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JULY, 1992

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

DAMES & MOORE

JULY 1992 PROJECT NO. 00173-072-044

DAMES & MOORE

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July 22, 1992

Mr. Val L. Siebal Region 1, Department of Toxic Substances Control California Environmental Protection Agency 10151 Croydon Way, Suite 3 Sacramento, CA 95827

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

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

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

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.

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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.

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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 Caterpiller 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.

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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.

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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.

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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)	
IL & GREASE		580.0	•	
PH/DIESEL	< 0.2	-	-	
PH/GASOLINE	< 0.1	-	-	
PH/MOTOR OIL	< 0.5	-	820.0 *	

All units reported as mg/kg (ppm)

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

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

^{- =} Parameter not analyzed.

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

TABLE 2

ANALYTICAL RESULTS: METALS

CONCRETE TANK, ASPHALT AND CONCRETE DEBRIS COMPOSITE SAMPLES

UNION PACIFIC RAILROAD YARD

SACRAMENTO, CALIFORNIA

	CONCRETE TA	ANK 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.</p>

^{- =} 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-D1CHLOROETHANE	< 3	•	•
1,1-DICHLOROETHENE	<u><</u> 3	< 5 _	< 5
1,2-DICHLOROBENZENE	< 3	•	-
1,2-DICHLOROETHANE	< 1	< 5	< 5
1,2-DICHLOROPROPANE	< 3	•	-
1,3-DICHLOROBENZENE	< 3	. •	-
1,4-DICHLOROBENZËNE	< 3	< 5	< 5
2-BUTANONE	< 20	<100	<100
2-CHLOROETHYLVINYL ETHER	< 3		-
2 · HEXANONE	< 10	•	-
4-METHYL-2-PENTANONE	< 10	-	•
ACETONE	< 10	•	-
BENZENE	< 1	< 5	< 5
BROMOD 1 CHLOROME THANE	< 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 _	<u> </u>	•	•
CIS-1,2-DICHLOROETHENE	< 3	•	Ţ
CIS-1,3-DICHLOROPROPENE	< 3	•	•
DIBROMOCHLOROMETHANE	< 3	•	•
ETHYL BENZENE	< 3	•	•
METHYLENE CHLORIDE	< 10	•	-
STYRENE	< 3	-	-
TETRACHLORGETHENE	< 3	< 5	< 5
TOLUENE	,< 3	·	-
TOTAL XYLENES	< 3	-	-
TRANS-1,2-DICHLOROETHENE	٠ 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.</p>

^{- =} Parameter not analyzed.

