OVER-ALL TIME (4-1)	6. TRAVEL TIME (3-2): <u>2</u>	\$	
7. TOTAL TIME (5+6): <u>8.5</u>		STD. BY	MIN \$
8. LESS: MEAL & DOWNTIME			
9. NET HRS. CHARGEABLE (7-8): <u>8.5</u>			

501.93

Walter Stinnett Trucking
Walter D. Stinnett
DRIVER

TRUCK NO: G436 TRAILER NO: ED6

BY: J. Cisneros CONSIGNEE

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/2% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION
EXCEPT AS NOTED
21700

FUEL _____

12734
MID COAST
 TRANSPORTATION
 INC.

P.O. BOX 74
 ALAMO, CA 94507
 PHONE: (415) 449-8211

FREIGHT BILL

CALT 125842

37666

DATE 9 11 91

SHIPPER: Site const
 CONSIGNEE: Site const
 STREET: Cleveland
 STREET OR BOX:
 CITY: Albany
 CITY: Forward Ca
 ORIGIN: Albany Curwood Steel
 DESTINATION: Forward Pump
 ALBANY CLEVELAND
 MILES: 91-110
 JOB NO.:
 PROD. AREA:
 DELIVERY ZONE:
 NO. AXLES: 5
 DISTANCE BETWEEN AXLES:
 CUBIC YARD CAPACITY: 20
 TO: Site Pines
 STREET OR BOX:
 CITY:
 TYPE EQUIP.: #10 WHEELER TRANSFER SEMI ENO
 DBL. BOTTOM SEMI BOTTOM

TAG NO.	WEIGHT	ORIGIN		DESTINATION	
		IN	OUT	IN	OUT
1.	20 yards	6:30	7:20	9:25	9:30
2.		11:35	11:50	1:55	2:00
3.		4:00			
4.					
5.					
6.					
7.					
8.					
9.					
10.					

4. FINISH DUMPING LAST TRIP: 2:00
 3. DUMPSITE ARRIVAL TIME: 1:55
 1. STARTING TIME FIRST TRIP: 6:30
 2. JOBSITE DEPARTURE TIME LAST TRIP: 11:50
 5. OVERALL TIME (4-1): 8 1/2
 6. TRAVEL TIME (3-2): 2'

TOTAL LBS: _____ TOTAL HRS: 8.5
 TONS: _____ RATE: \$905
 \$ 501.93
 STD BY: _____ MN @ _____
 \$ 501.93

7. TOTAL TIME (5+6): 8.5
 8. LESS: MEAL & DOWNTIME: 0
 9. NET HRS. CHARGEABLE (7-8): 8.5
 FOR OFFICE USE ONLY
 UNDERLYING CARRIER: PAR Trans 11
 DRIVER: [Signature]

TRUCK NO: 1352
 BY: [Signature]
 CONSIGNEE

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/2% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION EXCEPT AS NOTED

20130

FUEL _____

12731
MID COAST
 TRANSPORTATION
 INC.

P.O. BOX 74
 ALAMO, CA 94507
 PHONE: (415) 449-8211

FREIGHT BILL

CALT 125842

37996

DATE: 9-11-91

SHIPPER: **Curves steel*
 CONSIGNEE: *Forward Landfill*
 STREET: *636 Cleveland*
 STREET OR BOX:
 CITY: *Albany*
 CITY: *Stockton*
 ORIGIN: *Albany*
 DESTINATION: *Stockton* ▼ FOR OFFICE USE ONLY
 MILES: *91-110*
 JOB NO.:
 TRUCK AREA:
 DELIVERY ZONE:
 NO. AXLES: *5*
 DISTANCE BETWEEN AXLES:
 CUBIC YARD CAPACITY:
 TYPE EQUIP.: #10 WHEELER WHEELSPER SEMI END
 OBL BOTTOM SEMI BOTTOM

BILL TO: *(Site, Inc.)*
 STREET OR BOX:
 CITY:

COMMODITY	TAG NO.	WEIGHT	ORIGIN		DESTINATION	
			IN	OUT	IN	OUT
	1. <i>07337</i>	<i>20 yds</i>	<i>1000</i>	<i>1050</i>	<i>1205</i>	<i>110</i>
	2.					
	3.					
	4.					
	5.					
	6.					
	7.					
	8.					
	9.					
	10.					

(H/4 has lead)

4. FINISH DUMPING LAST TRIP: *3:00*
 3. DUMPSITE ARRIVAL TIME: *2:45*
 1. STARTING TIME FIRST TRIP: *10:00*
 2. JOBSITE DEPARTURE TIME LAST TRIP: *10:50*
 5. OVER-ALL TIME (4-1): *3:10*
 6. TRAVEL TIME (3-2): *1:55*
 7. TOTAL TIME (5+6): *7:45* *5:05*

TOTAL LBS: _____ TOTAL HRS: *4.3*
 TONS: _____ RATE: *5905*
 \$: *253.92*
 STD. BY: _____ MN @ _____
 \$: *253.92*

8. LESS: MEAL & DOWNTIME: *0*
 9. NET HRS. CHARGEABLE (7-8): *0.9* *(5.1)*
 UNDERLYING CARRIER: *JKM TRK*
 DRIVER: *D. Deane*

TRUCK NO. *36* TRAILER NO. *36T*
 BY: _____ CONSIGNEE

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/2% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION EXCEPT AS NOTED *21220* FUEL _____

12734

MID COAST TRANSPORTATION INC.

