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REPORT
CONCRETE TANK AND DEBRIS REMOVAL
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

 **DAMES & MOORE**

JULY 1992
PROJECT NO. 00173-072-04

DAMES & MOORE

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July 22, 1992

Mr. Val L. Siebal
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California Environmental Protection Agency
10151 Croydon Way, Suite 3
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Attention: Mr. James L. Tjosvold, P.E., Chief
Sacramento Responsible Party Unit
Site Mitigation Branch

Re: Transmittal of Report
Concrete Tank and Debris Removal
Union Pacific Railroad Yard
Sacramento, California
Project No. 00173-072-044

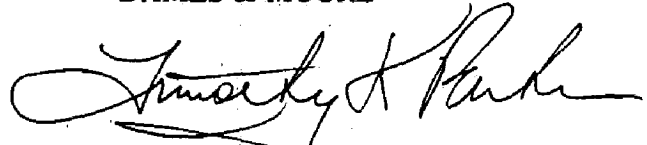
Dear Mr. Tjosvold:

Union Pacific Railroad Company (UPRR) has requested that Dames & Moore transmit the above-referenced report. Presented in the report is a summary of the activities conducted to remove an existing 72,000-gallon concrete underground tank, several piles of asphalt and concrete, and other non-hazardous debris from the UPRR Sacramento Yard. Additionally, stockpiled soils and pipes containing hydrocarbons (predominantly motor oil and bunker "C" oil range) were removed from the yard.

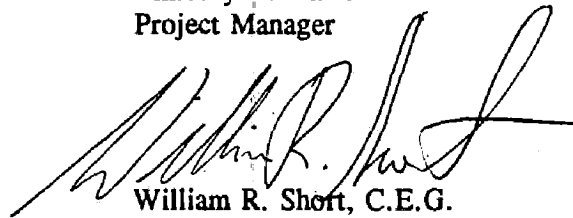
If you have any questions or require further clarification, please contact Tim Parker at (916) 387-7527.

Sincerely,

DAMES & MOORE



Timothy K. Parker
Project Manager



William R. Short, C.E.G.
Senior Geologist

Enclosure
cc: Distribution List

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 SACRAMENTO, CALIFORNIA
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REPORT
CONCRETE TANK AND DEBRIS REMOVAL
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

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CONCRETE TANK AND DEBRIS REMOVAL
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA**

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REPORT
CONCRETE TANK AND DEBRIS REMOVAL
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1.0 INTRODUCTION

Presented in this report is a summary of activities conducted to remove a 72,000-gallon underground concrete tank, several piles of asphalt and concrete, and other non-hazardous debris from the Union Pacific Railroad (UPRR) Sacramento Yard. The 72,000-gallon underground concrete tank (Figure 1) was discovered within the fenced inactive portion of the site during the Phase 1 Remedial Investigation (RI). Records indicate that the tank was used to store bunker "C" oil. During the Phase 1 RI, a groundwater monitoring well (MW-5) was installed directly downgradient from the tank. During three years of quarterly groundwater monitoring, neither solvents nor petroleum hydrocarbons have been detected in well MW-5.

During the Phase 2 RI, the contents of the tank were removed and disposed of properly and the interior of the tank was cleaned. Two soil samples were collected from beneath the tank bottom by breaking through the reinforced concrete at two locations. Results reported from soil samples collected and analyzed indicated hydrocarbons were not present in soils beneath the tank.

There were a number of piles of debris on site (Figure 1). Several piles of asphalt and concrete were located adjacent to the northwest-southeast trending berm in the northern part of the inactive portion of the site. Additionally, there were several piles of miscellaneous non-hazardous debris including cardboard, paper, wire, wood, and plastic materials, in various portions of the inactive portion of the site, which had accumulated over the past several years during the RI field activities.

The Workplan for Concrete Tank and Debris Removal was prepared by Dames & Moore and submitted to the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) in February 1992. The Workplan was approved by the DTSC in March 1992. During May and early June 1992, the concrete tank and debris removal activities were performed in accordance with the Workplan and the Health and Safety Plan included in the Additional On-Site Soil and Groundwater Investigation Work Plan (Dames & Moore, 1991). The above-referenced Health and Safety Plan pertained to previous on-site activities, including excavations and potential chemical exposure.

2.0 PURPOSE AND SCOPE

The purpose of the tank removal was to properly abandon the tank, and eliminate the open top as a potential on-site safety hazard. The purpose of removing the miscellaneous debris was for aesthetics.

The scope of work as outlined in the Concrete Tank and Debris Removal Work Plan (Dames & Moore, February 1992) included the following activities:

- Sampling, chemically analyzing, and removing standing water from the tank;
- Collecting samples of the tank walls and chemically analyzing the samples for petroleum hydrocarbons;
- Demolishing and removing the walls and floor of the tank;
- Collecting soil samples from the bottom of the tank excavation and chemically analyzing the samples for petroleum hydrocarbons;
- Backfilling the tank excavation with imported fill and properly compacting the soil;
- Properly disposing of the concrete from the tank;
- Sampling and chemically analyzing asphalt and concrete debris piles; and
- Removing and disposing of asphalt, concrete and miscellaneous debris piles.

Additional activities completed during this task included:

- Removing and properly disposing of stockpiled soils and pipes containing petroleum hydrocarbons; and
- Removal of a transformer from the site.

3.0 TANK AND PIPING REMOVAL AND DISPOSAL

Tank and associated piping removal and disposal activities were conducted on weekdays from period May 4, 1992, through June 5, 1992. Construction activities were conducted by U.S.P.C.I., a licensed excavation and disposal contractor under the direct supervision of Dames & Moore. Sampling activities were performed by Dames & Moore. Analytical samples were submitted to D&M Laboratories of Petaluma, California, Superior Precision Analytical of San Francisco, California, and Eureka Laboratories, Inc., of Sacramento, California. All laboratories are certified by the DTSC.

Prior to removing the tank, a permit was obtained from the Sacramento County Environmental Management Department (SCEMD). The Sacramento City Fire Department and the SCEMD were notified 48 hours prior to the start of removal activities.

3.1 TANK REMOVAL AND DISPOSAL

3.1.1 Removal of Water From the Tank

Storm run-off water from rainfall events had collected in and nearly filled the tank prior to removal. On March 23, 1992, Dames & Moore collected a sample of the accumulated water and submitted it to Eureka Laboratories for analysis. The sample was analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH) by EPA Method 8015, Modified. Gasoline range, diesel range, or motor oil range petroleum hydrocarbons were not detected in the sample. Analytical results are summarized in Table 1 and a copy of the analytical laboratory report is provided in Appendix A.

The DTSC was contacted and permission was requested to pump the water from the tank into an existing on-site depression located approximately 100 feet southeast of the tank. Based on the analytical results from the water sample collected from the tank, the DTSC approved pumping the water from the tank onto the ground. The water was pumped from the tank to the on-site depression on April 8 and April 9, 1992.

3.1.2 Concrete Tank Sampling and Analyses

Prior to removal of the tank, four representative samples of the concrete were collected from the tank walls. The samples were collected by drilling a 1/2-inch diameter core through the center of each wall. Approximately 12 inches of core was recovered at each sample location. Hydrocarbon staining approximately 1/2 to 3/4 inch thick was visible in the concrete cores originating from the tank interior side.

The four concrete core samples were submitted to Superior Precision Analytical Laboratory in San Francisco, California for compositing and chemical analysis. The four concrete cores were composited into one sample by the laboratory by pulverizing and weighing out an equal mass from each core then combining them into one sample. The composite sample was analyzed by EPA test methods for the following parameters:

- Waste Extraction Test (Wet-California Code of Regulations, Title 22) - arsenic, copper, lead, and zinc;
- Toxicity Characteristic Leaching Potential (TCLP) - arsenic, lead, and volatile organic compounds;
- Total Motor Oil Range Petroleum Hydrocarbons (EPA Method 8015 Modified); and
- Oil and Grease (EPA Method 5520F — formerly 503E).

Reported results indicated the presence of oil and grease range petroleum hydrocarbons at 580 mg/kg and motor oil range petroleum hydrocarbons at 800 mg/kg. The lab reported that the pattern of peaks observed in the chromatogram for the motor oil range hydrocarbons was not typical of motor oil. This may have been due to the bunker "C" oil historically stored in the tank. Analytical results are summarized in Tables 1, 2 and 3, and copies of analytical laboratory reports are provided in Appendix A.

3.1.3 Tank Destruction and Removal

On May 4, 1992 U.S.P.C.I. initiated demolition of the concrete tank utilizing an excavator with a hammer attachment (hoe-ram), a D-6 Caterpillar tractor, a backhoe, a large front-end loader, and a water truck. The hoe-ram was used to break the concrete into manageable blocks and the backhoe was used to remove the concrete blocks from the excavation. The concrete blocks and associated reinforcement bars were stockpiled north of the excavation. Large pieces of reinforcement bars were cut into smaller pieces and placed in a separate stockpile.

3.1.4 Soil Sample Collection and Analyses

After removal of the concrete tank, six soil samples were collected from the bottom of the excavation (17 to 18 ft bgs). Due to the depth of the excavation and for safety, samples were collected using a backhoe. Since there was no observed staining of the soil, samples were collected in a systematic pattern in accordance with the Workplan (Dames & Moore, 1992). See Figure 2 for sample locations.

Soil samples were collected from the backhoe bucket by manually pushing a 2 1/2-inch diameter by 6-inch long stainless steel ring into the soil. Samples were screened with a Photo Ionization Detector

(PID) for the presence of volatile organic compounds. The ends of the sample ring were covered with teflon sheeting, capped with plastic end caps, properly labeled, and sealed in plastic bags. The samples were then placed in a cooler chilled with blue ice for transport to the analytical laboratory.

Samples were shipped under standard chain-of-custody record to D & M Laboratories in Petaluma, California for analysis by EPA Method 8015 Modified for Total Petroleum Hydrocarbons (TPH). To evaluate the appropriate petroleum hydrocarbons range for analysis, a fuel fingerprint survey was performed on one of the six samples. Results of the fuel fingerprint survey, which was semi-quantitative, indicated the presence of bunker "C" oil at 61.7 mg/kg. As a result, the samples were analyzed for bunker "C" oil range petroleum hydrocarbons.

D & M Laboratories was requested to analyze the six soil samples for bunker "C" oil range petroleum hydrocarbons by EPA Method 8015 Modified. However, D&M Laboratories could not meet the required one week turnaround time, so Superior Precision Analytical of San Francisco was requested to do the analysis. A courier picked the samples up at D & M Laboratories and transported them under chain-of-custody to Superior Precision Analytical for analysis.

Bunker "C" oil was not reported in any of the six soil samples analyzed. Analytical results are summarized in Table 4, and copies of analytical laboratory reports are provided in Appendix A.

3.1.5 Backfilling and Compaction

Following receipt of analysis of soil samples collected from the tank excavation floor, copies of the analytical laboratory reports were provided to the SCEMD. Based on the reported analytical results, the SCEMD indicated that no further action was required at the tank site. The excavation was backfilled with fill soil and compacted. Fill soil was imported from Granite Construction Company of Sacramento, California. A sheepsfoot vibratory roller was used to compact the soil.

3.1.6 Concrete Disposal

Based on the reported analytical results of the concrete tank sampling, the concrete was considered non-hazardous for disposal purposes. The concrete was loaded into UPRR railcars and transported to U.S.P.C.I.'s Grassy Mountain Facility Landfill in Utah. Also loaded into the UPRR railcars and transported to Utah was the concrete from the tank cover, which was previously stockpiled approximately 50 feet north of the tank (Figure 1). The concrete was placed in an industrial (Class 2) cell in the landfill. Copies of railcar manifests are provided in Appendix B.

3.2 TANK PIPING REMOVAL AND DISPOSAL

3.2.1 Piping Excavation and Removal

During concrete tank destruction and removal, additional steel piping associated with the tank was uncovered. The piping was located adjacent to and south of the tank. Two 2-inch diameter pipes, one 4-inch diameter pipe, and one 5-inch diameter pipe running to the west were uncovered approximately 15 feet south of the tank excavation. The pipes were intercepted approximately 2-3 feet below ground surface. Adjacent to the product piping was a 12-inch steel water main. The soils directly beneath and surrounding the piping were visibly stained black and contained what appeared to be bunker "C" oil.

A backhoe was used to remove the piping and excavate stained soil surrounding the piping. The resulting excavation was approximately 90 feet long by 10 feet wide by 8 feet deep. The water pipe was unbolted in sections and removed from the excavation. The four product pipes were removed up to the west side of the inactive yard fence. Although the product piping continues into the active yard area, the piping was not removed in order to prevent disrupting active site operations. The open end of the product pipes remaining in the ground were plugged with quick-drying cement. The piping was then stockpiled in an area just north of the tank. The excavated stained soil was segregated into a separate stockpile south of the tank.

3.2.2 Soil Sample Collection and Analyses

Following removal of the piping and excavation of visibly stained soils, two soil samples were collected from the excavation floor beneath the former piping. Due to the depth of the excavation and for safety reasons, samples were collected using a backhoe.

Soil samples were collected from the backhoe bucket by manually pushing 2 1/2-inch diameter by 6-inch long stainless steel rings into the soil. After collecting the sample, the ends of the sample ring were covered with teflon sheeting, capped with plastic end cap, properly labeled, and sealed in plastic bags. The samples were placed in a cooler chilled with blue ice for transport to the analytical laboratory. Samples were shipped under chain-of-custody to Eureka Laboratories, Inc., of Sacramento, California for TPH analysis by EPA Method 8015 Modified.

In one sample (72KT-P2), diesel range hydrocarbons were reported at 25 mg/kg, and motor oil range hydrocarbons were reported at 115 mg/kg. There were no reported detections of hydrocarbons in the other sample (72KT-P1). Analytical results are summarized in Table 4 and copies of analytical laboratory reports are provided in Appendix A.

3.2.3 Backfilling and Compaction

Following receipt of analysis of soil samples collected from the piping excavation floor, the excavation was backfilled with fill soil and compacted. Fill soil was imported from Granite Construction Company of Sacramento, California. A sheepsfoot vibratory roller was used to compact the soil.

3.2.4 Piping and Soil Disposal

The piping and soil was considered non-hazardous for disposal purposes. The piping and soil was loaded into UPRR railcars and transported to U.S.P.C.I.'s Grassy Mountain Facility Landfill in Utah. The piping and soil was placed in an industrial cell in the landfill. Copies of railcar manifests are provided in Appendix B.

4.0 DEBRIS REMOVAL AND DISPOSAL

Approximately 2,500 yards of asphalt, concrete and other non-hazardous debris were removed from the site by U.S.P.C.I. Removal construction activities were conducted in a manner which minimized dust generation by applying potable water to the work area, and utilizing care in the operation of construction heavy equipment. Access to the work zones was controlled and limited to appropriate personnel.