TABLE 4

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

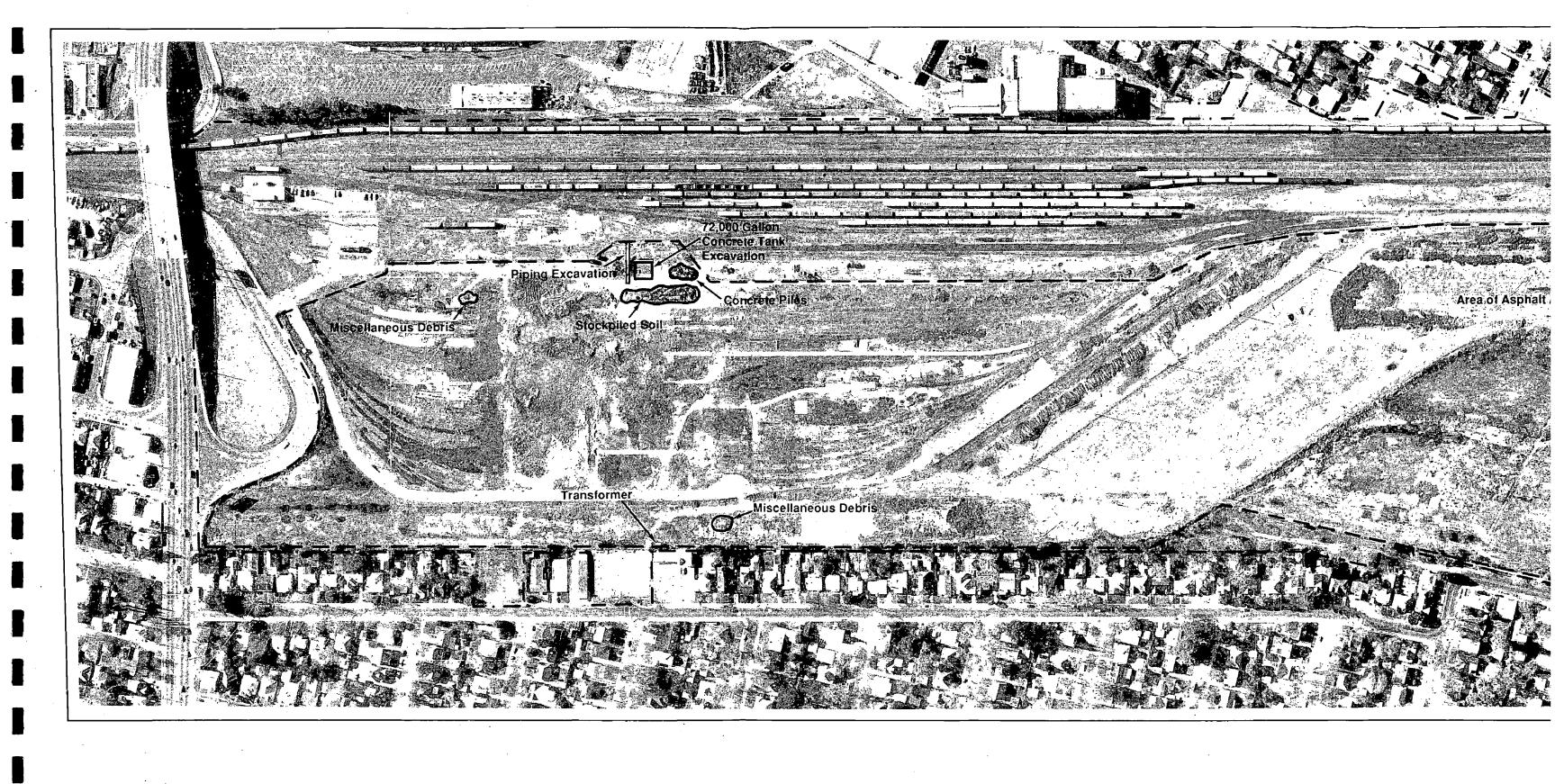
	PIPING EXCA	PIPING EXCAVATION FLOOR		TANK EXCAVATION FLOOR		
SAMPLE	72KT-P1	72KT-P2	72KT-S-1	72KT-\$-2	72KT-S-3	
DATE	05/27/92	05/27/92	05/06/92	05/06/92	05/06/92	
TPH/BUNKER FUEL	-	-	< 10	< 10	< 10	
TPH/DIESEL	< 10	25	-	-	-	
TPH/GASOLINE	< 25	< 5	-	•	•	
TPH/MOTOR OIL	< 10	115	-	-	-	

All units reported as mg/kg (ppm)

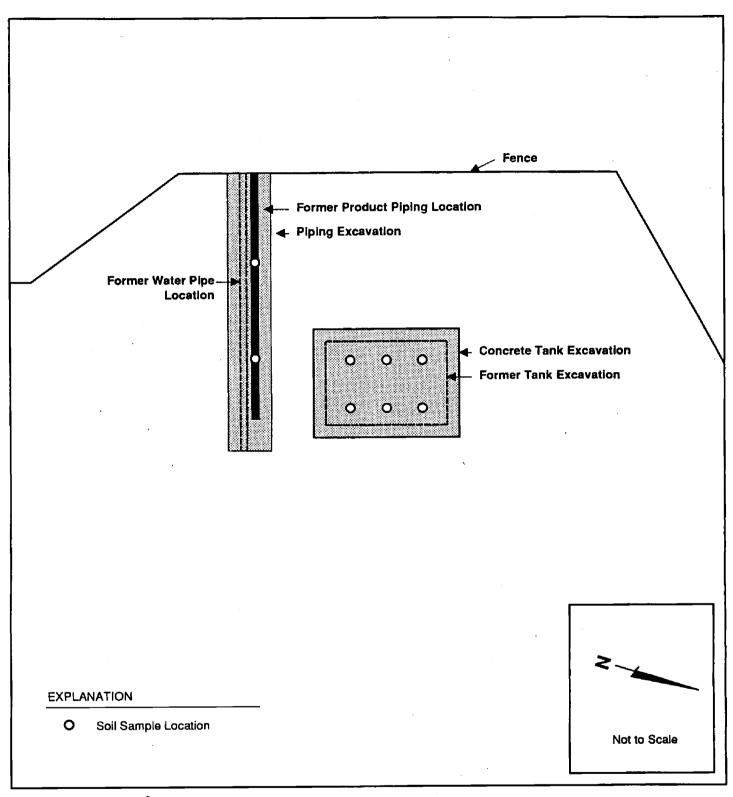
< = Constituent below detection limit. Detection limits may vary depending on interference by other sample constituents.</p>