P.O. BOX 74
ALAMO, CA 94507
PHONE: (415) 449-8211

FREIGHT BILL

CALT 125842

38248

DATE 9-11-91

SHIPPER <u>Site Const.</u>		CONSIGNEE <u>Howard Dump</u>	
STREET <u>536 CLEVELAND AVE.</u>		STREET OR BOX <u>Austin RD.</u>	
CITY <u>ALBANY CA</u>		CITY <u>Stockton</u>	
ORIGIN <u>ALBANY CA</u>		DESTINATION <u>Stockton</u>	
MILES <u>91.18</u>	JOB NO.	PROD. AREA	DELIVERY ZONE
NO. AXLES <u>5</u>	DISTANCE BETWEEN AXLES <u>42</u>	CUBIC YARD CAPACITY <u>20</u>	FOR OFFICE USE ONLY
TYPE EQUIP. <input type="checkbox"/> #10 WHEELER <input type="checkbox"/> DEL. BOTTOM		<input type="checkbox"/> TRANSFER <input type="checkbox"/> SEMI BOTTOM	BILL TO <u>Site, Inc.</u>
COMMODITY		CITY	

TAG NO.	WEIGHT	ORIGIN		DESTINATION	
		IN	OUT	IN	OUT
<u>007317</u>	<u>20405</u>	<u>6:00</u>	<u>6:46</u>	<u>8:30</u>	<u>8:40</u>
<u>007331</u>	<u>20405</u>	<u>10:10</u>	<u>10:30</u>	<u>12:00</u>	<u>12:15</u>
<u>3.</u>		<u>2:30</u>			
<u>4.</u>					
<u>5.</u>					
<u>6.</u>					
<u>7.</u>					
<u>8.</u>					
<u>9.</u>					
<u>10.</u>					

4 1/4 hrs. a load

4. FRESH DUMPING LAST TRIP	3. DUMPSITE ARRIVAL TIME
1. STARTING TIME FIRST TRIP	2. JOBSITE DEPARTURE TIME LAST TRIP
5. OVER-ALL TIME (4-1)	6. TRAVEL TIME (3-2)
7. TOTAL TIME (5+6)	
8. LESS: MEAL & DOWNTIME	
9. NET HRS. CHARGEABLE (7-8)	

TOTAL LBS.	TOTAL HRS.	<u>8.5</u>
TONS	RATE	<u>59.05</u>
		\$ <u>501.93</u>
STD BY		
		\$ <u>501.93</u>

▲ FOR OFFICE USE ONLY

TRUCK NO. 22 TRAILER NO. 3

BY [Signature] CONSIGNEE

UNDERLYING CARRIER
Vince
DRIVER

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/2% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION EXCEPT AS NOTED 20658

FUEL _____

MID COAST
TRANSPORTATION
INC.

FREIGHT BILL

CALT 125842

P.O. BOX 74,
ALAMO, CA 94507
PHONE: (415) 449-8211

38018

DATE 9-11-91

SHIPPER SITE CONST				CONSIGNEE FORWARD LAND FILL			
STREET				STREET OR BOX			
CITY				CITY			
ORIGIN CURCO STEEL ALBANY				DESTINATION AUSTON RD MANTECA			
MILES 182	JOB NO. 91-116	PROD. AREA	DELIVERY ZONE	FOR OFFICE USE ONLY			
NO. AXLES 5		DISTANCE BETWEEN AXLES		BILL TO Site, Inc.		STREET OR BOX	
TYPE EQUIP. <input type="checkbox"/> P10 WHEELER <input type="checkbox"/> OIL BOTTOM		<input type="checkbox"/> TRANSFER <input type="checkbox"/> SEMI BOTTOM		<input checked="" type="checkbox"/> SEMI TRAILER		CITY	

TAG NO.	WEIGHT	ORIGIN		DESTINATION	
		IN	OUT	IN	OUT
1. 07314	20 YDS	5:40	6:00	7:45	8:00
2. 321		9:50	10:10	11:50	12:00
3. ?		1:35	1:55	3:40	3:50
4.					
5.					
6.					
7.					
8.					
9.					
10.					

(4 1/4 hrs a load)

4. FRESH DUMPING LAST TRIP 3:50	3. DUMPSITE ARRIVAL TIME 3:40	TOTAL LBS.	TOTAL HRS. 12.8
1. STARTING TIME FIRST TRIP 5:40	2. JOBSITE DEPARTURE TIME LAST TRIP 1:55	TONS	RATE 59.05
5. OVER-ALL TIME (4-1) 10:30	6. TRAVEL TIME (3-2) 1:45	\$ 755.84	
7. TOTAL TIME (5+6) 12:15	STD. BY _____ MIN @ _____		
8. LESS: MEAL & DOWNTIME 0	\$ 755.84		
9. NET HRS. CHARGEABLE (7-8) 12.3	▲ FOR OFFICE USE ONLY		

TRUCK NO. **800** TRAILER **ED-5**

BY *J. Chase* CONSIGNEE

DRIVER *Wanda*

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/4% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION EXCEPT AS NOTED **20075** FUEL _____

2734
MID COAST
 TRANSPORTATION
 INC.

FREIGHT BILL

CALT 125842-
 38324

P.O. BOX 74
 ALAMO, CA 94507
 PHONE: (415) 449-8211

DATE 9-11-91

SHIPPER <u>Site Const.</u>		CONSIGNEE <u>Forward Landfill</u>	
STREET <u>Curaco Steel</u>		STREET OR BOX	
CITY <u>Albany</u>		CITY <u>Manteca</u>	
ORIGIN <u>Cleavland + Central</u>		DESTINATION <u>S. Austin Rd</u>	
MILES <u>91-116</u>	JOB NO. <u>91-116</u>	PROD. AREA	DELIVERY ZONE
NO. AXLES <u>5</u>		CUBIC YARD CAPACITY	
TYPE EQUIP. <input type="checkbox"/> #10 WHEELER <input type="checkbox"/> DEL. BOTTOM		<input type="checkbox"/> TRANSFER <input type="checkbox"/> SEM. BOTTOM <input checked="" type="checkbox"/> SEM. END	
COMMODITY <u>Dirt</u>		BILL TO <u>Site, Inc.</u>	
		STREET OR BOX	
		CITY	