4.1 ASPHALT AND CONCRETE SAMPLING AND ANALYSES

Prior to removal of the asphalt and concrete, four representative samples of the asphalt and concrete were collected from the existing stockpiles. The samples were collected by chipping off pieces of asphalt and concrete and placing the pieces into wide-mouth glass jars with Teflon-lined lids. The containers were properly labeled and placed in a cooler chilled with blue ice for transport to the analytical laboratory.

The samples were shipped under chain-of-custody to D & M Laboratories for analysis of the following parameters:

- WET - Arsenic, copper, lead, and zinc; and
- TCLP - Arsenic, lead, and volatile organic compounds.

The four asphalt samples and the four concrete samples were laboratory composited into one sample each prior to analysis. Analytical results are summarized in Tables 1, 2, and 3, and copies of analytical laboratory reports are provided in Appendix A.

Results reported from analysis of the composite concrete sample indicated concentrations of arsenic, copper, and zinc at 0.57 mg/l, 0.130 mg/l, and 0.370 mg/l, respectively, by the WET method. Analytical results reported from the asphalt sample indicated concentrations of copper and zinc at 0.210 mg/l and 0.160 mg/l, respectively by the WET method. Levels of these detections are well below their respective total threshold limit concentrations (TTLC). There were no detections in either the concrete or asphalt composite sample by the TCLP method.

4.2 ASPHALT, CONCRETE, AND NON-HAZARDOUS DEBRIS REMOVAL AND DISPOSAL

Based on the analytical results of the asphalt and concrete samples, the asphalt and concrete debris piles were considered non-hazardous for disposal purposes. Asphalt and concrete debris, as well as other

miscellaneous non-hazardous debris, was loaded into trucks by a front-end loader, and transported to the Sacramento County Landfill by D & N Trucking of Orangevale, California. Approximately 182 truck loads of debris, classified as a Class III waste, were disposed of in the landfill. A list of the truck weight tickets and tonnage are provided in Appendix C.

5.0 ADDITIONAL REMOVAL AND DISPOSAL ACTIVITIES

Additional removal and disposal activities which were not included in the scope of the Concrete Tank and Debris Removal Work Plan (Dames & Moore, February 1992) included:

- Stockpiled soil removal and disposal; and
- Transformer removal and disposal.

5.1 STOCKPILED SOIL REMOVAL AND DISPOSAL

Approximately 300 cubic yards of soil had been stockpiled roughly 50 feet northeast of the 72,000 gallon tank during previous remedial investigation activities at the site. Analytical results reported from samples collected and analyzed from the stockpiled soil in May 1989 indicated the presence of low levels of TPH, diesel range hydrocarbons, gasoline range hydrocarbons, arsenic, copper, and lead in the soil. Copies of analytical laboratory reports are provided in Appendix A.

The stockpiled soil was considered non-hazardous for disposal purposes. The stockpiled soil was loaded into UPRR railcars and transported to U.S.P.C.I.'s Grassy Mountain Facility Landfill in Utah. The soil was placed in an industrial cell in the landfill. Copies of railcar manifests are provided in Appendix B.

5.2 TRANSFORMER REMOVAL AND DISPOSAL

An out-of-service transformer was discovered along the east border of the site near the former Oil House Area (Figure 1). The transformer was located within a locked fenced area and was bolted to a concrete pad. A metal tag attached to the transformer indicated that it was Transformer No. 751258 manufactured by General Electric in Schenectady, New York, and had a capacity of 50 kilowatts. The metal plate also indicated patent pending dates which ranged from October 1896 to July 1907.

Sacramento Municipal Utility District (SMUD) was contacted and requested to sample the contents of the transformer for PCB's, and to remove the transformer from the site. In June, 1992 Mr. Marc Allison of SMUD informed Dames & Moore that the transformer was sampled, removed from the site, and was being stored at a SMUD facility in Sacramento pending laboratory analytical results.

SMUD submitted a sample of the contents of the transformer to Analytical Associates, Inc. of Sacramento for analysis of PCBs by EPA Method 8080. PCBs were not detected in the sample. A copy of the analytical laboratory report is provided in Appendix A.

Tables

TABLE 1
ANALYTICAL RESULTS: TOTAL PETROLEUM HYDROCARBONS
CONCRETE TANK SAMPLES
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

	CONCRETE TANK WATER	CONCRETE TANK CORES	
SAMPLE	72K-H2O	72KT-1,2,3,4	72KT-1,2,3,4
DATE	03/23/92	04/10/92	04/10/92
METHOD	8015 MOD	5520 F	8015 MOD
UNITS	mg/L (ppm)	mg/kg (ppm)	mg/kg (ppm)
OIL & GREASE	-	580.0	-
TPH/DIESEL	< 0.2	-	-
TPH/GASOLINE	< 0.1	-	-
TPH/MOTOR OIL	< 0.5	-	820.0 *

All units reported as mg/kg (ppm)

< = Constituent below detection limit. Detection limits may vary depending on interference by other sample constituents.

- = Parameter not analyzed.

* = The pattern of peaks observed in the chromatogram was not typical of motor oil.

Sample 72KT-1,2,3,4 is a composite sample.

TABLE 2
ANALYTICAL RESULTS: METALS
CONCRETE TANK, ASPHALT AND CONCRETE DEBRIS COMPOSITE SAMPLES
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

	CONCRETE TANK CORES		ASPHALT DEBRIS		CONCRETE DEBRIS	
SAMPLE	72KT-1,2,3,4	72KT-1,2,3,4	A-1,2,3,4	A-1,2,3,4	C-1,2,3,4	C-1,2,3,4
DATE	04/10/92	04/10/92	03/19/92	03/19/92	03/19/92	03/19/92
EXTRACTION	CA WET	TCLP	CA WET	TCLP	CA WET	TCLP
ARSENIC	<0.050	<0.100	<0.005	<0.005	0.057	<0.005
COPPER	<1.000	-	0.210	-	0.130	-
LEAD	<0.500	<0.500	<0.150	<0.150	<0.150	<0.150
ZINC	<0.500	-	0.160	-	0.370	-

All units reported as mg/L

< = Constituent below detection limit. Detection limits may vary depending on interference by other sample constituents.

- = Parameter not analyzed.

TABLE 3
ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
CONCRETE TANK, ASPHALT AND CONCRETE DEBRIS COMPOSITE SAMPLES
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

	CONCRETE TANK CORES	ASPHALT DEBRIS	CONCRETE DEBRIS
SAMPLE	72KT-1,2,3,4	A-1,2,3,4	C-1,2,3,4
DATE	04/10/92	03/19/92	03/19/92
EXTRACTION	TCLP	TCLP	TCLP
1,1,1-TRICHLOROETHANE	< 3	-	-
1,1,2,2-TETRACHLOROETHANE	< 3	-	-
1,1,2-TRICHLOROETHANE	< 3	-	-
1,1-DICHLOROETHANE	< 3	-	-
1,1-DICHLOROETHENE	< 3	< 5	< 5
1,2-DICHLOROBENZENE	< 3	-	-
1,2-DICHLOROETHANE	< 1	< 5	< 5
1,2-DICHLOROPROPANE	< 3	-	-
1,3-DICHLOROBENZENE	< 3	-	-
1,4-DICHLOROBENZENE	< 3	< 5	< 5
2-BUTANONE	< 20	<100	<100
2-CHLOROETHYL VINYL ETHER	< 3	-	-
2-HEXANONE	< 10	-	-
4-METHYL-2-PENTANONE	< 10	-	-
ACETONE	< 10	-	-
BENZENE	< 1	< 5	< 5
BROMODICHLOROMETHANE	< 3	-	-
BROMOFORM	< 3	-	-
BROMOMETHANE	< 10	-	-
CARBON DISULFIDE	< 3	-	-

All units reported as ug/L (ppb)

< = Constituent below detection limit. Detection limits may vary depending on interference by other sample constituents.
- = Parameter not analyzed.

TABLE 3 (cont.)
ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
CONCRETE TANK, ASPHALT AND CONCRETE DEBRIS COMPOSITE SAMPLES
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

	CONCRETE TANK CORES	ASPHALT DEBRIS	CONCRETE DEBRIS
SAMPLE	72KT-1,2,3,4	A-1,2,3,4	C-1,2,3,4
DATE	04/10/92	03/19/92	03/19/92
EXTRACTION	TCLP	TCLP	TCLP
CARBON TETRACHLORIDE	< 3	< 5	< 5
CHLOROBENZENE	< 3	< 5	< 5
CHLOROETHANE	< 10	-	-
CHLOROFORM	< 3	< 5	< 5
CHLOROMETHANE	< 10	-	-
CIS-1,2-DICHLOROETHENE	< 3	-	-
CIS-1,3-DICHLOROPROPENE	< 3	-	-
DIBROMOCHLOROMETHANE	< 3	-	-
ETHYL BENZENE	< 3	-	-
METHYLENE CHLORIDE	< 10	-	-
STYRENE	< 3	-	-
TETRACHLOROETHENE	< 3	< 5	< 5
TOLUENE	< 3	-	-
TOTAL XYLENES	< 3	-	-
TRANS-1,2-DICHLOROETHENE	< 3	-	-
TRANS-1,3-DICHLOROPROPENE	< 3	-	-
TRICHLOROETHENE	< 3	< 5	< 5
TRICHLOROFLUOROMETHANE	< 3	-	-
VINYL ACETATE	< 10	-	-
VINYL CHLORIDE	< 10	< 10	< 10

All units reported as ug/L (ppb)

< = Constituent below detection limit. Detection limits may vary depending on interference by other sample constituents.
- = Parameter not analyzed.

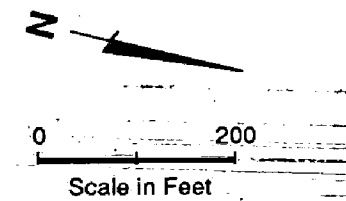
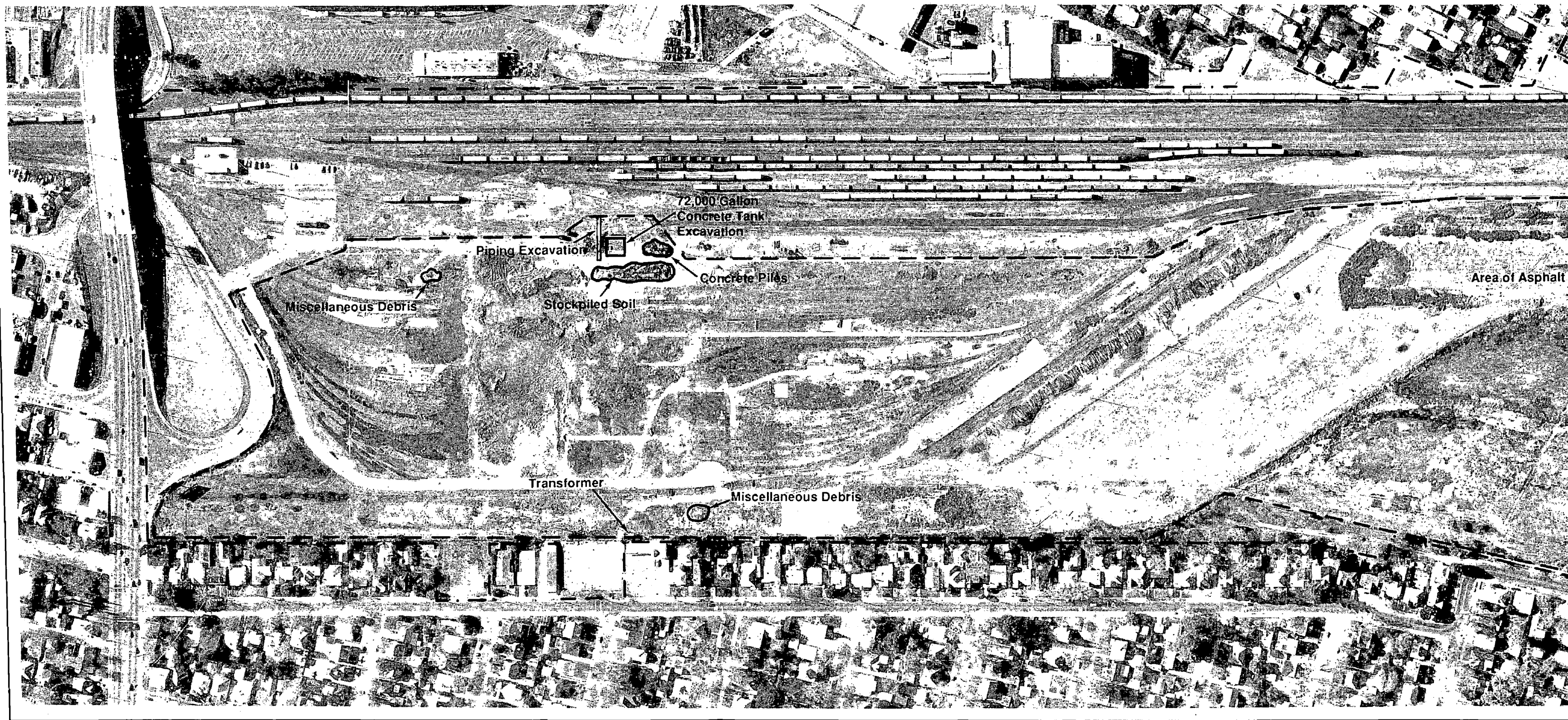
TABLE 4
ANALYTICAL RESULTS: TOTAL PETROLEUM HYDROCARBONS
TANK AND PIPING EXCAVATION FLOOR SAMPLES
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