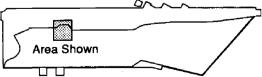
- = Parameter not analyzed.

i Gures









CONCRETE TANK AND PIPING EXCAVATION SCHEMATIC DIAGRAM

Union Pacific Ralifoad Yard Sacramento, California JULY 1992 Appendix

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.

rojeci: Urkk 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:

ANALYSIS

METHOD

SAMPLE ID.

Total Petroleum Hydrocarbons

EPA 8015 (Modified)

72K-H20

Sincerely, EUREKA LABORATORIES, INC.

Bv:

Shao-Pin Yo, Ph.D.

Laboratory Director

SPY/pvc

Attachment

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

EUREKA LABORATORIES, INC. Order No.: 92-03-198 Hazardous Waste Testing 6790 Florin Perkins Road Certification No.: E765 Sacramento, CA 95828 (916)381-7953CLIENT: DAMES AND MOORE DATE SAMPLED: NA DATE RECEIVED: 03/23/92 CONTRACT #: NA PROJECT: UPRR SAC (00173-072-044) DATE EXTRACTED: 03/24/92 TASK #: NA DATE ANALYZED: 03/25/92 P.O. #: NA INSTRUMENT ID: SVG1 SAMPLE LOCATION: NA MATRIX: WATER % MOISTURE: NA ELI SAMPLE ID: 9203198-02A REPORT WT: NA FILE ID: NA SAMPLE ID: METHOD BLANK SAMPLE VOL./WT.: 1000mL DILUTION FACTOR:

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

Samir Samaan 04/01/92
Chemist Date

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

EUREKA LABORATORIES, INC. Order No.: 92-03-198 Hazardous Waste Testing 6790 Florin Perkins Road Certification No.: E765 Sacramento, CA 95828 (916)381-7953CLIENT: DAMES AND MOORE DATE SAMPLED: NA CONTRACT #: NA DATE RECEIVED: 03/23/92 PROJECT: UPRR SAC (00173-072-044) DATE EXTRACTED: 03/24/92 TASK #: NA DATE ANALYZED: 03/25/92 P.O. #: NA INSTRUMENT ID: SVG1 SAMPLE LOCATION: NA MATRIX: WATER ELI SAMPLE ID: 9203198-06A % MOISTURE: NA FILE ID: NA REPORT WT: NA SAMPLE ID: REAGENT SPIKE RECOVERY SAMPLE VOL./WT.: 500mL

ľ	
CONCENTRATION	PETROLEUM HYDROCARBONS
NA 76% NA	Gasoline Range Diesel Range Motor Oil Range 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	04/01/92
Chemist	Date

Modified EPA Method 8015 (GC-FID)

Order No.: 92-03-198 EUREKA LABORATORIES, INC. Hazardous Waste Testing 6790 Florin Perkins Road Certification No.: E765 Sacramento, CA 95828 (916)381-7953 CLIENT: DAMES AND MOORE DATE SAMPLED: NA DATE RECEIVED: 03/23/92 CONTRACT #: NA DATE EXTRACTED: 03/24/92 PROJECT: UPRR SAC (00173-072-044) TASK #: NA DATE ANALYZED: 03/25/92 INSTRUMENT ID: SVG1 P.O. #: NA SAMPLE LOCATION: NA MATRIX: WATER % MOISTURE: NA ELI SAMPLE ID: 9203198-07A FILE ID: NA REPORT WT: NA SAMPLE ID: REAGENT SPIKE RECOVERY DUP SAMPLE VOL./WT.: 500mL PETROLEUM HYDROCARBONS CONCENTRATION Gasoline Range NA 77% Diesel Range 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