TAG NO.	WEIGHT	ORIGIN		DESTINATION	
		IN	OUT	IN	OUT
1. <u>07315</u>	<u>20 yds</u>	<u>600</u>	<u>615</u>	<u>820</u>	<u>835</u>
2. <u>07336</u>	<u>"</u>	<u>1015</u>	<u>1115</u>	<u>105</u>	<u>120</u>
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.	<u>right rear sideboard bracket broken off during loading</u>				

44 hrs. a/d.

2 loads

4. FINISH UNLOADING LAST TRIP <u>120</u>	3. DUMP SITE ARRIVAL TIME <u>105</u>
1. STARTING TIME FIRST TRIP <u>600</u>	2. JOBSITE DEPARTURE TIME LAST TRIP <u>1115</u>
5. OVER-ALL TIME (4-1) <u>7.3</u>	6. TRAVEL TIME (3-2) <u>1.8</u>

TOTAL LBS.	TOTAL HRS.
TONS	RATE
\$ <u>501.93</u>	
STD. BY _____ MIN. @ _____	
\$ <u>501.93</u>	

7. TOTAL TIME (5+6) <u>9.1</u>
8. LESS: MEAL & DOWNTIME
9. NET HRS. CHARGEABLE (7-8) <u>9.1</u>
TRUCK NO. <u>30</u>
TRAILER NO. <u>E07</u>

UNDERLYING CARRIER
B Wheeler
 DRIVER
4098

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/2% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION
 EXCEPT AS NOTED

FUEL 115.0

12734
MID COAST
 TRANSPORTATION
 INC.

FREIGHT BILL

CALT 125842
 38393

P.O. BOX 74
 ALAMO, CA 94507
 PHONE: (415) 449-8211

DATE 9-11-91

SHIPPER C. Woco Steel Systems Forward Lendhill
 STREET Cleveland Ave
 CITY Albany Calif.
 CONSIGNEE Stockton Calif.
 STREET OR BOX
 CITY

ORIGIN DESTINATION
 MILES JOB NO. 91-116 PROD. AREA DELIVERY ZONE
 NO. AXLES 5 DISTANCE BETWEEN AXLES CUBIC YARD CAPACITY 20
 TYPE EQUIP. #10 WHEELER TRANSFER SEMI TRAILER
 DR. BOTTOM SEMI BOTTOM END

FOR OFFICE USE ONLY
 BILL TO Site, Inc.
 STREET OR BOX
 CITY

TAG NO	COMMODITY	WEIGHT	ORIGIN		DESTINATION	
			IN	OUT	IN	OUT
1. 07319	Dirt	20 skt	6:00	7:05	9:15	9:30
2. 07338		20 skt	11:10	11:50	1:30	1:45
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

(44 hrs or load)

4. FINISH UNLOADING LAST TRIP 1:45
 1. STARTING TIME FIRST TRIP 6:00
 5. OVER-ALL TIME (4-1) 7:45
 7. TOTAL TIME (5+6) 7.8
 8. LESS: MEAL & DOWNTIME 0
 9. NET HRS. CHARGEABLE (7-8) 7.8
 3. DUMP SITE ARRIVAL TIME
 2. JOBSITE DEPARTURE TIME LAST TRIP
 6. TRAVEL TIME (3-2)

TOTAL LBS. 815
 TONS 59.05
 RATE \$ 501.93
 TOTAL \$ 501.93

FOR OFFICE USE ONLY
 M.C. Trucking
 UNDERLYING CARRIER
 Kelly D.
 DRIVER

TRUCK NO. 85 TRAILER NO. ED 10

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1% PER MONTH WHICH IS 12% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION
 EXCEPT AS NOTED 21170

FUEL _____

MID COAST
TRANSPORTATION
INC.

FREIGHT BILL

CALT 125842

P.O. BOX 74
ALAMO, CA 94507
PHONE: (415) 449-8211

36333

DATE **9.12.91**

SHIPPER SITE CONST.		CONSIGNEE Forward Inc.	
STREET Cleveland Ave		STREET OR BOX Austin Blvd.	
CITY Albany		CITY STOCKTON	
ORIGIN Curved Steel / Albany		DESTINATION	
MILES	JOB NO. 91-116	PROD. AREA	DELIVERY ZONE
▼ FOR OFFICE USE ONLY			
NO. AXLES 5		DISTANCE BETWEEN AXLES 240	
TYPE EQUIP. <input type="checkbox"/> #10 WHEELER <input type="checkbox"/> DBL BOTTOM		CUBIC YARD CAPACITY 20	
		<input type="checkbox"/> TRANSFER <input type="checkbox"/> SEMI BOTTOM <input checked="" type="checkbox"/> SEMI TRAILER	
BILL TO		STREET OR BOX	
		CITY	

TAG NO.	WEIGHT	ORIGIN		DESTINATION	
		IN	OUT	IN	OUT
1. 07363	20 yd.	6:00	6:05	8:05	8:10
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

4 1/4 hrs. load

4. FINISH DUMPING LAST TRIP 8:10	3. DUMPSITE ARRIVAL TIME
1. STARTING TIME FIRST TRIP 6:00	2. JOBSITE DEPARTURE TIME LAST TRIP
5. OVER-ALL TIME (4-1)	6. TRAVEL TIME (3-2) 2