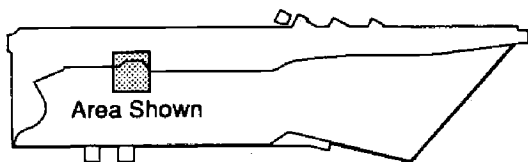
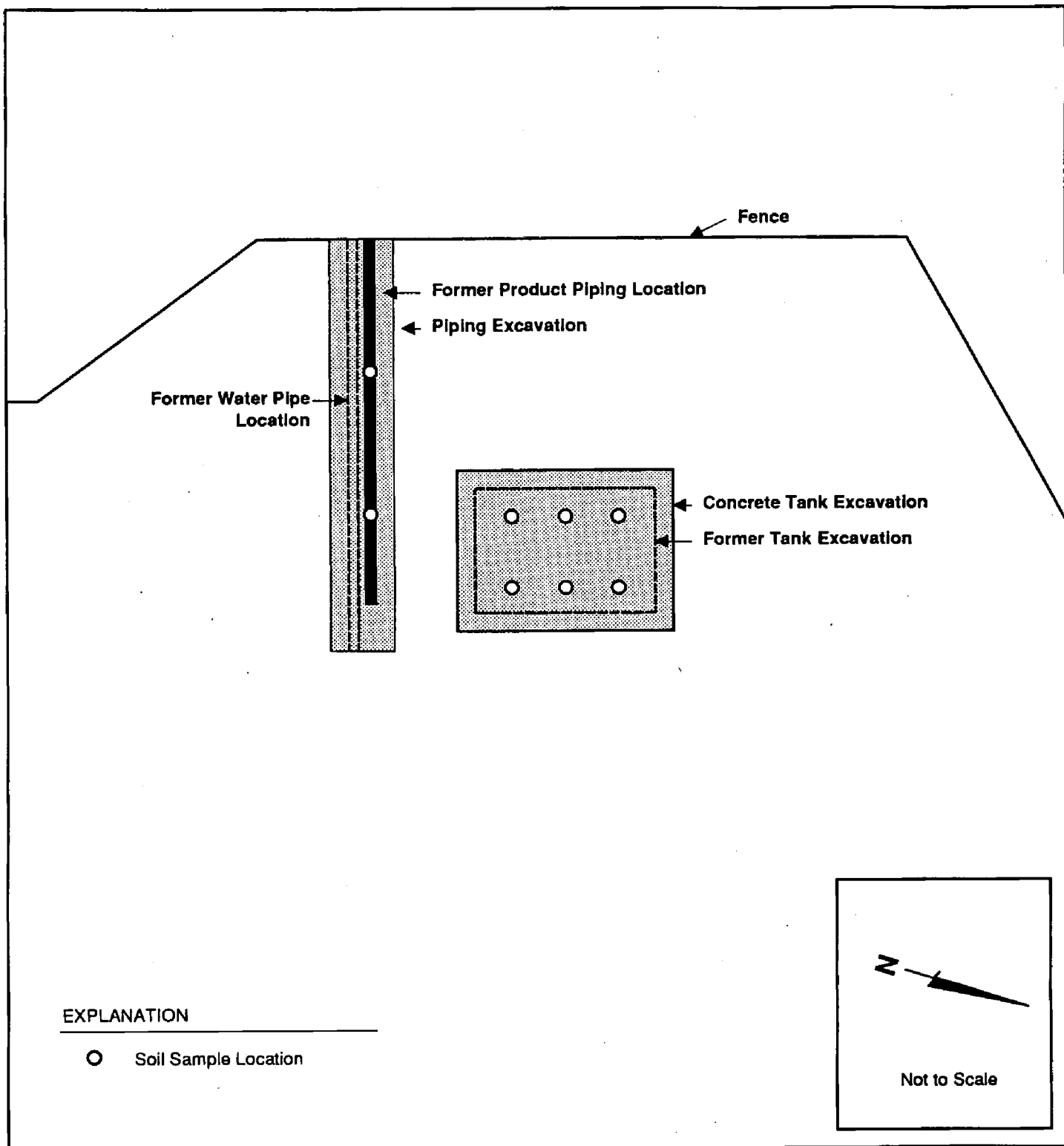
SAMPLE DATE	PIPING EXCAVATION FLOOR		TANK EXCAVATION FLOOR		
	72KT-P1 05/27/92	72KT-P2 05/27/92	72KT-S-1 05/06/92	72KT-S-2 05/06/92	72KT-S-3 05/06/92
TPH/BUNKER FUEL	-	-	< 10	< 10	< 10
TPH/DIESEL	< 10	25	-	-	-
TPH/GASOLINE	< 25	< 5	-	-	-
TPH/MOTOR OIL	< 10	115	-	-	-

All units reported as mg/kg (ppm)

< = Constituent below detection limit. Detection limits may vary depending on interference by other sample constituents.
- = Parameter not analyzed.

FIGURES





CONCRETE TANK AND PIPING EXCAVATION SCHEMATIC DIAGRAM

Union Pacific Railroad Yard
Sacramento, California
JULY 1992

Appendix A

APPENDIX A
COPIES OF ANALYTICAL LABORATORY REPORTS
AND CHAIN-OF-CUSTODY RECORDS



EUREKA LABORATORIES, INC.

Corporate Office:
6790 FLORIN PERKINS ROAD
SACRAMENTO, CA 95828
TEL: (916) 381-7953
FAX: (916) 381-4013

Branch Office:
17403 N.E. 28th STREET
REDMOND, WA 98052
TEL: (206) 885-0284
FAX: (206) 885-0284

Air Pollution
Chemical Analysis
Research & Testing
Environmental Studies
Robotics
Toxicology

April 3, 1992

Mr. Kevin Brown
DAMES & MOORE
9300 Tech Center Drive #100
Sacramento, CA 95826

Reference: Project #: 00173-072-044
Project: UPRR Sac.
ELI Order No.: 92-03-198

Dear Mr. Brown:

Eureka Laboratories, Inc. is pleased to submit a laboratory report for the subject project. This report presents analytical results for one (1) water sample for the following analysis:

<u>ANALYSIS</u>	<u>METHOD</u>	<u>SAMPLE ID.</u>
Total Petroleum Hydrocarbons	EPA 8015 (Modified)	72K-H20

Sincerely,
EUREKA LABORATORIES, INC.

By: Shao-Pin Yo
Shao-Pin Yo, Ph.D.
Laboratory Director

SPY/pvc

Attachment

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916)381-7953

Order No.: 92-03-198
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES AND MOORE
CONTRACT #: NA
PROJECT: UPRR SAC (00173-072-044)
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: NA
ELI SAMPLE ID: 9203198-02A
FILE ID: NA
SAMPLE ID: METHOD BLANK

DATE SAMPLED: NA
DATE RECEIVED: 03/23/92
DATE EXTRACTED: 03/24/92
DATE ANALYZED: 03/25/92
INSTRUMENT ID: SVG1
MATRIX: WATER
% MOISTURE: NA
REPORT WT: NA
SAMPLE VOL./WT.: 1000mL
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/L)	DETECTION LIMIT ppm (mg/L)
Gasoline Range	<.1	.1
Diesel Range	<.2	.2
Motor Oil Range	<.5	.5
Total Petroleum Hydrocarbons		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Samir Samaan

Chemist

04/01/92

Date

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No.: 92-03-198
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES AND MOORE
CONTRACT #: NA
PROJECT: UPRR SAC (00173-072-044)
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: NA
ELI SAMPLE ID: 9203198-06A
FILE ID: NA
SAMPLE ID: REAGENT SPIKE RECOVERY

DATE SAMPLED: NA
DATE RECEIVED: 03/23/92
DATE EXTRACTED: 03/24/92
DATE ANALYZED: 03/25/92
INSTRUMENT ID: SVG1
MATRIX: WATER
% MOISTURE: NA
REPORT WT: NA
SAMPLE VOL./WT.: 500mL

PETROLEUM HYDROCARBONS	CONCENTRATION %
Gasoline Range	NA
Diesel Range	76%
Motor Oil Range	NA
Total Petroleum Hydrocarbons	
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-
PEAK CARBON NO.	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

Reagent spike set is used due to insufficient sample provided.

Samir Samaan

Chemist

04/01/92

Date

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No.: 92-03-198
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES AND MOORE
CONTRACT #: NA
PROJECT: UPRR SAC (00173-072-044)
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: NA
ELI SAMPLE ID: 9203198-07A
FILE ID: NA
SAMPLE ID: REAGENT SPIKE RECOVERY DUP

DATE SAMPLED: NA
DATE RECEIVED: 03/23/92
DATE EXTRACTED: 03/24/92
DATE ANALYZED: 03/25/92
INSTRUMENT ID: SVG1
MATRIX: WATER
% MOISTURE: NA
REPORT WT: NA
SAMPLE VOL./WT.: 500mL

PETROLEUM HYDROCARBONS

CONCENTRATION

%

Gasoline Range	NA
Diesel Range	77%
Motor Oil Range	NA
Total Petroleum Hydrocarbons	

CARBON NO. RANGE

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

PEAK CARBON NO.

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

Reagent spike set is used due to insufficient sample provided.

Samir Samaan

Chemist

04/01/92

Date

6790 FLORIN PERKINS ROAD
TEL: (916) 381-7953
FAX: (916) 381-4013

RESULTS TO

CLIENT James + Moore
ADDRESS 8801 Folsom Blvd, #200
CONTACT Kevin Brown
PHONE 307-8800

INVOICE TO

CLIENT _____
ADDRESS SAME
CONTACT _____
P.O.# _____

SHIPPING
METHOD

hand
carry

ELI ORDER #

SHELF #

PROJECT REF #

PROJECT NAME

ANALYSIS REQUEST

[illegible]

ELI	CLIENT SAMPLE ID
10	

DATE/TIME
OF
SAMPLING

SAMPLE LOCATION

MATRIX

PRESERVATION

CONTAINER TYPE & NO.

FOIA b(7) D, b(7) C, b(7) E

1A 72K-H20

3/23/42
0930

72K-H20

11

11

1

1

1x12 glass

SAMPLER'S SIGNATURE

DATE/TIME

RELINQUISHED BY:

DATE/TIME

RECEIVED BY:

DATE/TIME

RECEIVED BY:

DATE/TIME

RELINQUISHED BY:

DATE/TIME

RECEIVED BY LAB:

DATE/TIME



3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Tim Parker
Dames & Moore
8801 Folsom Blvd., Suite 200
Sacramento, CA 95826

Client Code: DAMM7
Survey # UPPR-SACTO
Project/Release # 00173-072-044

Page 1

LABORATORY RESULTS

Date Collected: 03/19/92
Date Extracted: 03/26/92
Date Analyzed: 03/30/92

Laboratory Job No.: 920835
Date Received: 03/23/92
Date Reported: 04/06/92

ASSAY:
ARSENIC (EPA 7060)

MATRIX: SOIL, TCLP EXTRACT

LABNO SMPLNO	COMPOUND	FOUND mg/L	TCLP LEVEL	DET.LIM. mg/L
7102 A-1,2,3,4	AS	ND	5.0	0.005
7103 C-1,2,3,4	AS	ND	5.0	0.005
7104 MB	AS	ND		0.005
7105 MBS	AS	0.024	SPIKE LEVELS 0.025 mg/L	0.005
7106 MX	AS	ND		0.005
7107 MS	AS	0.023	0.025 mg/L	0.005
7108 MSD	AS	0.023	0.025 mg/L	0.005

THIS REPORT HAS BEEN REVIEWED
AND APPROVED FOR RELEASE.



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LABORATORY RESULTS

Date Collected: 03/19/92
Date Extracted: 03/24/92
Date Analyzed: 03/30/92

Laboratory Job No.: 920835
Date Received: 03/23/92
Date Reported: 04/06/92

ASSAY:
ARSENIC (EPA 7060)

MATRIX: SOIL, WET EXTRACT

LABNO	SMPLNO	COMPOUND	FOUND mg/L	CA STLC LEV	DET.LIM. mg/L
7102	A-1,2,3,4	AS	ND	5.0	0.005
7103	C-1,2,3,4	AS	0.057	5.0	0.005
7104	MB	AS	ND	SPIKE LEVELS 0.025 mg/L	0.005
7105	MBS	AS	0.024		0.005
7106	MX	AS	ND		0.005
7107	MS	AS	0.023	0.025 mg/L	0.005
7108	MSD	AS	0.023	0.025 mg/L	0.005



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LABORATORY RESULTS

Date Collected: 03/19/92
Date Extracted: 03/26/92
Date Analyzed: 04/01/92

Laboratory Job No.: 920835
Date Received: 03/23/92
Date Reported: 04/06/92

ASSAY: METAL SCAN BY ICP (EPA 6010)
TCLP EXTRACTION

LABNO	SMPLNO-ID	RESULTS	DET. LIM.
-----	-----	-----	-----
7102	A-1,2,3,4 SOIL PB	ND	TCLP LEVEL 5.0 0.15 mg/L
7103	C-1,2,3,4 SOIL PB	ND	TCLP LEVEL 5.0 0.15 mg/L
7104	MB SOIL PB	ND	0.15 mg/L
7105	MBS SOIL PB	1.1 mg/L	0.15 mg/L
7106	MX SOIL PB	ND	0.15 mg/L
7107	MS SOIL PB	0.96 mg/L	0.15 mg/L
7108	MSD SOIL PB	0.94 mg/L	0.15 mg/L

ND=Not Detected

NOTE: MBS, MS AND MSD WERE SPIKED AT 1.00 mg/L.



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LABORATORY RESULTS

Date Collected: 03/19/92
Date Extracted: 03/24/92
Date Analyzed: 04/01/92

Laboratory Job No.: 920835
Date Received: 03/23/92
Date Reported: 04/06/92

ASSAY: METAL SCAN BY ICP(EPA 6010)
WET EXTRACTION

LABNO	SMPLNO-ID	RESULTS	DET.	LIM.
-----	-----	-----	-----	-----
7102	A-1,2,3,4 SOIL		CA STLC LEVEL	
	CU	0.21 mg/L	25	0.050 mg/L
	PB	ND	5.0	0.15 mg/L
	ZN	0.16 mg/L	250	0.050 mg/L
7103	C-1,2,3,4 SOIL		CA STLC LEVEL	
	CU	0.13 mg/L	25	0.050 mg/L
	PB	ND	5.0	0.15 mg/L
	ZN	0.37 mg/L	250	0.050 mg/L
7104	MB SOIL			
	CU	ND		0.050 mg/L
	PB	ND		0.15 mg/L
	ZN	ND		0.050 mg/L
7105	MBS SOIL		SPIKE LEVELS	
	CU	0.515 mg/L	0.5 mg/kg	0.050 mg/L
	PB	1.1 mg/L	1.0 mg/kg	0.15 mg/L
	ZN	0.564 mg/L	0.5 mg/kg	0.050 mg/L
7106	MX SOIL			
	CU	ND		0.050 mg/L
	PB	ND		0.15 mg/L
	ZN	ND		0.050 mg/L
7107	MS SOIL		SPIKE LEVELS	
	CU	0.47 mg/L	0.5 mg/kg	0.050 mg/L
	PB	0.96 mg/L	1.0 mg/kg	0.15 mg/L
	ZN	0.49 mg/L	0.5 mg/kg	0.050 mg/L



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LABORATORY RESULTS

Laboratory Job No.: 920835

LABNO	SMPLNO-ID	RESULTS		DET. LIM.
-----	-----	-----		-----
7108	MSD SOIL		SPIKE LEVELS	
	CU	0.48 mg/L	0.5 mg/kg	0.050 mg/L
	PB	0.94 mg/L	1.0 mg/kg	0.15 mg/L
	ZN	0.510 mg/L	0.5 mg/kg	0.050 mg/L

ND=Not Detected



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LABORATORY RESULTS

Date Collected: 03/19/92
 Date Extracted: 03/25/92
 Date Analyzed: 03/26/92

Laboratory Job No.: 920835
 Date Received: 03/23/92
 Date Reported: 04/06/92

ASSAY:

PURGEABLES BY GC/MS (EPA 8240) WITH TCLP EXTRACTION

COMPOUNDS:	LAB#	7102	DET.	7103	DET.	7104	DET.
	SMP#	A-1,2,3,4	LIM.	C-1,2,3,4	LIM.	MB	LIM.
	dil.	1		1		1	
PURGEABLES		ug/L		ug/L		ug/L	
BENZENE		ND	5.0	ND	5.0	ND	5.
CARBON TETRACHLORIDE		ND	5.0	ND	5.0	ND	5.
CHLOROBENZENE		ND	5.0	ND	5.0	ND	5.
CHLOROFORM		ND	5.0	ND	5.0	ND	5.
1,4-DICHLOROBENZENE		ND	5.0	ND	5.0	ND	5.
1,2-DICHLOROETHANE		ND	5.0	ND	5.0	ND	5.
1,1-DICHLOROETHENE		ND	5.0	ND	5.0	ND	5.
TETRACHLOROETHENE		ND	5.0	ND	5.0	ND	5.
TRICHLOROETHENE		ND	5.0	ND	5.0	ND	5.
VINYL CHLORIDE		ND	10	ND	10	ND	10
2-BUTANONE		ND	100	ND	100	ND	100
SURROGATE RECOVERIES-QC							
1,2-DICHLOROETHANE-D4		95%		96%		94%	
TOLUENE-D8		100%		99%		98%	
4-BROMOFLUOROBENZENE		104%		105%		103%	



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LABORATORY RESULTS

Laboratory Job No.: 920835

COMPOUNDS:	LAB#	7105	DET.		DET.		DET.
	SMP#	MBS	LIM.	MX	LIM.	MS	LIM.
	dil.	1		1		1	
PURGEABLES		ug/L		ug/L		ug/L	
BENZENE	50	5.0	ND	5.0	48	5.0	
CARBON TETRACHLORIDE	ND	5.0	ND	5.0	ND	5.0	
CHLOROBENZENE	49	5.0	ND	5.0	46	5.0	
CHLOROFORM	ND	5.0	ND	5.0	ND	5.0	
1,4-DICHLOROBENZENE	ND	5.0	ND	5.0	ND	5.0	
1,2-DICHLOROETHANE	ND	5.0	ND	5.0	ND	5.0	
1,1-DICHLOROETHENE	56	5.0	ND	5.0	48	5.0	
TETRACHLOROETHENE	ND	5.0	ND	5.0	ND	5.0	
TRICHLOROETHENE	51	5.0	ND	5.0	48	5.0	
VINYL CHLORIDE	ND	10	ND	10	ND	10	
2-BUTANONE	ND	100	ND	100	ND	100	
SURROGATE RECOVERIES-QC							
1,2-DICHLOROETHANE-D4	95%		95%		100%		
TOLUENE-D8	100%		100%		99%		
4-BROMOFLUOROBENZENE	101%		104%		104%		



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LABORATORY RESULTS

Laboratory Job No.: 920835

COMPOUNDS:	LAB#	DET.
SMP#	MSD	LIM.
dil.	1	
PURGEABLES	ug/L	
BENZENE	52	5.0
CARBON TETRACHLORIDE	ND	5.0
CHLOROBENZENE	51	5.0
CHLOROFORM	ND	5.0
1,4-DICHLOROBENZENE	ND	5.0
1,2-DICHLOROETHANE	ND	5.0
1,1-DICHLOROETHENE	51	5.0
TETRACHLOROETHENE	ND	5.0
TRICHLOROETHENE	51	5.0
VINYL CHLORIDE	ND	10
2-BUTANONE	ND	100
SURROGATE RECOVERIES-QC		
1,2-DICHLOROETHANE-D4	101%	
TOLUENE-D8	99%	
4-BROMOFLUOROBENZENE	106%	

NOTE: ND: NOT DETECTED
THE MATRIX SPIKE COMPOUNDS FOUND IN THE MBS, MS AND MSD SAMPLES WERE
SPIKED AT THE FOLLOWING LEVELS:

5 COMPOUNDS AT 50 ug/L



3700 Lakeville Highway, Petaluma, CA 94952
P.O. Box 808024, Petaluma, CA, 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4068

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dennis M. ... Phone 707/387-8800
Address 8801 FULSON BOULEVARD SUITE 200
City, State, Zip SACRAMENTO CA 95826
Client's or Representative's Signature [Signature]
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-072-044		PROJECT NAME UPRR - SACRAMENTO		NO. OF CONTAINERS	REMARKS				LAB USE ONLY
SAMPLERS (Signature) [Signature] KTB									
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION				
A-1	3/19/92		X		ASPHALT PILE				
A-2						X	X	X	COMPOSITE INTO 1 SAMPLE
A-2			X						
A-4									
C-1	3/19/92		X		CONCRETE PILE				
C-2						X	X	X	COMPOSITE INTO 1 SAMPLE
C-3			X						
C-4									
						PLEASE TAKE REPRESENTATIVE SAMPLES FOR COMPOSITING			

Relinquished by: (Signature) [Signature]	DATE 3/20/92	TIME 1600	Received by: (Signature)	General Remarks: NORMAL TURNAROUND SEND RESULTS TO TIMOTHY K. PARKER AT ABOVE ADDRESS
Relinquished by: (Signature) [Signature]	DATE	TIME	Received by: (Signature)	
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	



Superior Precision Analytical, Inc.

525 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 35487
CLIENT: DAMES & MOORE
CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/20/92
DATE SAMPLED : 04/10/92

ANALYSIS FOR STLC LEAD, ARSENIC, COPPER, & ZINC
by Calif. Admin. Code Title 22, Paragraph 66700 &
by SW-846 Method 6010 & 7060

LAB #	Sample Identification	Concentration (mg/L)			
		Arsenic	Copper	Lead	Zinc
1	72KT-1,2,3,4	ND<0.05	ND<1	ND<0.5	ND<0.5

mg/L = parts per million in extract

Method Detection Limit for Extractable Lead in Soil: 0.5 mg/L
Method Detection Limit for Extractable Copper in Soil: 1 mg/L
Method Detection Limit for Extractable Arsenic in Soil: 0.05 mg/L
Method Detection Limit for Extractable Zinc in Soil: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 90%
Duplicate RPD : 9

Richard Srna, Ph.D.

Brenda L. Olave (for)
Laboratory Manager



Superior Precision Analytical, Inc.

925 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 95487
CLIENT: DAMES & MOORE
CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/20/92
DATE SAMPLED : 04/10/92

Total Lead by SW-846 Method 6010
Extraction by Toxicity Characteristic Leaching Procedure

LAB #	Sample Id	Concentration (mg/L) Total Lead
1	72KT-1,2,3,4	ND<0.5

mg/L - parts per million (ppm)

Method Detection limit of Total Lead in TCLP Extract = 0.5mg/L

QAQC Summary: MS/MSD Recovery :80/80%
Duplicate RPD : 0

Richard Srna, Ph.D.

Brendan L. Olin (for)
Laboratory Manager



Superior Precision Analytical, Inc.

225 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 95487
CLIENT: DAMES & MOORE
CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/20/92
DATE SAMPLED : 04/10/92

Total Arsenic by SW-846 Method 6010
Extraction by Toxicity Characteristic Leaching Procedure

LAB #	Sample Id	Concentration (mg/L) Total Arsenic
1	72KT-1,2,3,4	ND<0.1

mg/L - parts per million (ppm)

Method Detection limit of Total Arsenic in TCLP extract = 0.1 mg/L

QAQC Summary: MS/MSD Recovery : 102/105%
Duplicate RPD : 3

Richard Srna, Ph.D.

Brenda L. Olive (for)
Laboratory Manager



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 747-2081 / Fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54703
CLIENT: DAMES & MOORE
CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/23/92

0 ANALYSIS FOR TOTAL PETROLEUM OIL AND GREASE by Method 5520F (formerly 503E)

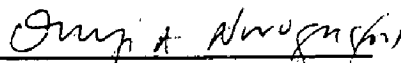
LAB #	Sample Identification	Concentration (mg/kg) Total Petroleum Oil & Grease
----	-----	-----
1	72KT-1,2,3,4	580

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 50mg/kg

QAQC Summary:
MS/MSD Average Recovery = 94%
Duplicate RPD = 11%

Richard Srna, Ph.D.


Laboratory Director



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Leandro, California 94124 • (415) 647-2041 • Fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54703
CLIENT: DAMES & MOORE
CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/21/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB # ----	Sample Identification -----	Concentration (mg/kg) Motor Oil Range -----
1	72KT-1,2,3,4	820*

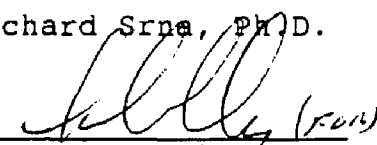
* - The pattern of peaks observed in the chromatogram is not typical of motor oil.
mg/kg - parts per million (ppm)

Minimum Detection Limit for Motor Oil in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Motor Oil = <15%
MS/MSD Average Recovery = 101%: Duplicate RPD = 11%

Richard Srna, Ph.D.


Laboratory Director



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • 415/763-7081 / Fax 415/621-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 54703-1
CLIENT: DAMES & MOORE

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/21/92
JOB NO. 00173-072-044

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry
after TCLP Extraction CFR #40 Section 268
SAMPLE: 72KT-1,2,3,4

Compound	ug/L	Compound	ug/L
Chloromethane	ND<10	Cis-1,3-Dichloropropene	ND<3
Bromomethane	ND<10	Trichloroethene	ND<3
Vinyl Chloride	ND<10	Dibromochloromethane	ND<3
Chloroethane	ND<10	1,1,2-Trichloroethane	ND<3
Methylene Chloride	ND<10	Benzene	ND<1
Acetone	ND<10	Trans-1,3-Dichloropropene	ND<3
Carbon disulfide	ND<3	2-Chloroethyl vinyl ether	ND<3
Trichlorofluoromethane	ND<3	Bromoform	ND<3
1,1-Dichloroethene	ND<3	4-Methyl-2-Pentanone	ND<10
1,1-Dichloroethane	ND<3	2-Hexanone	ND<10
1,2-Dichloroethene (trans)	ND<3	Tetrachloroethene	ND<3
Chloroform	ND<3	1,1,2,2-Tetrachloroethane	ND<3
1,2-Dichloroethane	ND<1	Toluene	ND<3
2-Butanone	ND<20	Chlorobenzene	ND<3
1,1,1-Trichloroethane	ND<3	Ethylbenzene	ND<3
Carbon Tetrachloride	ND<3	Styrene	ND<3
Vinyl Acetate	ND<10	Total Xylenes	ND<3
Bromodichloromethane	ND<3	1,3-Dichlorobenzene	ND<3
1,2-Dichloropropane	ND<3	1,4-Dichlorobenzene	ND<3
1,2-Dichloroethene (cis)	ND<3	1,2-Dichlorobenzene	ND<3

ug/L = part per billion (ppb)

QC DATA:

Surrogate Recoveries

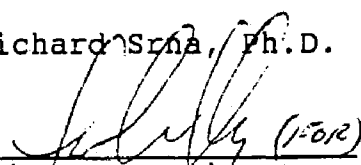
1,2-DCA-d4.....	98%
Toluene-d8.....	94%
Bromofluorobenzene.....	104%

QC Limits

water	soil
76-114	70-121
88-110	81-117
86-115	74-121

comments:

Richard Srna, Ph.D.


Laboratory Director



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / Fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 54703-2
CLIENT: DAMES & MOORE

DATE RECEIVED: 04/13/92
DATE REPORTED: 04/21/92
JOB NO. 00173-072-044

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry
after TCLP Extraction CFR #40 Section 268
SAMPLE: ZERO HEADSPACE TCLP EXTRACTION BLANK

Compound	ug/L	Compound	ug/L
Chloromethane	ND<10	Cis-1,3-Dichloropropene	ND<3
Bromomethane	ND<10	Trichloroethene	ND<3
Vinyl Chloride	ND<10	Dibromochloromethane	ND<3
Chloroethane	ND<10	1,1,2-Trichloroethane	ND<3
Methylene Chloride	ND<10	Benzene	ND<1
Acetone	ND<10	Trans-1,3-Dichloropropene	ND<3
Carbon disulfide	ND<3	2-Chloroethyl vinyl ether	ND<3
Trichlorofluoromethane	ND<3	Bromoform	ND<3
1,1-Dichloroethene	ND<3	4-Methyl-2-Pentanone	ND<10
1,1-Dichloroethane	ND<3	2-Hexanone	ND<10
1,2-Dichloroethene (trans)	ND<3	Tetrachloroethene	ND<3
Chloroform	ND<3	1,1,2,2-Tetrachloroethane	ND<3
1,2-Dichloroethane	ND<1	Toluene	ND<3
2-Butanone	ND<20	Chlorobenzene	ND<3
1,1,1-Trichloroethane	ND<3	Ethylbenzene	ND<3
Carbon Tetrachloride	ND<3	Styrene	ND<3
Vinyl Acetate	ND<10	Total Xylenes	ND<3
Bromodichloromethane	ND<3	1,3-Dichlorobenzene	ND<3
1,2-Dichloropropane	ND<3	1,4-Dichlorobenzene	ND<3
1,2-Dichloroethene (cis)	ND<3	1,2-Dichlorobenzene	ND<3

ug/L = part per billion (ppb)

QC DATA:

Surrogate Recoveries

1,2-DCA-d4.....	101%
Toluene-d8.....	97%
Bromofluorobenzene.....	108%

QC Limits

water	soil
76-114	70-121
88-110	81-117
86-115	74-121

comments:

Richard Srna, Ph.D.