			18°C
6790 FLORIN PERKINS ROAD	RESULTS TO CLIENT Dames + Moore ADDRESS 9801 Felsom Alve ,#200 CONTACT Kevin Brown PHONE 307-8000	INVOICE TO	SHIPPING METHOD hard Carry
		ANALYSIS REQ	T P C E M O M W P D 1 1 1 1 0 M
A 72K-HZO 3/23/4Z 72K-HZO	/ Ixll		
		** And while the distinct of t	A
AMPLER'S SIGNATURE DATE/TIME RELING Slewy Delama 3/23/42 1005	DUISHED BY: DATE/TII	ME RECEIVED BY:	DATE/TIME
ECEIVED BY: DATE/TIME RELING	DUISHED BY: DATE/TH	HE 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

FAX (707) 763-4065

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

Client Code: DAMM7

Survey # UPPR-SACTO

Page 1

Project/Release # 00173-072-044

LABORATORY RESULTS

Laboratory Job No.: 920835

Date Received: 03/23/92 Date Reported: 04/06/92

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

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	мв	AS	ND:	· .	0.005
7105	MBS	AS	0.024	SPIKE LEVELS 0.025 mg/L	0.005
7106	мх	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.



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

Page 2

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	FÖUND 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	мв	ĄS	ND	40.TVD - 10.00.4	0.005
7105	MBS	AS	0.024	SPIKE LEVELS 0.025 mg/L	0.005
7106	мх	AS	NĎ	•	0.005
7107	MS	AS	0.023	0.025 mg/L	0.005
7108	MSD	AS	0 023	0.025 mg/L	0.005



3700 Lakeville Highway, Petaluma. CA 94954 P.O. Box 808024, Petaluma. CA 94975-8024

Telephone: (707) 763-8245 FAX (707) 763-4065

Page 3

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		RESUL	TS	1		DET.	LIM.
7102	A-1,2,3,4 PB	SOIL	ND		TCLP	LEVEL 5.0	0.15	mg/L
7103	C-1,2,3,4 PB	SOIL	ND		TCLP	LEVEL 5.0	0.15	mg/L
7104	MB SOIL PB		ND		10. 10.		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.



Page 4

LABORATORY RESULTS

Date Collected: 03/19/92 Laboratory Job No.: 920835
Date Extracted: 03/24/92 Date Received: 03/23/92
Date Analyzed: 04/01/92 Date Reported: 04/06/92

ASSAY: METAL SCAN BY ICP(EPA 6010)

WET EXTRACTION

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



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LABORATORY RESULTS

Page 5

Laboratory Job No.: 920835

		li .	
LABNO SMPLNO-ID	RESULTS		DET. LIM.
		ý 9	
7108 MSD SOIL	•	SPIKE LEVELS	
CÜ	0.48 mg/L	0.5 mg/kg	0.050 mg/L
P B	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 Received: 03/23/92
Date Reported: 04/06/92

ASSAY:

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

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



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Page 7

LABORATORY RESULTS

Laboratory Job No.: 920835

COMPOUNDS: L	AB# 71	05 DET.		DET.		DET.
S	MP# M	BS LIM.	М	X LIM.	М	S LIM.
	il.	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	5 6	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%		9 9 %	
4-BROMOFLUOROBENZENE	101%	•	104%		104%	



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Page 8

LABORATORY RESULTS

Laboratory Job No.: 920835

COMPOUNDS:	LAB# SMP# dil.	MSD	DET. LIM.
PURGEABLES		u	g/L
BENZENE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROFORM 1,4-DICHLOROBENZENE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE TETRACHLOROETHENE TRICHLOROETHENE VINYL CHLORIDE 2-BUTANONE SURROGATE RECOVERIES-	-QC	52 ND 51 ND ND S1 ND 51 ND 51	5.0 5.0 5.0 5.0 5.0 5.0 10
1,2-DICHLOROETHANE-D4 TOLUENE-D8 4-BROMOFLUOROBENZENE		101% 99% 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) 783-8248 FAX: (707) 783-4068

SAMPLE CHAIN OF CUSTODY / WORK ORDER

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%25 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229 1512 / fbx (510) 229-1526

CERTIFICATE OF ANALYSIS

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

Concentration (mg/L)

Sample Identification 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.

Laboratory Manager

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 85487

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 Concentration (mg/L) # Total Lead Sample Id 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.