TOTAL LBS.	TOTAL HRS. 4.3
TONE	RATE 59.05
S.	
STD BY	MIN @
\$ 253.92	

7. TOTAL TIME (5+6)
8. LESS: MEAL & DOWNTIME 0
9. NET HRS. CHARGEABLE (7-8)

UNDERLYING CARRIER
Scott A. Silva
DRIVER

TRUCK NO. 13	TRAILER NO. ED-8
BY _____ CONSIGNEE	

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1 1/2% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

RECEIVED IN GOOD CONDITION
EXCEPT AS NOTED

FUEL **78.2**

21565

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 00

TRAILER NO. _____ DATE 9-11 19 91

BILL TO: Site
Mid Coast

07314

recycled paper



QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

IN 7:35 (A.M./P.M.)

Signed Mondak

OUT _____ (A.M./P.M.)

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 30

TRAILER NO. _____ DATE 9-11 19 91

BILL TO: Site
Mid Coast

07315

recycled paper



QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

IN 5:20 (A.M./P.M.)

Signed B Wheeler

OUT _____ (A.M./P.M.)

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 13

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site
M.d Coast

Job 91-116

07316
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature] IN 8:30 (A.M./P.M.)
 OUT _____ (A.M./P.M.)

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 22

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site
M.d Coast

Job 91-116

07317
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature] IN 8:00 (A.M./P.M.)
 OUT _____ (A.M./P.M.)

12734

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO.

TRAILER NO.

DATE 9-11 19 91

BILL TO: Site
Mid Coast
Job 91-116

07318
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed Walter D. Stennett

IN 9:50 A.M./P.M.
 OUT A.M./P.M.

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO.

TRAILER NO.

DATE 9-11 19 91

BILL TO: Site
Mid Coast
Job 91-116

07319
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed

IN 9:15 A.M./P.M.
 OUT A.M./P.M.

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 052

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site
Mid Coast
Job 91-116

07320
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>00</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed: [Signature] IN 9:05 A.M./P.M.
 OUT _____ A.M./P.M.

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 00

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site
Mid Coast
Job 91-116

07321
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>00</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed: [Signature] IN 11:50 A.M./P.M.
 OUT _____ A.M./P.M.

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 13
 TRAILER NO. _____ DATE 9-11 19 91

BILL TO: Site
Mid Coast

07323
recycled paper
07310
07314
07314

Job 91116

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature] IN 11:00 AM/PM
 OUT [Signature] AM/PM

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 22
 TRAILER NO. _____ DATE 9-11 19 91

BILL TO: Site
Mid Coast

07331
recycled paper

Job 91

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature] IN 11:00 AM/PM
 OUT [Signature] AM/PM

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

- RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 30

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site
Mid Coast

Job 91-116

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>00</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed B. W. Kelly

IN 11:50 A.M./P.M.
 OUT _____ A.M./P.M.

07336 recycled paper

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

- RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 30

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site
Mid Coast

Job 91-116

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>00</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature]

IN 11:00 A.M./P.M.
 OUT _____ A.M./P.M.

07337 recycled paper

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO: 85

TRAILER NO: _____

DATE 9-11 1991

BILL TO: Six

Mid Coast

Job 91-116

07338
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature]

IN 1:40 P.M.
 OUT _____ A.M./P.M.

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO: 6436

TRAILER NO: _____

DATE 9-11 1991

BILL TO: Six

Mid Coast

Job 91-116

07340
 recycled paper

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>20</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature]

IN 1:40 P.M.
 OUT _____ A.M./P.M.

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 8336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. _____

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site

07356
 recycled paper

Job 91-116

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>30</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL <input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed _____

IN 12 PM

OUT _____ AM / PM

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 8336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. 00

TRAILER NO. _____

DATE 9-11 19 91

BILL TO: Site

07357
 recycled paper

Job 91-116

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> ASH			
<u>1</u>	<u>00</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL <input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed _____

IN 07:19 PM

SOUTH AUSTIN ROAD, MANTECA, CA 95336 • POST OFFICE BOX 6336, STOCKTON, CA 95206
 MAIN OFFICE: (209) 466-5192 LANDFILL: (209) 982-4298 RESOURCE RECOVERY: (209) 982-4936 FAX: (209) 982-1009

RESOURCE RECOVERY
 LANDFILL



TRUCK NO. _____

TRAILER NO. _____

DATE 9/18 19 97

BILL TO: Site

12734
 07363
 recycled papers

91-1168

QUANTITY	SIZE YDS.	DESCRIPTION	\$ PER YD.	\$ AMOUNT	Tally Sheet No.
		<input type="checkbox"/> DROP BOX			
		<input type="checkbox"/> COMPACTOR			
		<input type="checkbox"/> FRONT LOADER			
		<input type="checkbox"/> DEMOLITION			
		<input type="checkbox"/> ASBESTOS			
		<input type="checkbox"/> DIRT			
<u>1</u>	<u>30</u>	<input checked="" type="checkbox"/> CONTAMINATED SOIL			
		<input type="checkbox"/> CLEAN SOIL			
		<input type="checkbox"/> OTHER			
TOTAL ▶				\$	

Signed [Signature] IN 11 A.M. / P.M.
 OUT [Signature]

APPENDIX G
Manifests for Transport of 550-Gallon
Underground Storage Tank and Liquid Contents