Laboratory Director

DAMES & MOORE CHAIN OF CUSTODY RECORD

SUPERIOR ANALYTICAL, INC.
SAN FRANCISCO LAB

PROJ. NO. 00173-072-044		PROJECT NAME UPRR - SACRAMENTO			NO. OF CONTAINERS		<div style="text-align: right;">415/647-2081 ATTN: JOHN MORRIS</div>				REMARKS 54703		
SAMPLERS: (Signature) <div style="font-family: cursive; font-size: 1.2em;">Kevin J. Brown</div>							<div style="transform: rotate(-45deg); display: inline-block;">TCLP-EPA 8240</div> <div style="transform: rotate(-45deg); display: inline-block;">TCLP-AS, Pb, Pb-206</div> <div style="transform: rotate(-45deg); display: inline-block;">WET-AS, Cu, Pb, Zn</div> <div style="transform: rotate(-45deg); display: inline-block;">TPH-Motor Oil</div> <div style="transform: rotate(-45deg); display: inline-block;">EPA 8015 RAD</div>						
STA. NO.	DATE	TIME	COOR.	ORAS	STATION LOCATION								
72KT-1	4/10/92			X	72KT-1, EAST WALL	1						PLEASE COMPOSITE ALL FOUR CORES INTO 1 SAMPLE TAKE A REPRESENTATIVE SAMPLE FROM EACH OF THE CORES BY PULVERIZING THE ENTIRE CORE AND WEIGHING OUT AN EQUAL MASS FROM EACH CORE	
72KT-2				X	72KT-2, SOUTH WALL	1	X	X	X	X			
72KT-3				X	72KT-3, WEST WALL	1							
72KT-4				X	72KT-4, NORTH WALL	1							
COMPOSITE AS DIRECTED													
						Please initial: RP Samples stored in: 4/10 Appropriate containers: 4/10 Samples preserved: 4/10 VOA without reagent: NA Comments: OK							
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Kevin J. Brown		4/13/92 0800											
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by:		Date / Time		Remarks: SEND RESULTS TO: Kevin J. Brown - Project Geologist - 8801 Folsom Boulevard, Suite 200 Sacramento, CA 95826 916/387-8000 FAX 916/387-3802					
				<div style="font-family: cursive; font-size: 1.2em;">[Signature]</div>		4/13/92 1600							



3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Kevin Brown
Dames & Moore
8801 Folsom Blvd., Suite 200
Sacramento, CA 95826

Client Code: DAMM6
Survey # UPPR-SACTO
Project/Release # 00173-072-044

Page 1

LABORATORY RESULTS

Date Collected: 05/06/92
Date Extracted: 05/07/92
Date Analyzed: 05/08/92

Laboratory Job No.: 921400
Date Received: 05/07/92
Date Reported: 05/11/92

ASSAY: FUEL FINGERPRINT SURVEY
MATRIX: SOIL

LABNO SMPLNO-ID

12161 S-1

RESULTS -----

TENTATIVE IDENTIFICATION	AMOUNT mg/kg	BOILING RANGE degrees C.	DET. LIM. mg/kg
BUNKER OIL	61.7	70-280	50

MB
RESULTS -----

TENTATIVE IDENTIFICATION	AMOUNT mg/kg	BOILING RANGE degrees C.	DET. LIM. mg/kg
N/A	ND	N/A	50

MBS
RESULTS -----

IDENTIFICATION	AMOUNT mg/kg	BOILING RANGE degrees C.	DET. LIM. mg/kg
DIESEL	631	130-275	50

THIS REPORT HAS BEEN REVIEWED
AND APPROVED FOR RELEASE.

DCF

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 921400

- NOTES: (1) SAMPLES WERE SEMI-QUANTITATED BASED ON THE BEST CHROMATOGRAPHIC FIT FOR THE AVAILABLE STANDARDS.
- (2) THE BOILING RANGES LISTED ABOVE ARE FROM NIOSH (1550)-"NAPTHA BY FID", FROM "PETROLEUM PROCESSING" BY R. J. HENGSTEBECK-1959, OR WERE ESTIMATED FROM RETENTION TIME DATA.
- (3) MBS WAS SPIKED AT 550 mg/kg.



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54806
CLIENT: DAMES & MOORE
CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 05/08/92
DATE REPORTED: 05/15/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Bunker"C" Fuel
1	S-1	ND<10
2	S-2	ND<10
3	S-3	ND<10
4	S-4	ND<10
5	S-5	ND<10
6	S-6	ND<10

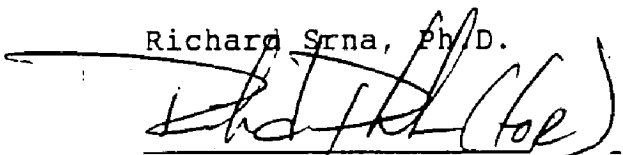
mg/kg - parts per million (ppm)

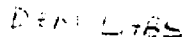
Minimum Detection Limit for Bunker"C" Fuel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Bunker"C" Fuel = <15
MS/MSD Average Recovery = 115%: Duplicate RPD = 7.4%

Richard Srna, Ph.D.


Laboratory Director



Telephone: (707) 763-8245 FAX: (707) 763-4085

(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-574- 044		PROJECT NAME UPPER-SILVERMOUNT		NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-between;"> <div> <div>FULL ANALYSIS</div> <div>NO. OF CONTAINERS</div> </div> <div> <div>NO. OF CONTAINERS</div> <div>NO. OF CONTAINERS</div> </div> </div>				REMARKS
SAMPLERS (Signature) <i>[Signature]</i>									
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION				
S-1	5/14/92			X	72KT-S1	1	X	X	5 DAY
S-2	1			1	72KT-S2	1		X	TURNAROUND
S-3	1			1	72KT-S3	1		X	RESULTS
S-4	1			1	72KT-S4	1		X	DUE
S-5	1			1	72KT-S5	1		X	5/12/92
S-6	1			1	72KT-S6	1		X	
<p>SAMPLES TO BE ANALYZED FOR PETROLEUM HYDROCARBONS RANGE WILL BE INDICATED ON A NEW CHAIN SENT VIA FAX / ON 5/7/92</p> <p>THANKS KJB</p>									

Relinquished by: (Signature) K. J. R. [Signature]	DATE 5/10/92	TIME 1630	Received by: (Signature)	General Remarks: 5 DAY TURNAROUND RESULTS DUE 5/12/92 SEND RESULTS TO: KEVIN J. EDWARDS @ ABOVE ADDRESS
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	



EUREKA LABORATORIES, INC.

Corporate Office:
6790 FLORIN PERKINS ROAD
SACRAMENTO, CA 95828
TEL: (916) 381-7953
FAX: (916) 381-4013

Branch Office:
17403 N.E. 28th STREET
REDMOND, WA 98052
TEL: (206) 885-0284
FAX: (206) 885-0284

Air Pollution
Chemical Analysis
Research & Testing
Environmental Studies
Robotics
Toxicology

June 1, 1992

Mr. Timothy Parker
DAMES & MOORE
8801 Folsom Blvd., Suite 200
Sacramento, CA 95826

Reference: Project #: 00173-072-044
Project: UPRR Sacto
ELI Order No.: 92-05-248

Dear Mr. Parker:

Eureka Laboratories, Inc. is pleased to submit a laboratory report for the subject project. This report presents analytical results for two (2) soil samples -EMERGENCY SERVICE- for the following analysis:

<u>ANALYSIS</u>	<u>METHOD</u>	<u>SAMPLE ID.</u>
Total Petroleum Hydrocarbons	EPA 8015 (Modified)	72KT-P1 & 72KT-P2

Sincerely,
EUREKA LABORATORIES, INC.

By: Shao-Pin Yo
Shao-Pin Yo, Ph.D.
Laboratory Director

SPY/et

Attachment

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

COPY

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916)381-7953

Order No.: 92-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES & MOORE
CONTRACT #: NA
PROJECT: UPRR-SACTO - 00173-072-044
TASK #: NA
P.O.#: NA
SAMPLE LOCATION:
ELI SAMPLE ID: 9205248-01A
FILE ID: NA
SAMPLE ID: 72KT-P1

DATE SAMPLED: 05/27/92
DATE RECEIVED: 05/27/92
DATE EXTRACTED: 05/27/92
DATE ANALYZED: 05/28/92
INSTRUMENT ID: SVG1
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET
SAMPLE VOL./WT.: 40g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Samir Samaan

Chemist

06/01/92

Date

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916)381-7953

Order No.: 92-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES & MOORE
CONTRACT #: NA
PROJECT: UPRR-SACTO - 00173-072-044
TASK #: NA
P.O.#: NA
SAMPLE LOCATION:
ELI SAMPLE ID: 9205248-02A
FILE ID: NA
SAMPLE ID: 72KT-P2

DATE SAMPLED: 05/27/92
DATE RECEIVED: 05/27/92
DATE EXTRACTED: 05/27/92
DATE ANALYZED: 05/28/92
INSTRUMENT ID: SVG1
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET
SAMPLE VOL./WT.: 40g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	<5	5
Diesel Range	25	10
Motor Oil Range	115	25
Total Petroleum Hydrocarbons	140	
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	C12-C18	
Motor Oil Range	C18-C30	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	C16	
Motor Oil Range	C24	

Samir Samaan

Chemist

06/01/92

Date

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No.: 92-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES & MOORE
CONTRACT #: NA
PROJECT: UPRR-SACTO - 00173-072-044
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: NA
ELI SAMPLE ID: 9205248-03A
FILE ID: NA
SAMPLE ID: METHOD BLANK

DATE SAMPLED: NA
DATE RECEIVED: 05/27/92
DATE EXTRACTED: 05/27/92
DATE ANALYZED: 05/28/92
INSTRUMENT ID: SVG1
MATRIX: NA
% MOISTURE: NA
REPORT WT: WET
SAMPLE VOL./WT.: NA
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Samir Samaan

Chemist

06/01/92

Date

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916)381-7953

Order No.: 92-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES & MOORE
CONTRACT #: NA
PROJECT: UPRR-SACTO - 00173-072-044
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: NA
ELI SAMPLE ID: 9205248-07A
FILE ID: NA
SAMPLE ID: REAGENT SPIKE RECOVERY

DATE SAMPLED: NA
DATE RECEIVED: 05/27/92
DATE EXTRACTED: 05/27/92
DATE ANALYZED: 05/28/92
INSTRUMENT ID: SVG1
MATRIX: NA
% MOISTURE: NA
REPORT WT: WET
SAMPLE VOL./WT.: NA

PETROLEUM HYDROCARBONS

CONCENTRATION
%

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum
Hydrocarbons

NA
70%
NA

CARBON NO. RANGE

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

PEAK CARBON NO.

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

Samir Samaan

Chemist

06/01/92

Date

TOTAL PETROLEUM HYDROCARBONS
Modified EPA Method 8015(GC-FID)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No.: 92-05-248
Hazardous Waste Testing
Certification No.: E765

CLIENT: DAMES & MOORE
CONTRACT #: NA
PROJECT: UPRR-SACTO - 00173-072-044
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: NA
ELI SAMPLE ID: 9205248-08A
FILE ID: NA
SAMPLE ID: REAGENT SPIKE RECOVERY DUP

DATE SAMPLED: NA
DATE RECEIVED: 05/27/92
DATE EXTRACTED: 05/27/92
DATE ANALYZED: 05/28/92
INSTRUMENT ID: SVG1
MATRIX: NA
% MOISTURE: NA
REPORT WT: WET
SAMPLE VOL./WT.: NA

PETROLEUM HYDROCARBONS

CONCENTRATION

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum
Hydrocarbons

NA
72%
NA

CARBON NO. RANGE

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

PEAK CARBON NO.

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

Samir Samaan

Chemist

06/01/92

Date



3700 Lakewood Highway, Petaluma, CA 94952

P.O. Box 808024, Petaluma, CA 94975-8024

Telephone: (707) 763-6245 FAX: (707) 763-4065

92-05-248

8884

20°C

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name DAMES & MOORE Phone 916-387-880

Address 8801 Emerson Blvd Suite 200

City, State, Zip SACRAMENTO, CA 95826

Client's or Representative's Signature [Signature]

(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client picks up samples.

PROJ. NO. <u>UPPER</u> <u>-SACTO</u>		PROJECT NAME <u>No.</u> <u>00173-072-044</u>		NO. OF CONTAINERS		REMARKS	
SAMPLERS (Signature) <u>[Signature]</u>							
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	US	
1A	5/21/92				72KT-P1	2	X
2A	5/21/92				72KT-P2	2	X
<div>48 HOUR RUSH</div>						48 hr	
						Turnaround	
						See Bruce	
Relinquished by: (Signature) <u>[Signature]</u>		DATE <u>5/21/92</u>	TIME <u>1715</u>	Received by: (Signature) <u>[Signature]</u>		General Remarks: <u>1720</u>	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			



3700 Lafayette Highway, Petaluma, CA 94952
P.O. Box 808024, Petaluma, CA, 94975-8024
Telephone: (707) 763-8248 FAX: (707) 763-4066

Page 2

LABORATORY RESULTS

Laboratory Job No.: 891775
Date Received: 04/27/89
Date Reported: 07/06/89

Date Analyzed: 05/03/89

TOTAL PETROLEUM HYDROCARBONS(EPA 418.1)

MATRIX:SOIL

LABNO	SMPLNO	COMPOUND	FOUND mg/kg	DET.LIM. mg/kg
21874	T-10A	TPH	1,490	150
21875	T-10B	TPH	1,300	150
21876	T-10C	TPH	552	60
21877	T-10D	TPH	1,040	150

ANALYST:JAN TOISTER



3700 Lakeville Highway, Petaluma, CA 94952
P.O. Box 808024, Petaluma, CA. 94975-8024
Telephone: (707) 763-8248 FAX: (707) 763-4068

Page 4

LABORATORY RESULTS

Laboratory Job No.: 891775
Date Received: 04/27/89
Date Reported: 07/06/89

Date Analyzed: 04/28/89

ASSAY: METAL SCAN BY ICP (EPA 6010)

LABNO	SMPLNO-ID	RESULTS		DET. LIM.
-----	-----	-----		-----
21874	T-10A SOIL		CA TTLC	
	AS	ND	500	3.9 mg/kg
	CU	36.8 mg/kg	2,500	0.20 mg/kg
	PB	57.5 mg/kg	1,000	0.99 mg/kg
21875	T-10B SOIL		CA TTLC	
	AS	ND	500	4.0 mg/kg
	CU	16.2 mg/kg	2,500	0.20 mg/kg
	PB	7.5 mg/kg	1,000	1.00 mg/kg
21876	T-10C SOIL		CA TTLC	
	AS	8.2 mg/kg	500	3.9 mg/kg
	CU	44.0 mg/kg	2,500	0.20 mg/kg
	PB	63.4 mg/kg	1,000	0.98 mg/kg
21877	T-10D SOIL		CA TTLC	
	AS	9.2 mg/kg	500	3.9 mg/kg
	CU	36.1 mg/kg	2,500	0.20 mg/kg
	PB	53.2 mg/kg	1,000	0.98 mg/kg

ND=Not Detected
ANALYST: NANCY S. TESCHE



3700 Lakeville Highway, Petaluma, CA 94952
P.O. Box 608024, Petaluma, CA. 94975-8024
Telephone: (707) 763-6248 FAX: (707) 763-4086

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LABORATORY RESULTS

Date Extracted: 04/25/89
Date Analyzed: 04/25/89

Laboratory Job No.: 891775
Date Received: 04/27/89
Date Reported: 07/06/89

ASSAY:TPH/Diesel in Soil/Waste (3550/8015)
MATRIX:SOIL

LABNO SMPLNO-ID -----	RESULTS -----	DET.LIM -----
21874 T-10A DIESEL	140 mg/kg	30.0 mg/kg
21875 T-10B DIESEL	66 mg/kg	30.0 mg/kg
21876 T-10C DIESEL	33 mg/kg	30.0 mg/kg
21877 T-10D DIESEL	78 mg/kg	30.0 mg/kg

ANALYST:ROBERT REMLINGER



1700 Lakewood Highway, Petaluma, CA 94952
P.O. Box 808024, Petaluma, CA, 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

Page 8

LABORATORY RESULTS

Date Extracted: 04/28/89
Date Analyzed: 04/28/89

Laboratory Job No.: 891775
Date Received: 04/27/89
Date Reported: 07/06/89

ASSAY: TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (EPA 5020/8015/8020)
MATRIX: SOIL