Bundal. Olin (fr) Laboratory Manager

#25 Arnold Drive, Suite ±14 • Martinez, California 94553 • (510) 229 1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

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

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

LAB Concentration (mg/L) Sample Id Total Arsenic 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.



- 1555 Burke, Unit (• San Francisco, California 94124) • - @15) 647 2081 7 kg @15i 821 7123

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 54703

CLIENT: DAMES & MOORE

CLIENT JOB NO.: 00173-072-044

DATE RECEIVED: 04/13/92

DATE REPORTED: 04/23/92

O 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.



1555 Burke, Unit 1 ★ Smit Ginerato, California 94124 ★ (#15) 647 20% (*15) #15) 821 7123

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 54703

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

CLIENT: DAMES & MOORE

CLIENT JOB NO.: 00173-072-044

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

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.



1555 Burke, Unit L. Sin Francesco, California 94124. • (415) 747-7081-7138 (415) 821-7123.

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	Surrogate Recoveries		
		water	soil
1,2-DCA-d4	98%	76-114	70-121
Toluene-d8	94%	88-110	81-117
Bromofluorobenzene	104%	86-115	74-121

comments:

Richard



1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647 2081 7 fax (415) 821 7123

CERTIFICATE OF ANALYSIS

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	QC	Limits
		water	soil
1,2-DCA-d4	101%	76-114	70-121
Toluene-d8	97%	88-110	81-117
Bromofluorobenzene	108%	86-115	74-121

comments:

Richard Srna, Ph.D.

DAMES & MOORE SAN FRANCISCO LAR CHAIN OF CUSTODY RECORD 415/647-2081 PROJECT NAME PROJ. NO. 00/73-072-ATTAL JOHN MIX -UN UPRR - SACRAMENTO NO. CAMPLERS: /Lowery Of. Kein A. Brown REMARKS CON 54703 TAIHERS STA. NO. STATION LOCATION PLEASE COMPOSITE ALL 72KT-1 4/10/90 72KT-1 FAST WALL FOUR CORES INTO I SAMPLE 72KT-2 SOUTH WALL **おな-**2 WEST WALL TAKE A REPRESENTATIVE SAMPLE 72KT-3 WKT-3 FROM EACH OF THE LORES 72KT-4 NORTH WALL 2KT-4 BY PULVERIZING THE ENTIRE LORE AND WEIGHING OUT. COMPOSITE AN EQUAL MASS FROM AS EACH ZORE DIRECTED Sanir. es Sibrectin i Appropriate col ac in Samples p esei MOA Comments lelinquished by: (Sewer) Date / Time Received by: /Sipreme! Relinquished by: Isimewal Date / Time Received by: Bannel Date / Time Received by: 13-powel Received by: (Signature) Relinquished by: 15-monet Revin J. Brown - Project Geologist -8801 Folson Boulevard, Suite 200 Sacranento CA 75826 leterquested by 15-junes1 Date / Time Date / Time Received for Laboratory by: 13 more off FAX 916/387-3802. 916/387-8000 Dillibration Original Accompanies Shipment, Copy to Coordinator Field Files

SUPERIOR ANALYTICAL, STALL.



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

8801 Folsom Blvd., Suite 200 Project/Release # 00173-072-044

LABORATORY RESULTS

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

Date Reported: 05/11/92

Page 1

Date Analyzed: 05/08/92
ASSAY: FUEL FINGERPRINT SURVEY

Date Collected: 05/06/92

Date Extracted: 05/07/92

MATRIX: SOIL

LABNO SMPLNO-ID

12161 S-1 RESULTS ----TENTATIVE TUUOMA BOILING RANGE DET. LIM. mg/kg degrees C. IDENTIFICATION mg/kg _____ 70-280 50 BUNKER OIL 61.7 MB RESULTS ----TENTATIVE BOILING RANGE DET. LIM. AMOUNT degrees C. IDENTIFICATION mg/kg mg/kg N/A 50 N/A ND MBS RESULTS -----AMOUNT mg/kg DET. LIM. BOILING RANGE degrees C. mg/kg IDENTIFICATION _____ -------631 130-275 50 DIESEL

THIS REPORT HAS EEEN REVIEWED AND APPROVED FOR RELEASE.

Page 2

LABORATORY RESULTS

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.