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-852-7330

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 09 8 2 4 8 4 0 0 8 0 0 0 0 1 2		Manifest Document No. 0 0 0 0 0 1 2		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address CURCO STEEL SYSTEMS 536 CLEVELAND AVE, ALBANY CA. 94710						A. State Manifest Document Number 90035364											
4. Generator's Phone (415) 526-8560						B. State Generator's ID											
5. Transporter 1 Company Name H & H Ship Service Company			6. US EPA ID Number CA 00 0 0 4 7 7 1 1 1 6 8			C. State Transporter's ID 103581		D. Transporter's Phone (415) 543-4835									
7. Transporter 2 Company Name			8. US EPA ID Number			E. State Transporter's ID		F. Transporter's Phone									
9. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107						10. US EPA ID Number CA 00 0 0 4 7 7 1 1 1 6 8											
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. HAZARDOUS WASTE LIQUID N.O.S. ORM-E NA 9189						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.					
						0 0 1 1		T T		0 1 2 0 1 0		g		State		EPA/Other	
														State		EPA/Other	
														State		EPA/Other	
														State		EPA/Other	
J. (Additional Descriptions for Materials Listed Above) FUEL, OIL AND WATER						K. Handling Codes for Wastes Listed Above a. 01											
15. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR JOB #4509																	
18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name T. F. FANLEY				Signature <i>T. F. Fanley</i>				Month Day Year 10/5/25/90									
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name WAYMON H. McDONALD				Signature <i>Waymon H. McDonald</i>				Month Day Year 10/5/25/90									
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month Day Year									
19. Discrepancy Indication Space																	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Ruston Shaddock																	
Signature <i>Ruston Shaddock</i>				Signature <i>[Signature]</i>				Month Day Year 05/25/90									

Do Not Write Below This Line

Yellow: TSD/ SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

Please print or type. (Form designed for use on elite, 12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D 9 8 2 4 8 4 0 0 8 0 0 0 1 1		Manifest Document No. 0 0 1 0 1 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CUROCO STEEL SYSTEMS 536 Cleveland Avenue, Albany, CA 94710						A. State Manifest Document Number 90035356			
4. Generator's Phone (415) 526-8560						B. State Generator's ID CA D 9 8 2 4 8 4 0 0 8			
5. Transporter 1 Company Name H & H Ship Service Company			6. US EPA ID Number CA D 0 0 4 7 7 1 1 1 6 8			C. State Transporter's ID 103598		D. Transporter's Phone (415) 543-4835	
7. Transporter 2 Company Name			8. US EPA ID Number			E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107						10. US EPA ID Number CA D 0 0 4 7 7 1 1 1 6 8		G. State Facility's ID CA D 0 0 4 7 7 1 1 1 6 8	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)						0 10 11	T IP	0 10 15 10 10	P
b.									State: EPA/Other:
c.									State: EPA/Other:
d.									State: EPA/Other:
J. Additional Descriptions for Materials Listed Above PUMPED OUT 500 gallon tank last containing gasoline. Tank inerted with dry ice for transport.						K. Handling Codes for Wastes Listed Above a. 01		b.	
15. Special Handling Instructions and Additional Information JOB #4502 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name JACK H JENNINGS			Signature <i>Jack H Jennings</i>			Month Day Year 0 5 2 5 9 0			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name WARREN S. BRESLIN			Signature <i>Warren S. Breslin</i>			Month Day Year 0 5 2 5 9 0			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name			Signature			Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Cleveland Valley						Signature <i>[Signature]</i>			Month Day Year 0 5 2 5 9 0

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-SEWER WITH THE NATIONAL TOXIC INFORMATION CENTER 1-800-424-6869

GENERATOR

TRANSPORTER

FACILITY

JUN 18 1990

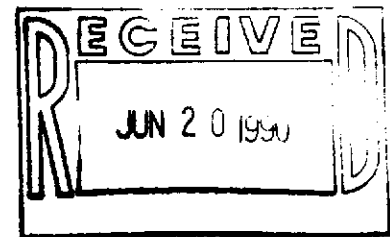
Do Not Write Below This Line

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

APPENDIX H

**Laboratory Analytical Reports and Chain-of-Custody Documentation
for Soil and Ground Water Samples Collected During
Underground Storage Tank Removal and Additional Soil Excavation**

Analytical Report



LOG NO: E90-05-792

Received: 25 MAY 90

Reported: 12 JUN 90

Dr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
05-792-1	South Wall @ 3'	25 MAY 90		
05-792-2	Pipeline @ 1.5'	25 MAY 90		
05-792-3	2' West @ 3'	25 MAY 90		
PARAMETER		05-792-1	05-792-2	05-792-3
Petroleum Hydrocarbons by IR, mg/kg		<50	<50	<50
Aromatic Hydrocarbons				
Date Analyzed		05.30.90	05.30.90	05.30.90
Dilution Factor, Times		1	1	1
Benzene, mg/kg		<0.1	<0.1	<0.1
Ethylbenzene, mg/kg		<0.1	<0.1	<0.1
Toluene, mg/kg		<0.1	<0.1	<0.1
Total Xylene Isomers, mg/kg		<0.1	<0.1	<0.1



Analytical Report

LOG NO: E90-05-792

Received: 25 MAY 90

Reported: 12 JUN 90

Dr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-792-4	North Wall @ 2'	25 MAY 90
PARAMETER	05-792-4	
Petroleum Hydrocarbons by IR, mg/kg	50	
Lead, mg/kg	10	
Organic Lead, mg/kg	<0.5	
Nitric Acid Digestion, Date	05.29.90	
Aromatic Hydrocarbons		
Date Analyzed	06.04.90	
Dilution Factor, Times	1	
Benzene, mg/kg	<0.1	
Ethylbenzene, mg/kg	<0.1	
Toluene, mg/kg	<0.1	
Total Xylene Isomers, mg/kg	<0.1	