LABNO SMPLNO-ID -----	RESULTS -----	DET.LIM -----
21874 T-10A GASOLINE	ND	1.0 mg/kg
21875 T-10B GASOLINE	1.2 mg/kg	1.0 mg/kg
21876 T-10C GASOLINE	ND	1.0 mg/kg
21877 T-10D GASOLINE	ND	1.0 mg/kg

ANALYST: ROBERT REMLINGER



3700 Lakeville Highway, Petaluma, CA 94952
P.O. Box 806024, Petaluma, CA, 94975-8024
Telephone: (707) 763-8248 FAX: (707) 763-4085

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LABORATORY RESULTS

Date Extracted: 04/28/89 Laboratory Job No.: 891775
Date Analyzed: 04/28/89 Date Received: 04/27/89
Date Reported: 07/06/89

ASSAY:TPH/GASOLINE & BTEX EPA 5020/8015/8020
MATRIX:SOIL

LABNO SMPLNO-ID	RESULTS	DET.LIM
-----	-----	-----
21874 T-10A		
BENZENE	ND	0.040 mg/kg
TOLUENE	ND	0.040 mg/kg
ETHYLBENZENE	ND	0.040 mg/kg
XYLENE	ND	0.040 mg/kg
21875 T-10B		
BENZENE	ND	0.040 mg/kg
TOLUENE	ND	0.040 mg/kg
ETHYLBENZENE	ND	0.040 mg/kg
XYLENE	ND	0.040 mg/kg
21876 T-10C		
BENZENE	ND	0.040 mg/kg
TOLUENE	ND	0.040 mg/kg
ETHYLBENZENE	ND	0.040 mg/kg
XYLENE	ND	0.040 mg/kg
21877 T-10D		
BENZENE	ND	0.040 mg/kg
TOLUENE	ND	0.040 mg/kg
ETHYLBENZENE	ND	0.040 mg/kg
XYLENE	ND	0.040 mg/kg

ANALYST:ROBERT REMLINGER



**Dames
&
Moore**

8801 Folsom Blvd., Suite 200
Sacramento, CA 95826
(916) 387-8800
Fax: (916) 387-0802

Date: MARCH 31, 1992

Time: 1300

To: David Anderson

Company: USPCI

Fax Number: 921-2025

Charge #:

00173 072 9097 044

From: **Dames & Moore (SAC)**

Name: KEVIN BROWN

Phone: (916) 387-75 29

MESSAGE

SOIL STOCKPILE RESULTS

*** ACTIVITY REPORT ***

TRANSMISSION OK

TX/RX NO. 0117

CONNECTION TEL 9212025

CONNECTION ID

START TIME 03/31 13:05

USAGE TIME 03'16

PAGES 6

RESULT OK



ANALYTICAL ASSOCIATES, INC.

4011 Power Inn Road • Suite G • Sacramento • CA 95826 • (916) 451-5034

PCB CONTENT
USEPA METHOD 8080

SACRAMENTO MUNICIPAL UTILITY DISTRICT


22 JUN 92

P.O. BOX 15830
SACRAMENTO, CA 95813

REPORT No.: 39720

ATTN: ELECTRICAL DIVISION

35

SAMPLE IDENTIFICATION	LABORATORY NUMBER	RESULTS	UNITS	AROCOR	DETECTION LIMITS
92T-457 UNION PACIFIC SER# 751258 GE.	207633	<1	ppm	ND	1 ppm
California State Certified Laboratory					
APPROVED BY: 					

Appendix B

APPENDIX B
RAIL CAR MANIFESTS

Please print or type. Form designed for use on site (1 inch typewriter).

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
C A L 0 0 0 0 2 9 5 0 0 2 6 1 7 8

Manifest
Document No. 8

2. Page 1
of 1

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

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

A. State Manifest Document Number

90826178

B. State Generator's ID

H S H Q 3 6 0 2 0 7 2 4

C. State Transporter's ID

D. Transporter's Phone 402/271-2234

E. State Transporter's ID

F. Transporter's Phone 800/877-0454

G. State Facility's ID

H. Facility's Phone

801/595-3900

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

N E D 0 0 1 7 9 2 9 1 0

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

T X D 9 8 8 0 5 2 4 9 4

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, Utah

10. US EPA ID Number

U T D 9 9 1 3 0 1 7 4 8

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

a. Non-Hazardous Waste Solid

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

15. Waste No.

0 0 1 C M 0 0 0 9 5 T

State CA 611

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Wastes Listed Above

a.

b.

c.

d.

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

CONTAINER # MP640920

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. E. BREWER

Signature

D. E. Brewer

Month Day Year

5 29 9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

D. E. BREWER

Signature

D. E. Brewer

Month Day Year

5 29 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

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

GENERATOR

TRANSPORTER

FACILITY

TO: OPERATING RECORD

DATE: 06/09/92

RE: LOADS RECEIVED BY RAIL

MEMO #: 06090920

Railcar # MP640920 was manifested to Grassy Mountain use manifest numbers in column A. The railcar was unloaded received at the facility using the load #s in column B.

A	Weight	B	Weight
Manifest		Load	
<u>26178</u>	<u>95T.</u>	<u>5861</u>	<u>70020 #</u>
		<u>5862</u>	<u>45740</u>
		<u>5863</u>	<u>30480</u>
<u>26178</u>	<u>95T.</u>		<u>146240 #</u>
			<u>73.12 T.</u>

Weight Discrepancy Yes/No

OK

Load Controller's Initials AR

**UNIFORM HAZARDOUS
WASTE MANIFEST**

Generator's US EPA ID No. C.A.L. 0000029500
Manifest Document No. 26179

2. Page 1
of 1

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

3. Generator's Name and Mailing Address
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179
4. Generator's Phone (402) 271-2261

A. State Manifest Document Number
90826179

B. State Generator's ID
H S H Q 3 6 0 2 0 7 2 4

5. Transporter 1 Company Name
Union Pacific Railroad
6. US EPA ID Number
N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID
D. Transporter's Phone 402/271-2234

7. Transporter 2 Company Name
USPCI
8. US EPA ID Number
T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID
F. Transporter's Phone 800/877-0454

9. Designated Facility Name and Site Address
USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT
10. US EPA ID Number
U T D 9 9 1 3 0 1 7 4 8

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		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. Non-Hazardous Waste Solid	0 0 1	C M	0 0 0 9 5	T	State CA 611 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

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

15. Special Handling Instructions and Additional Information
Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817
CONTAINER # UP32323

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. FERREWER Signature D. Brewer Month Day Year 5 2 9 9

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name D.E. BREWER Signature D. Brewer Month Day Year 5 2 9 9

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

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

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

GENERATOR

TRANSPORTER

FACILITY

TO: OPERATING RECORD
 DATE: 6/5/92
 RE: LOADS RECEIVED BY RAIL
 MEMO #: _____

Railcar # UP32323 was manifested to Grassy Mountain with manifest numbers in column A. The railcar was unloaded received at the facility using the load #s in column B.

A		B	
Manifest	Weight	Load	Weight
<u>26179</u>	<u>95 T</u>	<u>5780</u>	<u>25,580</u>
<u>26179</u>	<u> </u>	<u>5785</u>	<u>53,040</u>
<u>26179</u>	<u> </u>	<u>5787</u>	<u>41,380</u>
<u>26179</u>	<u> </u>	<u>5788</u>	<u>33,820</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

190,000 lbs.

153,820 lbs.

Weight Discrepancy Yes/No OK

Load Controller's Initials SA

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
C A L 0 0 0 0 2 9 5 0 0
Manifest Document No.
2 6 1 8 0

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

3. Generator's Name and Mailing Address
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179
4. Generator's Phone (402) 271-2261

A. State Manifest Document Number
90826180

B. State Generator's ID
H S H Q 3 6 0 2 0 7 2 4

5. Transporter 1 Company Name
Union Pacific Railroad

6. US EPA ID Number
N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID
D. Transporter's Phone
402/271-2234

7. Transporter 2 Company Name
USPCI

8. US EPA ID Number
T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID
F. Transporter's Phone
800/877-0454

9. Designated Facility Name and Site Address
USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number
U T D 9 9 1 3 0 1 7 4 8

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
15. Waste No.
CA 611
EPA/Other

a. Non-Haz Non-Hazardous Waste Solid

0 0 1 C M 0 0 0 9 5 T

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

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

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817

CONTAINER # MP642613

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 E BREWER

Signature
D E Brewer

Month Day Year
5 2 9 9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
D E BREWER

Signature
D E Brewer

Month Day Year
5 2 9 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

Do Not Write Below This Line

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/08/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANYRAILCAR # m#642613GROUP LOAD # 920039836

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26180	190000 Lbs	920005857A	46660 Lbs	147920 Lbs	23.33
90826180					
	0 Lbs	920005859A	45800 Lbs	0 Lbs	22.90
90826180					
	0 Lbs	920006074A	55460 Lbs	0 Lbs	27.73
90826180					
190000 Lbs			147920 Lbs	147920 Lbs	73.96

DIFFERENCE -22.147%

WEIGHT DISCREPANCY YES

INITIAL RDISCREPANCY RESOLVED YES / NOINITIAL A DATE 06/20/92

PRINTED ON 07/06/92

* NOT DEPARTED

**UNIFORM HAZARDOUS
WASTE MANIFEST**

Generator's US EPA ID No.

C, A, L, 0, 0, 0, 0, 2, 9, 5, 0, 0, 2, 6, 1, 8, 1

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

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

A. State Manifest Document Number

90826181

B. State Generator's ID

H, S, H, Q, 3, 6, 9, 2, 9, 7, 2, 4

5. Transporter 1 Company Name

UPS Union Pacific Railroad

6. US EPA ID Number

N, E, D, 0, 0, 1, 7, 9, 2, 9, 1, 0

C. State Transporter's ID

D. Transporter's Phone 402/271-2234

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

T, X, D, 9, 8, 8, 0, 5, 2, 4, 9, 4

E. State Transporter's ID

F. Transporter's Phone 800/877-0454

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

U, T, D, 9, 9, 1, 3, 0, 1, 7, 4, 8

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)

a. Non-Hazardous Waste Solid

12. Containers
No. Type

0, 0, 1 G M 0, 0, 0, 9, 5 T

13. Total
Quantity

14. Unit
WT/Vol

15. Waste No.

State CA 611

EPA/Other

b.

State

EPA/Other

c.

State

EPA/Other

d.

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Wastes Listed Above

a. b. c. d.

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817

CONTAINER# MP643592

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.E. BREWER

Signature
D.E. Brewer

Month Day Year
5 29 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
D.E. BREWER

Signature
D.E. Brewer

Month Day Year
5 29 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

Signature

Month Day Year

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

GENERATOR

TRANSPORTER

FACILITY

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/11/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANYRAILCAR # mp643592GROUP LOAD # 920039835

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26181	190000 Lbs	920005990A	47660 Lbs	159500 Lbs	23.83
90826181	0 Lbs	920005992A	68180 Lbs	0 Lbs	34.09
90826181	0 Lbs	920005994A	43660 Lbs	0 Lbs	21.83
90826181					
190000 Lbs			159500 Lbs	159500 Lbs	79.75

DIFFERENCE -16.053%

WEIGHT DISCREPANCY YES

INITIAL ADISCREPANCY RESOLVED (YES) NOINITIAL R DATE 06/26/92

Please print or type. Form designed for use on site (with typewriter).

**UNIFORM HAZARDOUS
WASTE MANIFEST**

Generator's US EPA ID No.

Manifest
Document No.

2. Page 1

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

C A L 0 0 0 0 2 9 5 0 0 2 6 1 8 4

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street Rm. 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

A. State Manifest Document Number

90826184

B. State Generator's ID

H S H Q 3 6 0 2 0 7 2 4

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID

D. Transporter's Phone-- 402/271-2234

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID

F. Transporter's Phone-- 800/877-0454

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

U T D 9 9 1 3 0 1 7 4 8

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

L
Waste No.

a. Non-Hazardous Waste Solid

0 0 1 C M

0 0 0 9 5

T

State-- CA 611

EPA/Other--

b.

State--

EPA/Other--

c.

State--

EPA/Other--

d.

State--

EPA/Other--

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Wastes Listed Above

a.

b.

c.

d.

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

CONTAINER# MKT16400

16.

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

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

Printed/Typed Name

Signature

Month Day Year

D.E. BREWER

D.E. Brewer

5 29 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

D.E. BREWER

D.E. Brewer

5 29 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

Signature

Month Day Year

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

GENERATOR

TRANSPORTED

FACILITY

USPCI GRASSY MOUNTAIN
RAIL RECONCILIATION FORM

ARRIVED 06/11/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANYRAILCAR # mkt 16400GROUP LOAD # 920039833

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26184	190000 Lbs	920005999A	82120 Lbs	171080 Lbs	41.06
90826184	0 Lbs	920006000A	52620 Lbs	0 Lbs	26.31
90826184	0 Lbs	920006002A	36340 Lbs	0 Lbs	18.17
90826184					
190000 Lbs			171080 Lbs	171080 Lbs	85.54

DIFFERENCE -9.958%

WEIGHT DISCREPANCY NO

INITIAL R

Please print or type. Form designed for use on site (for typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
C A L 0 0 0 0 2 9 5 0 0 2 9 1 8 5

2. Page 1
of 1

Information in the
is not required by h.

3. Generator's Name and Mailing Address
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179
4. Generator's Phone (402) 271-2261

A. State Manifest Document Number
908261

B. State Generator's ID
H S H R 3 6 1 0 2 1 0 7 2 4 1

5. Transporter 1 Company Name
Union Pacific Railroad
6. US EPA ID Number
N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID
D. Transporter's Phone 402/271-2234

7. Transporter 2 Company Name
USPCI
8. US EPA ID Number
T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID
F. Transporter's Phone 800/877-0454

9. Designated Facility Name and Site Address
USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT
10. US EPA ID Number
U T D 9 9 1 3 0 1 7 4 8

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
15. Waste No.

a. Non-Hazardous Waste Solid

0 0 1 C M 0 0 0 9 5 T

State CA 611

EPA Code

b.

State

EPA Code

c.

State

EPA Code

d.

State

EPA Code

J. Additional Descriptions for Materials Listed Above

GM 91-10782-Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Wastes Listed Above

a. b. c. d.

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

GONDOLA # MP641956

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.

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Printed/Typed Name UNION PACIFIC RAILROAD Signature

for PETER NORGARD

Signature

Month Day Year

05 12 29

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name UNION PACIFIC RAILROAD Signature

for PETER NORGARD

Signature

Month Day Year

05 12 29

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name Signature

Month Day Year

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

GENERATOR

TRANSPORTER

FACILITY

USPCI GRASSY MOUNTAIN
RAIL RECONCILIATION FORM

ARRIVED 06/10/92

EPA ID # CA1000029500 GM91-1078
UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034511

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26185	190000 Lbs	920005916A	52820 Lbs	159820 Lbs	26.41
90826185	0 Lbs	920005920A	54140 Lbs	0 Lbs	27.07
90826185	0 Lbs	920005922A	52860 Lbs	0 Lbs	26.43
90826185					
<hr/>					
	190000 Lbs		159820 Lbs	159820 Lbs	79.91

DIFFERENCE -15.884%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NOINITIAL _____ DATE / /

PRINTED ON 06/26/92

* NOT DEPARTED

Please print or type. Form designed for use on site (1ch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. C A L 0 0 0 0 2 9 5 0 0
Manifest Document No. 2 6 1 8 7

2. Page 1
of 1

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

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

A. State Manifest Document Number

90826187

B. State Generator's ID

H S H Q 3 6 0 2 0 7 2 4

C. State Transporter's ID

402/271-2234

E. State Transporter's ID

800/877-0454

G. State Facility's ID

801/595-3900

H. Facility's Phone

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

N E D 0 0 1 7 9 2 9 1 0

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

T X D 9 8 8 0 5 2 4 9 4

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

U T D 9 9 1 3 0 1 7 4 8

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. Non-Hazardous Waste Solid

12. Containers
No. Type

0 0 1 C M

13. Total
Quantity

0 0 0 9 5

14. Unit
WT/Vol

T

15. Waste No.

CA 611

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Materials Listed Above

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

GONDOLA # MP643588

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.

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Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7660

GENERATOR

TRANSPORTER

FACILITY

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/10/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034512

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26187	190000 Lbs	920005923A	79800 Lbs	161640 Lbs	39.90
90826187	0 Lbs	920005925A	56100 Lbs	0 Lbs	28.05
90826187	0 Lbs	920005937A	25740 Lbs	0 Lbs	12.87
90826187					
	190000 Lbs		161640 Lbs	161640 Lbs	80.82

DIFFERENCE -14.926%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NO

INITIAL _____ DATE ____/____/____

PRINTED ON 06/26/92

* NOT DEPARTED

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. **CAL00002950026188**
Manifest Document No. **26188**

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

3. Generator's Name and Mailing Address
**Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179**
4. Generator's Phone **(402) 271-2261**

A. State Manifest Document Number
90826188

B. State Generator's ID
H1S1H1Q13161072FD712141

5. Transporter 1 Company Name
Union Pacific Railroad
8. US EPA ID Number
NED001792910

C. State Transporter's ID
402/271-2234

7. Transporter 2 Company Name
USPCI
8. US EPA ID Number
TXD988052494

E. State Transporter's ID
800/877-0454

9. Designated Facility Name and Site Address
**USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT**
10. US EPA ID Number
UTD991301748

G. State Facility's ID
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
15. Waste No.

a. **Non-Hazardous Waste Solid**

001CM000095T

CA 61

J. Additional Descriptions for Materials Listed Above
100-1078 - Petroleum Hydrocarbon Cont. Soil

K. Handling Codes for Waste Listed Above

15. Special Handling Instructions and Additional Information

Site address: **Western Pacific Railyard, Sacramento, CA**
Project #: **94817**
Gould #MP640894

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.
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Printed/Typed Name **D.E. BREWER** Signature **D.E. Brewer** Month **5** Day **21** Year **91**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name **D.E. BREWER** Signature **D.E. Brewer** Month **5** Day **21** Year **91**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name **D.E. BREWER** Signature **D.E. Brewer** Month **5** Day **21** Year **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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

GENERATOR

TRANSPORTER

FACILITY

MEMO # _____

Lead ~~Committee~~'s Initials SA

**UNIFORM HAZARDOUS
WASTE MANIFEST**

Generator's US EPA ID No.

Manifest

2. Page 1

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

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

N E D 0 0 1 7 9 2 9 1 0

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

T X D 9 8 8 0 5 2 4 9 4

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

A. State Manifest Document Number

90826189

B. State Generator's ID

H S H Q 3 6 0 2 0 7 2 4

C. State Transporter's ID

402/271-2261

E. State Transporter's ID

800/877-0454

G. State Facility's ID

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-Hazardous Waste Solid

0 0 1

C M

0 0 0 9 5

T

CA 611

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

GM 91-1078 -- Petroleum Hydrocarbon Cnt. Soil

K. Handling Conditions/Warnings/Labels/Placards

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

CONDOGA # MKT 16467

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.

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Printed/Typed Name

D.E. BREWER

Signature

D.E. Brewer

Month Day Year

5/21/91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

D.E. Brewer

Signature

D.E. Brewer

Month Day Year

5/21/91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

D.E. BREWER

Signature

D.E. Brewer

Month Day Year

5/21/91

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

Signature

Month Day Year

Do Not Write Below This Line

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/05/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034513

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26189	190000 Lbs	920005798A	75840 Lbs	164640 Lbs	37.92
90826189	0 Lbs	920005799A	70840 Lbs	0 Lbs	35.42
90826189	0 Lbs	920005801A	17960 Lbs	0 Lbs	8.98
90826189					
<hr/>					
	190000 Lbs		164640 Lbs	164640 Lbs	82.32

DIFFERENCE -13.347%

WEIGHT DISCREPANCY YES

INITIAL. _____

DISCREPANCY RESOLVED YES / NOINITIAL. _____ DATE / /

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
C A L 0 0 0 0 2 9 5 0 0
Manifest Document No.
2 6 1 9 0

2. Page 1
of 1

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

3. Generator's Name and Mailing Address
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179
4. Generator's Phone (402) 271-2261

A. State Identification Number
90826190

B. State Generator's ID
H S H 0 3 6 0 2 0 7 2 4

5. Transporter 1 Company Name
Union Pacific Railroad

6. US EPA ID Number
N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID
D. Transporter's Phone (402) 271-2254

7. Transporter 2 Company Name
USPCI

8. US EPA ID Number
T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID
F. Transporter's Phone (800) 877-0454

9. Designated Facility Name and Site Address
USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

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

a. Non-Hazardous Waste Solid

0,0,1 C M 0,0,0,9,5 T

CA 611

b.

c.

d.

J. Additional Descriptions for Materials Listed Above
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Materials Listed Above

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817
GANDOLA# MP 642210

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.

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Printed/Typed Name

D. E. BREWER

Signature

D. E. BREWER

Month Day Year
5 21 9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

D. E. BREWER

Signature

D. E. BREWER

Month Day Year
5 21 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

GENERATOR

TRANSPORTER

FACILITY

MEM $\frac{H}{H} =$ _____

~~Railcar~~ # MP6421D was manifested to Grassy Mountain use
~~manifest~~ numbers in column A. The ~~railcar~~ was unloaded
~~received~~ at the facility using the load #s in column B.

A		B	
Manifest	Weight	Load	Weight
<u>26190</u>	<u>95 T</u>	<u>5553</u>	<u>42,816D</u>
<u>26190</u>		<u>5554</u>	<u>43,940</u>
<u>26190</u>		<u>55105</u>	<u>81,000</u>
(190,000 lbs.)			(167,800)

Weight discrepancy ~~Yes~~ No

OK

Lead Controller's Initials SA

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
C A L 0 0 0 0 2 9 5 0 0
Manifest Document No.
2 6 1 9 1

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

3. Generator's Name and Mailing Address
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179
4. Generator's Phone (402) 271-2261

A. State Manifest Document Number
90826191

B. State Generator's ID
H S H Q 3 6 0 2 0 7 2 4

5. Transporter 1 Company Name
Union Pacific Railroad

6. US EPA ID Number
N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID
D. Transporter's Phone 402/271-2234

7. Transporter 2 Company Name
USPCI

8. US EPA ID Number
T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID
F. Transporter's Phone 800/877-0454

9. Designated Facility Name and Site Address
USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT
10. US EPA ID Number
U T D 9 9 1 3 0 1 7 4 8

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
15. Waste No.

a. Non-Hazardous Waste Solid

0 0 1 C M 0 0 0 9 5 T CA 611

b. c. d. e. f. g. h. i. j. k. l. m. n. o. p. q. r. s. t. u. v. w. x. y. z.

J. Additional Descriptions for Materials Listed Above
GM 91-1078 - Petroleum Hydrocarbon Cont. Soil

K. Handling Codes for Materials Listed Above

15. Special Handling Instructions and Additional Information
Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817
GONDRA#UP32331

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.
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Printed/Typed Name *Union Pacific Railroad* Signature *[Signature]* Month Day Year *05/21/91*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name *Union Pacific Railroad* Signature *[Signature]* Month Day Year *05/21/91*

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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-862-7560

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/04/92

EPA ID # CAL000029500 GM91-1078
UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034514

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26191	190000 Lbs	920005727A	17300 Lbs	159240 Lbs	8.65
90826191	0 Lbs	920005728A	85600 Lbs	0 Lbs	42.80
90826191	0 Lbs	920005732A	43200 Lbs	0 Lbs	21.60
90826191	0 Lbs	920005734A	13140 Lbs	0 Lbs	6.57
90826191					
190000 Lbs			159240 Lbs	159240 Lbs	79.62

DIFFERENCE -16.189%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NO

INITIAL _____ DATE ____/____/____

PRINTED ON 06/26/92

* NOT DEPARTED

**UNIFORM HAZARDOUS
WASTE MANIFEST**

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

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

NE D 0 0 1 7 9 2 9 1 0

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

TX D 9 8 8 0 5 2 4 9 4

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT, -Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

UT D 9 9 1 3 0 1 7 4 8

A. State Manifest Document Number

90826192

B. State Generator's ID

HS HQ 3 6 0 2 0 7 2 4

C. State Transporter's ID

D. Transporter's Phone 402/271-2234

E. State Transporter's ID

F. Transporter's Phone 800/877-0454

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

15. Waste No.

a. Non-Hazardous Waste Solid

0 0 1 C M

0 0 0 9 5

T

CA 611

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Waste Listed Above

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

GONDOLA # MP640574

16.

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

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

Printed/Typed Name

Signature

Month Day Ye.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Ye.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Ye.

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Ye.

Do Not Write Below This Line

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/02/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034515

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26192	190000 Lbs	920005678A	55300 Lbs	168980 Lbs	27.65
90826192	0 Lbs	920005680A	67840 Lbs	0 Lbs	33.92
90826192	0 Lbs	920005726A	45840 Lbs	0 Lbs	22.92
90826192					
190000 Lbs			168980 Lbs	168980 Lbs	84.49

DIFFERENCE -11.063%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NO

INITIAL _____ DATE ____/____/____

PRINTED ON 06/26/92

* NOT DEPARTED

Please print or type. Form designed for use on site (with typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No.

Manifest
Document No.

2. Page 1

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

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

NE D 0 0 1 7 9 2 9 1 0

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

TX D 9 8 8 0 5 2 4 9 4

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

UT D 9 9 1 3 0 1 7 4 8

A. State Manifest Document Number
90826193

B. State Generator's ID#
HS HQ 3 6 0 2 0 7 2 4

C. State Transporter's ID#
402721-2234

E. State Transporter's ID#
8007877-0454

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)

a. Non-Hazardous Waste Solid

12. Containers
No. Type

0 0 1 C M 0 0 0 9 5 T

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Materials Listed Above

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

GOADOLA#641489

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.

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Printed/Typed Name

Signature

Month Day Yr

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Yr

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Yr

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Yr

Do Not Write Below This Line

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/02/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034516

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26193	190000 Lbs	920005672A	41220 Lbs	166860 Lbs	20.61
90826193	0 Lbs	920005674A	49480 Lbs	0 Lbs	24.74
90826193	0 Lbs	920005675A	36440 Lbs	0 Lbs	18.22
90826193	0 Lbs	920005676A	22700 Lbs	0 Lbs	11.35
90826193	0 Lbs	920005677A	17020 Lbs	0 Lbs	8.51
90826193					
<hr/>					
	190000 Lbs		166860 Lbs	166860 Lbs	83.43

DIFFERENCE -12.179%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NO

INITIAL _____ DATE ____/____/____

PRINTED ON 06/26/92

* NOT DEPARTED

Please print or type. Form designed for use on side () ch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

CAL000029500

Manifest Document No.

26194

2. Page 1

of 1

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

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone () 402 271-2261

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

NED001792910

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

TXD988052494

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

UTD991301748

A. State Manifest Document Number

90826194

B. State Generator's ID

HSHQ36020724

C. State Transporter's ID

D. Transporter's Phone 402/271-2234

E. State Transporter's ID

F. Transporter's Phone 800/877-0454

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)

a. Non-Hazardous Waste Solid

12. Containers
No. Type

001CM

13. Total Quantity

00095

14. Unit
Wt/Vol

T

L Waste No.

CA 611

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes for Wastes Listed Above

15. Special Handling instructions and Additional information

Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817

GONDOLA# MP640913

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.

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Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

GENERATOR

TRANSPORTER

FACILITY

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/10/92

EPA ID # CAL000029500 GM91-1078
UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034517

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26194	190000 Lbs	920005911A	45660 Lbs	166660 Lbs	22.83
90826194	0 Lbs	920005912A	53900 Lbs	0 Lbs	26.95
90826194	0 Lbs	920005913A	67100 Lbs	0 Lbs	33.55
90826194					
<hr/>					
	190000 Lbs		166660 Lbs	166660 Lbs	83.33

DIFFERENCE -12.284%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NOINITIAL _____ DATE / /

Please print or type. Form designed for use on electronic typewriter.

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. C A L 0 0 0 0 2 9 5 0 0
Manifest Document No. 2 6 1 9 5

2. Page 1
of 1

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

3. Generator's Name and Mailing Address
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179
4. Generator's Phone (402) 271-2261

A. State Identification Document Number
90826195

B. State Generator's ID
H S H Q 3 6 0 2 0 7 2 4

5. Transporter 1 Company Name
Union Pacific Railroad

6. US EPA ID Number
N E D 0 0 1 7 9 2 9 1 0

C. State Transporter's ID
D. Transporter's Phone (402) 271-2234

7. Transporter 2 Company Name
USPCI

8. US EPA ID Number
T X D 9 8 8 0 5 2 4 9 4

E. State Transporter's ID
F. Transporter's Phone (800) 877-0454

9. Designated Facility Name and Site Address
USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

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

a. Non-Hazardous Waste Solid

0 0 1 C M 0 0 0 9 5 T

b.

c.

d.

J. Additional Descriptions for Materials Listed Above
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Codes and Special Instructions

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA
Project #: 94817

RAIL CAR # MP 643700

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.

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Printed/Typed Name
DE BREWER

Signature
DE BREWER

Month Day Year
5 20 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

GENERATOR

TRANSPORTER

FACILITY

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/02/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034518

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26195	190000 Lbs	920005648A	40400 Lbs	151480 Lbs	20.20
90826195	0 Lbs	920005650A	30500 Lbs	0 Lbs	15.25
90826195	0 Lbs	920005652A	44620 Lbs	0 Lbs	22.31
90826195	0 Lbs	920005653A	35960 Lbs	0 Lbs	17.98
90826195					
<hr/>					
	190000 Lbs		151480 Lbs	151480 Lbs	75.74

DIFFERENCE -20.274%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NOINITIAL _____ DATE / /

Please print or type. Form designed for use on site (with typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No.