Analytical Report

LOG NO: E90-05-792

Received: 25 MAY 90

Reported: 12 JUN 90

Dr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-792-5	Tank Contents	25 MAY 90
PARAMETER	05-792-5	
TPH - Semivolatile Hydrocarbons		
Date Analyzed	06.07.90	
Dilution Factor, Times	10	
C12 to C25 Hydrocarbons, mg/kg	500	
C12-C25 Fuel characterization,	---	
C25 to C35 Hydrocarbons, mg/kg	<100	
Other TPH - Semivolatile Hydrocarbons	---	
TPH-Volatile Hydrocarbons/BTEX		
Date Analyzed	06.01.90	
Dilution Factor, Times	10	
Benzene, mg/kg	<1.0	
Ethylbenzene, mg/kg	<1.0	
Toluene, mg/kg	<1.0	
Total Xylene Isomers, mg/kg	1.1	
C4 to C12 Hydrocarbons, mg/kg	250	
Other TPH-Volatile Hydrocarbons/BTEX	---	

Analytical Report

LOG NO: E90-05-792

Received: 25 MAY 90

Reported: 12 JUN 90

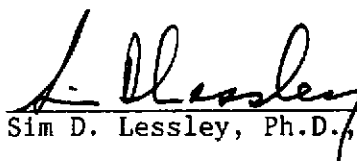
Dr. Robert Elgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
05-792-6	Pit Water #1	25 MAY 90
PARAMETER	05-792-6	
TPH - Semivolatile Hydrocarbons		
Date Analyzed	05.30.90	
Dilution Factor, Times	10	
C12 to C25 Hydrocarbons, ug/L	6500	
C12-C25 Fuel characterization, .	---	
C25 to C35 Hydrocarbons, ug/L	<5000	
Other TPH - Semivolatile Hydrocarbons	---	
TPH-Volatile Hydrocarbons/BTEX		
Date Analyzed	05.31.90	
Dilution Factor, Times	10	
Benzene, ug/L	<3	
Ethylbenzene, ug/L	<3	
Toluene, ug/L	3.5	
Total Xylene Isomers, ug/L	12	
C4 to C12 Hydrocarbons, ug/L	3500	
Other TPH-Volatile Hydrocarbons/BTEX	---	


Sim D. Lessley, Ph.D., Laboratory Director



CHAIN-of-CUSTODY FORM

PROJECT NAME: <u>Curoco</u>	COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES:										COMMENTS			
					TVH 8015 mod	TEH 8015 mod	BTEX 8020	TPH 418.1	total lead	organic lead								
ENVIRON SAMPLE ID.																		
South Wall @ 3'	5/25	DS	soil	1		X	X									1		
North Wall @ 2'	}	}	}	1		X	X	X	X							4		
Pipeline @ 1 1/2'				1		X	X										2	
2' West @ 3'				1		X	X											3
Pit Water #1				↓	Water	6	X	X	X									6
Tank Contents	↓	DS	soil	1	X	X	X									5		
TOTAL				14														

Relinquished by:

Wendy Smith

Date:

5/25/90

Time:

3:43pm

Received by:

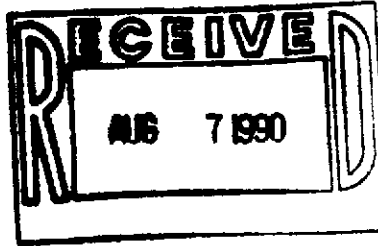
Howard

Company:

Date:

Time:

Analytical Report



LOG NO: E90-07-525

Received: 23 JUL 90

Reported: 02 AUG 90

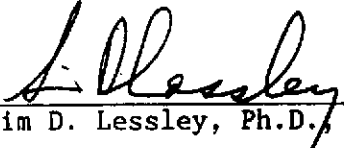
Dr. Robert Ellgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332C

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
07-525-1	A: Tank Contents	23 JUL 90		
07-525-2	B: Stockpile	23 JUL 90		
07-525-3	C: Stockpile	23 JUL 90		
PARAMETER		07-525-1	07-525-2	07-525-3
TPH - Modified 8015				
Date Analyzed		07.25.90	07.25.90	07.25.90
Dilution Factor, Times		1	1	1
Carbon Range, .		C12-C16	---	---
Total Fuel Hydrocarbons, mg/kg		80	<5	<5
Fuel Characterization, .		---	---	---
Other TPH - Modified 8015		---	---	---
TPH - Volatile Hydrocarbons				
Date Analyzed		07.31.90	07.31.90	07.31.90
Dilution Factor, Times		1	1	1
C4 to C12 Hydrocarbons, mg/kg		1.1	0.1	<0.1
Fuel Characterization, .		---	---	---


Sim D. Lessley, Ph.D., Laboratory Director

CHAIN OF CUSTODY RECORD

BCA Log Number E9007525

Client name ENVIRON Corporation				Project or PO# 03-1332C		Analyses required									
Address 5820 Shellmound St., Suite 700				Phone # 655-7400		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Mod. 8015 TVH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Mod. 8015 TEH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">448-1-TPH*</div> </div>									
City, State, Zip Emeryville, CA 94608			Report attention Robert Ellgas												
Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by D. Seutter	Number of containers	Remarks									
				Sample description (10)											
	7-23	10:50	SO	A: tank contents	1	X	X	X							1 week
	7-23	10:50	SO	B: stock pile	1	X	X	X							turn around
	7-23	10:50	SO	C: stock pile	1	X	X	X							time please
															* Cancelled
															Based on verbal
															agreement
															w/ Robert Ellgas
															07.23.90