Manifest
Document No.

2. Page 1

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

CAL00002950026196

of 1

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

A. State-Manifest Document Number

90826196

B. State-Generator's ID No.

HSHQ36020724

C. State-Transporter's ID No.

402771-2234

E. State-Transporter's ID No.

800787-0454

G. State-Facility's ID No.

805395-3900

5. Transporter 1 Company Name

Union Pacific Railroad

8. US EPA ID Number

NED001792910

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

TXD988052494

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

UTD991301748

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. Non-Hazardous Waste Solid

12. Containers

No. Type

13. Total Quantity

Unit

Wt/Vol

001 CM 00095 T

J. Additional Descriptions for Materials Listed Above

GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil

K. Handling Instructions

15. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA

Project #: 94817

CONDOA* MP 640723

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.

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Printed/Typed Name

DE BREWER

Signature

DE Brewer

Month Day Year

5/20/96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

DE BREWER

DE Brewer

5/20/96

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-882-7550

GENERATOR

TRANSPORTER

FACILITY

USPCI GRASSY MOUNTAIN

RAIL RECONCILIATION FORM

ARRIVED 06/08/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034519

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26196	190000 Lbs	920005838A	48840 Lbs	160520 Lbs	24.42
90826196	0 Lbs	920005847A	52520 Lbs	0 Lbs	26.26
90826196	0 Lbs	920005852A	59160 Lbs	0 Lbs	29.58
90826196					
190000 Lbs			160520 Lbs	160520 Lbs	80.26

DIFFERENCE -15.516%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NOINITIAL _____ DATE / /

PRINTED ON 06/26/92

* NOT DEPARTED

Please print or type. Form designed for use on electronic typewriter.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
C, A, L, 0, 0, 0, 0, 2, 9, 5, 0, 0, 2, 6, 1, 9, 7

Manifest
Document No. 7

2. Page 1
of 1

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

3. Generator's Name and Mailing Address

Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, NE 68179

4. Generator's Phone (402) 271-2261

5. Transporter 1 Company Name

Union Pacific Railroad

6. US EPA ID Number

N, E, D, 0, 0, 1, 7, 9, 2, 9, 1, 0

7. Transporter 2 Company Name

USPCI

8. US EPA ID Number

T, X, D, 9, 8, 8, 0, 5, 2, 4, 9, 4

9. Designated Facility Name and Site Address

USPCI Grassy Mountain Facility
3 miles east, 7 miles north
of Knolls, UT - Exit 41 off I-80 near Clive, UT

10. US EPA ID Number

U, T, D, 9, 9, 1, 3, 0, 1, 7, 4, 8

A. State Manifest Document Number

90826197

B. State Generator's ID

H, S, E, Q, 3, 6, 0, 2, 0, 7, 2, 4

C. State Transporter's ID

402/271-2234

E. State Transporter's ID

800/877-0434

G. State Facility's ID

801/595-3900

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. Non-Hazardous Waste Solid

12. Containers
No. Type

0, 0, 1 C, M, Q, Q, Q, 9, 5 T

13. Total
Quantity

14. Unit
Wt/Vol

15. Waste No.

CA-611

J. Additional Descriptions for Materials Listed Above

GM 91-1078 -- Petroleum Hydrocarbon Cnt. Soil

K. Handling Instructions for Materials Listed Above

16. Special Handling Instructions and Additional Information

Site address: Western Pacific Railyard, Sacramento, CA
Project #: 4695817 94817

GMDOLA#MPG42982

16.

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Printed/Typed Name

DE BREWER

Signature

DE Brewer

Month Day Year

5/20/97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

DE BREWER

Signature

DE Brewer

Month Day Year

5/20/97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Month Day Year

Do Not Write Below This Line

USPCI GRASSY MOUNTAIN
RAIL RECONCILIATION FORM

ARRIVED 06/08/92

EPA ID # CAL000029500 GM91-1078UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034520

MANIFEST #	MANIFESTED WEIGHT	LOAD #	SITE WEIGHT	RESOLVED WEIGHT	BILL TONS
26197	190000 Lbs	920005823A	46120 Lbs	161120 Lbs	23.06
90826197	0 Lbs	920005826A	44800 Lbs	0 Lbs	22.40
90826197	0 Lbs	920005830A	70200 Lbs	0 Lbs	35.10
90826197					
190000 Lbs			161120 Lbs	161120 Lbs	80.56

DIFFERENCE -15.200%

WEIGHT DISCREPANCY YES

INITIAL _____

DISCREPANCY RESOLVED YES / NOINITIAL _____ DATE 9/1

PRINTED ON 06/26/92

* NOT DEPARTED

Appendix C

APPENDIX C
LIST OF TRUCK WEIGHT TICKETS AND TONNAGE

LIST OF TRUCK WEIGHT TICKETS AND TONNAGE

Date	Ticket No.	Net Tons	Type Waste
12-MAY-92	00506041	17.59	Inert #2
12-MAY-92	00506109	17.60	Inert #2
12-MAY-92	00506174	25.11	Inert #2
12-MAY-92	00506168	19.80	Inert #2
12-MAY-92	00506100	18.60	Inert #2
12-MAY-92	00506028	21.42	Inert #2
13-MAY-92	00506361	16.13	Inert #2
13-MAY-92	00605492	18.63	Inert #2
13-MAY-92	00506472	20.43	Inert #2
13-MAY-92	00506468	20.35	Inert #2
13-MAY-92	00506412	17.44	Inert #2
13-MAY-92	00506530	16.06	Inert #2
13-MAY-92	00506303	19.06	Inert #2
13-MAY-92	00506451	18.98	Inert #2
13-MAY-92	00506457	20.45	Inert #2
13-MAY-92	00506521	15.47	Inert #2
13-MAY-92	00506485	17.38	Inert #2
13-MAY-92	00506312	20.92	Inert #2
13-MAY-92	00506369	20.13	Inert #2
13-MAY-92	00506315	21.52	Inert #2
13-MAY-92	00506432	17.03	Inert #2
13-MAY-92	00506420	19.73	Inert #2
13-MAY-92	00506356	20.27	Inert #2
13-MAY-92	00506391	17.41	Inert #2
13-MAY-92	00506373	19.40	Inert #2
13-MAY-92	00506505	16.42	Inert #2

List of Truck Weight Tickets and Tonnage (continued)

Date	Ticket No.	Net Tons	Type Waste
13-MAY-92	00506461	18.16	Inert #2
13-MAY-92	00506538	17.91	Inert #2
13-MAY-92	00506268	14.85	Inert #2
13-MAY-92	00506335	16.32	Inert #2
13-MAY-92	00506275	17.37	Inert #2
13-MAY-92	00506340	17.00	Inert #2
13-MAY-92	00506289	16.64	Inert #2
13-MAY-92	00506345	17.12	Inert #2
13-MAY-92	00506542	19.15	Inert #2
13-MAY-92	00506407	18.48	Inert #2
13-MAY-92	00506396	23.17	Inert #2
13-MAY-92	00506514	18.08	Inert #2
13-MAY-92	00506509	17.54	Inert #2
13-MAY-92	00506435	21.35	Inert #2
13-MAY-92	00506298	16.83	Inert #2
14-MAY-92	00506636	17.50	Inert #2
14-MAY-92	00506746	19.18	Inert #2
14-MAY-92	00506737	19.81	Inert #2
14-MAY-92	00506732	18.01	Inert #2
14-MAY-92	00506729	17.50	Inert #2
14-MAY-92	00506726	19.75	Inert #2
14-MAY-92	00506809	19.24	Inert #2
14-MAY-92	00506602	15.86	Inert #2
14-MAY-92	00506781	17.91	Inert #2
14-MAY-92	00506613	19.90	Inert #2
14-MAY-92	00506621	16.74	Inert #2

List of Truck Weight Tickets and Tonnage (continued)

Date	Ticket No.	Net Tons	Type Waste
14-MAY-92	00506788	22.65	Inert #2
14-MAY-92	00506791	19.49	Inert #2
14-MAY-92	00506799	18.78	Inert #2
14-MAY-92	00506841	17.56	Inert #2
14-MAY-92	00506625	18.19	Inert #2
14-MAY-92	00506629	17.73	Inert #2
14-MAY-92	00506698	19.30	Inert #2
14-MAY-92	00506860	21.64	Inert #2
14-MAY-92	00506693	18.36	Inert #2
14-MAY-92	00506690	19.96	Inert #2
14-MAY-92	00506845	17.97	Inert #2
14-MAY-92	00506851	21.68	Inert #2
14-MAY-92	00506683	18.07	Inert #2
14-MAY-92	00506674	17.88	Inert #2
14-MAY-92	00506855	19.89	Inert #2
14-MAY-92	00506858	18.69	Inert #2
15-MAY-92	00506664	18.54	Inert #2
15-MAY-92	00507132	16.01	Inert #2
15-MAY-92	00507130	17.22	Inert #2
15-MAY-92	00507143	17.73	Inert #2
15-MAY-92	00507014	18.74	Inert #2
15-MAY-92	00507000	16.98	Inert #2
15-MAY-92	00507120	18.30	Inert #2
15-MAY-92	00507116	17.02	Inert #2
15-MAY-92	00507072	21.40	Inert #2
15-MAY-92	00507065	18.46	Inert #2

List of Truck Weight Tickets and Tonnage (continued)

Date	Ticket No.	Net Tons	Type Waste
15-MAY-92	00507059	18.01	Inert #2
15-MAY-92	00507053	18.06	Inert #2
15-MAY-92	00507050	18.58	Inert #2
15-MAY-92	00507009	18.68	Inert #2
15-MAY-92	00506925	16.08	Inert #2
15-MAY-92	00506954	19.88	Inert #2
15-MAY-92	00507019	18.51	Inert #2
15-MAY-92	00506945	19.91	Inert #2
15-MAY-92	00507003	16.75	Inert #2
15-MAY-92	00506936	18.22	Inert #2
15-MAY-92	00506928	16.41	Inert #2
28-MAY-92	00510120	17.39	Inert #2
28-MAY-92	00510126	17.67	Inert #2
28-MAY-92	00510140	17.98	Inert #2
28-MAY-92	00510207	21.58	Inert #2
28-MAY-92	00510130	20.10	Inert #2
28-MAY-92	00510135	15.31	Inert #2
28-MAY-92	00510195	20.92	Inert #2
28-MAY-92	00510326	19.16	Concrete
28-MAY-92	00510256	23.97	Concrete
28-MAY-92	00510260	21.57	Concrete
28-MAY-92	00510317	17.54	Concrete
28-MAY-92	00510249	23.12	Concrete
28-MAY-92	00510312	22.37	Concrete
28-MAY-92	00510310	18.63	Concrete
28-MAY-92	00510298	19.37	Concrete

List of Truck Weight Tickets and Tonnage (continued)

Date	Ticket No.	Net Tons	Type Waste
28-MAY-92	00510079	20.33	Concrete
28-MAY-92	00510051	17.76	Concrete
28-MAY-92	00510263	17.20	Concrete
28-MAY-92	00510235	18.39	Concrete
28-MAY-92	00510192	21.15	Concrete
28-MAY-92	00510188	16.96	Concrete
28-MAY-92	00510066	19.70	Concrete
28-MAY-92	00510069	19.50	Concrete
28-MAY-92	00510059	19.02	Concrete
28-MAY-92	00510181	20.06	Concrete
29-MAY-92	00510638	20.29	Concrete
29-MAY-92	00510535	18.37	Concrete
29-MAY-92	00510583	16.15	Concrete
29-MAY-92	00510404	18.73	Concrete
29-MAY-92	00510458	20.74	Concrete
29-MAY-92	00510585	21.01	Concrete
29-MAY-92	00510663	21.81	Concrete
29-MAY-92	00510571	21.59	Concrete
29-MAY-92	00510670	18.46	Concrete
29-MAY-92	00510655	19.73	Concrete
29-MAY-92	00510539	19.34	Concrete
29-MAY-92	00510473	19.80	Concrete
29-MAY-92	00510396	18.91	Concrete
29-MAY-92	00510515	20.45	Concrete
29-MAY-92	00510375	20.00	Concrete
29-MAY-92	00510381	20.41	Concrete

List of Truck Weight Tickets and Tonnage (continued)

Date	Ticket No.	Net Tons	Type Waste
29-MAY-92	00510386	18.60	Concrete
29-MAY-92	00510483	19.08	Concrete
29-MAY-92	00510533	17.08	Concrete
29-MAY-92	00510523	19.70	Concrete
29-MAY-92	00510602	19.58	Concrete
29-MAY-92	00510479	20.06	Concrete
29-MAY-92	00510446	19.41	Concrete
02-JUN-92	00511428	20.64	Inert #2
02-JUN-92	00511550	20.03	Inert #2
02-JUN-92	00511492	19.92	Inert #2
02-JUN-92	00511417	22.27	Inert #2
02-JUN-92	00511368	19.22	Inert #2
02-JUN-92	00511368	24.78	Inert #2
02-JUN-92	00511554	19.62	Inert #2
02-JUN-92	00511481	19.55	Inert #2
03-JUN-92	00511769	16.80	Inert #2
03-JUN-92	00511833	22.00	Concrete
03-JUN-92	00511835	21.16	Concrete
03-JUN-92	00511634	19.46	Concrete
03-JUN-92	00511916	22.10	Concrete
03-JUN-92	00511662	17.94	Concrete
03-JUN-92	00511811	17.48	Concrete
03-JUN-92	00511878	20.54	Concrete
03-JUN-92	00511793	16.55	Concrete
03-JUN-92	00511781	22.01	Concrete
03-JUN-92	00511773	19.86	Concrete

List of Truck Weight Tickets and Tonnage (continued)

Date	Ticket No.	Net Tons	Type Waste
03-JUN-92	00511751	17.83	Concrete
03-JUN-92	00511722	16.04	Concrete
03-JUN-92	00511724	19.84	Concrete
03-JUN-92	00511718	22.06	Concrete
03-JUN-92	00511828	20.39	Concrete
03-JUN-92	00511672	18.60	Concrete
03-JUN-92	00511872	19.17	Concrete
03-JUN-92	00511670	14.04	Concrete
03-JUN-92	00511663	18.58	Concrete
03-JUN-92	00511705	19.57	Concrete
03-JUN-92	00511713	19.39	Concrete
03-JUN-92	00513770	14.67	Concrete
11-JUN-92	00513892	15.89	Concrete
11-JUN-92	00513911	6.34	Concrete
11-JUN-92	00518707	18.89	Concrete
11-JUN-92	00513331	24.26	Concrete
11-JUN-92	00513822	21.49	Concrete
15-JUN-92	00514548	10.52	Concrete
15-JUN-92	00514612	6.95	Concrete
24-JUN-92	00516829	6.52	Normal

Inert #2 - Contains mostly asphalt.

Normal - Wood, paper, cardboard, and plastic debris.