Signature	Print Name	Company	Date	Time
Relinquished by <i>Drew Seutter</i>	Drew Seutter	ENVIRON	7/23/90	12:02
Received by <i>H. Thong</i>	H. THONG (R. H. H. H.)	RCA	7/23/90	12:02
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

B C ANALYTICAL

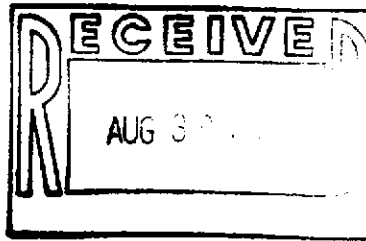
- 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300
- 801 Western Avenue, Glendale, CA 91201 (818) 247-5737
- 1200 Pacific Avenue, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge
GW—Groundwater SO—Soil OT—Other PE—Petroleum

Analytical Report



LOG NO: E90-08-410

Received: 17 AUG 90

Reported: 27 AUG 90

Dr. Robert Ellgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332D

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
08-410-1	D	17 AUG 90	
08-410-2	E	17 AUG 90	
PARAMETER		08-410-1	08-410-2
TPH - Modified 8015			
Date Analyzed		08.22.90	08.22.90
Dilution Factor, Times		1	1
Carbon Range, .		---	C12-C18
Total Fuel Hydrocarbons, mg/kg		<5	100
Other TPH - Modified 8015		---	---
TPH - Volatile Hydrocarbons			
Date Analyzed		08.22.90	08.22.90
Dilution Factor, Times		1	1
C4 to C12 Hydrocarbons, mg/kg		<0.1	0.4
Other TPH - Volatile Hydrocarbons		---	---



Analytical Report

LOG NO: E90-08-410

Received: 17 AUG 90

Reported: 27 AUG 90

Dr. Robert Ellgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

Project: 03-1332D

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
08-410-3	F	17 AUG 90
PARAMETER	08-410-3	
Petroleum Hydrocarbons (418.1), mg/kg	230	
Aromatic Hydrocarbons		
Date Analyzed	08.19.90	
Dilution Factor, Times	1	
Benzene, mg/kg	<0.005	
Ethylbenzene, mg/kg	<0.005	
Toluene, mg/kg	<0.005	
Total Xylene Isomers, mg/kg	<0.005	

Samples were analyzed by BC Analytical's Anaheim laboratory.
Rush results were transmitted by facsimile to Dr. Robert Ellgas on 08.27.90.
T. Blake 08.27.90


Sim D. Lessley, Ph.D., Laboratory Director

PROJECT NAME: <u>Curcio</u>	COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES:										COMMENTS				
					BTEX (8020)	TPH (418.1)	TVH (Mod 8015)	TEH (Mod 8015)	/										
D	8/17	TLS	SOIL	1		X	X												
E	8/17	TLS	SOIL	1		X	X												REPORT TO
F	8/17	TLS	SOIL	1	X	X													REPORT ANALYSIS
TOTAL	X	X	X	3	1	1	2	2											

Relinquished by:

Date:

Time:

Received by:

Company:

Date:

Time:

Todd J. Stear

8/19/90

1115

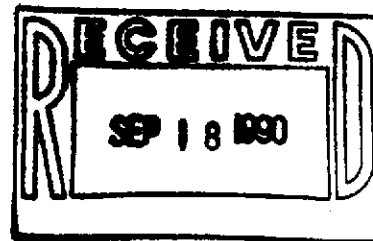
[Signature]

SA

8/19/90

1115

Analytical Report



LOG NO: E90-08-699

Received: 30 AUG 90
Reported: 11 SEP 90

Dr. Robert Ellgas
Environ Corporation
5820 Shellmound Street, Suite 700
Emeryville, California 94608

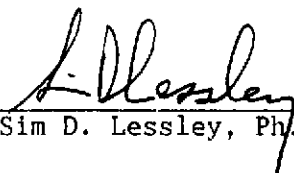
Project: 03-1332D

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
08-699-1	G-2	30 AUG 90		
08-699-2	H-2	30 AUG 90		
08-699-3	I-2	30 AUG 90		
PARAMETER		08-699-1	08-699-2	08-699-3
Sample Held, Not Analyzed		---	HELD	HELD
Petroleum Hydrocarbons (418.1), mg/kg		<50	---	---

Results were reported to Dr. Robert Ellgas by voice mail on 09.07.90.
M. Janney 09.07.90


Sim D. Lessley, Ph.D., Laboratory Director





BATCH QC REPORT: Definitions and Terms

Accuracy	The ability of a procedure to determine the "true" concentration of an analyte
Precision	The reproducibility of a procedure demonstrated by the agreement between analyses performed on either duplicates of the same sample or a pair of duplicate spikes
Batch	A group of samples analyzed sequentially using the same calibration curve, reagents, and instrument
Laboratory Control Standard (LCS)	Laboratory reagent water spiked with known compounds and subjected to the same procedures as the samples. The LCS thus indicates the accuracy of the analytical method and, because it is prepared from a different source than the standard used to calibrate the instrument, it also serves to double-check the calibration
Matrix QC	Quality control tests performed on actual client samples. For most inorganic analyses, the laboratory uses a pair of duplicate samples and a spiked sample. For most organic analyses, the laboratory uses a pair of spiked samples (duplicate spikes)
LC Result	Laboratory result of an LCS analysis
LT Result	Expected result, or true value, of the LCS analysis
R1, R2 Result:	Result of the analysis of replicate aliquots of a sample, with R1 indicating the first analysis of the sample and R2 its corresponding duplicate; used to determine precision
S1, S2 Result	Result of the analysis of replicate spiked aliquots, with S1 indicating one spike of the sample and S2 the second spike; used to determine precision and accuracy
R Bar Result	The average of replicate analysis results
S Bar Result:	The average of spike analysis results
True value	The theoretical, or expected, result of a spike sample analysis
Percent Recovery	The percentage of analyte recovered. For LCS, the percent recovery calculation is: $LC + LT \times 100$ For spike recoveries, the percent recovery calculation is: $\frac{(\text{S Bar} - \text{Sample Concentration})}{\text{Spike Amount}} \times 100$
Relative Percent Difference (RPD)	Calculated using one of the following: $\frac{(R1 - R2) \times 100}{(R1 + R2) + 2}$ $\frac{(S1 - S2) \times 100}{(S1 + S2) + 2}$
Blank Result	The result of the analysis of a method blank, which is reagent water that is analysed using the same reagents, instruments and procedures as the samples in a batch; used to determine laboratory contamination
Reporting Detection Limit (RDL)	BCA-assigned limit based on—but not the same as—method detection limits (MDLs) determined using EPA guidelines

: ORDER PLACED FOR CLIENT: Environ Corporation 9008699 :
: BC ANALYTICAL : EMVL LAB : 11:15:13 12 SEP 1990 - P. 1 :
=====

SAMPLES... SAMPLE DESCRIPTION.. DETERM CODE.... DATE.... METHOD..... EQUIP. BATCH ID.NO
ANALYZED

9008699*1	G-2	IR.PETROHC	09.07.90	418.1	513-03	84	7453
9008699*2	H-2	HOLD	09.05.90				6926
9008699*3	I-2	HOLD	09.05.90				6926

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9008699

DATE REPORTED : 09/12/90

Page 1

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
Petroleum Hydrocarbons (418.1)	09.07.90	84	300	300	mg/kg	100

BC ANALYTICAL

BATCH QC REPORT

ORDER: E9008699

Page 1

DATE REPORTED : 09/12/90

MATRIX QC PRECISION (DUPLICATES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	R1 RESULT	R2 RESULT	UNIT	RELATIVE %DIFF
Petroleum Hydrocarbons (418.1)	09.07.90	84	<50	<50	mg/kg	NA

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9008699

DATE REPORTED : 09/12/90

Page 1

MATRIX QC ACCURACY (SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	SBAR RESULT	TRUE RESULT	RBAR RESULT	UNIT	PERCENT RECOVERY
Petroleum Hydrocarbons (418.1)	09.07.90	84	240	300	<50	mg/kg	80

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9008699

Page 1

DATE REPORTED : 09/12/90

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT
Petroleum Hydrocarbons (418.1)	09.07.90	84	0	50	mg/kg

CHAIN-of-CUSTODY FORM

PROJECT NAME: <u>CINCO</u>	COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>*TPH 418.1*</u>										COMMENTS		
ENVIRON SAMPLE ID.																	
G-2	8/30	SWA	Soil	1	✓												*One week turnaround
H-2	↓	↓	↓	1	1												Hold H-2 + I-2
I-2	↓	↓	↓	1	1												until results are determined.
TOTAL	×	×	×	3	3												

Relinquished by: see SWA

Date: 8/30/90

Time: 11:00

Received by: [Signature]

Company: BCA

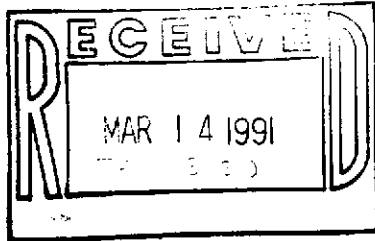
Date: 8-30 90

Time: 4:00pm



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900



DATE RECEIVED: 02/26/91
DATE REPORTED: 03/12/91

LAB NUMBER: 103088

CLIENT: ENVIRON

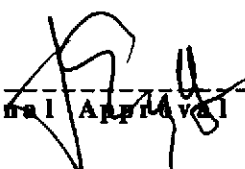
REPORT ON: ONE SOIL SAMPLE

PROJECT ID: 03-1332D
LOCATION: CUROCO

RESULTS: SEE ATTACHED



QA/QC Approval



Final Approval

LABORATORY NUMBER: 103088
 CLIENT: ENVIRON
 JOB #: 03-1332D
 LOCATION: CUROCO

DATE RECEIVED: 02/26/91
 DATE ANALYZED: 03/08/91
 DATE REPORTED: 03/12/91

EPA 418.1: Total Recoverable Petroleum Hydrocarbons by IR
 Extraction Method: EPA 3550

LAB ID	CLIENT ID	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
103088-1	N-extra @ 2.5'	16	10

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	108

ENVIRON

Counsel in Health and Environmental Science

CHAIN-of-CUSTODY FORM

LOG # 103088

Sheet 1 of 1
5820 Shellmound St, Suite 700
Emeryville, California 94608
(415) 655-7400

PROJECT NAME: <u>Curaco</u> CASE NO.: <u>03-1332D</u>	COLLECTION DATE	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>TPH by EPA 418.1</u>	
ENVIRON SAMPLE ID.	COMMENTS					
-1 N-extra @ 2 1/2'	2/26	DS	soil	1	X	Normal turn
						around time
						please
						send report
						to Dr. Robert
						Ellgas please
TOTAL	X	X	X	1	1	

Relinquished by: [Signature]

Date: 2/26/91

Time: 5:40 pm

Received by: [Signature]

Company: CURUS COMPANY

Date: 2/26/91

Time: 17:40