1555 Burke, Opia F. San Francisco, California 94 (24) • (415) 647-2081 / fax (415) 821 7123

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 54806

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

CLIENT: DAMES & MOORE

CLIENT JOB NO.: 00173-072-044

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,



3700 Lakeville Highway, Petaluma, CA 94952 P.O. Box 808024, Petahima. CA. 94975-8024

SAMPLE CHAIN OF CUSTODY / WORK ORDER

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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:

ANALYSIS METHOD SAMPLE ID.

Total Petroleum EPA 8015 72KT-P1 & 72KT-P2 Hydrocarbons (Modified)

Sincerely, EUREKA LABORATORIES, INC.

By: Shao - P-- Jo 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 HYDROCARBO		ENTRATION (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Rand Diesel Rand Motor Oil Rand Total Petrole Hydrocarbo	ge ge um	<5 <10 <25	5 10 25
CARBON NO. RAN	GE	•	
Gasoline Ran Diesel Ran Motor Oil Ran	ge ge	- - -	
PEAK CARBON N	0.		
Gasoline Ran Diesel Ran Motor Oil Ran	ge	- -	

Samir Samaan

06/01/92

·Chemist

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

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828

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

(916)381-7953

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

% 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 S	Samaan
---------	--------

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 Total Petroleum Hydrocarbons	<25	25
CARBON NO. RANGE	•	
Gasoline Range Diesel Range	· · · · · · · · · · · · · · · · · · ·	
Motor Oil Range	· -	
PEAK CARBON NO.		
Gasoline Range Diesel Range	1	
Motor Oil Range	•	

Samir Samaan

06/01/92

Chemist

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

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	HYDROCA	ARBUNS	
Gá	asoline	Range	

Diesel Range Motor Oil Range Total Petroleum Hydrocarbons

CONCENTRATION

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



92-05-248 1884

ے نیز

1700 LakevSte/Highmay, Petaluma, CA 84952 P.O. Sox 808024, Petaluma, CA, 94975-8024

SAMPLE CHAIN OF CUSTODY / WORK ORDER

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3700 Lakevillo Highway, Petaluma, CA 94952 P.O. Sex 808024, Petaluma, CA, 94975-8024 Telephone: (707) 763-8248 FAX: (707) 763-4065

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	ТРН	552	60
21877 T-10D	TPH	1,040	150

ANALYST: JAN TOISTER



3700 Lekeville Highwity, Petatumi, CA 94952 P.O. Sex 808024, Petaluma, CA, 94976-8024 Telepanna: (707) 763-8248 FAX: (707) 763-4066

Page 4

LABORATORY RESULTS

Laboratory Job No.: 891775

Date Received: 04/27/89

Date Reported: 07/06/89

ASSAY: METAL SCAN BY ICP(EPA 6010)

Date Analyzed: 04/28/89

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

ND=Not Detected ANALYST:NANCY S.TESCHE



3700 Lakeville Highwey, Petaluma. CA 94952 P.O. Box 808024, Petaluma. CA. 94975-8024 Telephone: (707)763-8248 FAX: (707)763-4085

Page 7

LABORATORY RESULTS

Laboratory Job No.: 891775

Date Received: 04/27/89
Date Reported: 07/06/89

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

Date Extracted: 04/25/89

Date Analyzed: 04/25/89

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	3 0. 0 mg/kg		
21877 T-10D DIESEL	78 m g/ kg	3 0. 0 mg/kg		

ANALYST: ROBERT REMLINGER



3700 Lakeville Highway, Petaluma, CA 94952 P.O. Sox 808024, Petpieme, CA, 94975-8024 Telephone: (707) 763-6248 FAX: (707) 763-4068

Page 8

LABORATORY RESULTS

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

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



3700 Lakeville Highway, Petatuma. CA 94952 P.O. Sox 806024, Petaluma. CA, 94976-8024 Telephone: (707)783-8245 FAX; (707)783-4085

Page 9

LABORATORY RESULTS

Laboratory Job No.: 891775

Date Received: 04/27/89 Date Reported: 07/06/89

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

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

MATRIX: SOIL

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

To: David Anderson

Company: USPCI

Time: /300

Fax Number: 921-2025

Charge #:

00173 072 9097 044

From: Dames & Moore (SAC)

Name: KEVIN BROWN

Phone: (916) 387-75 <u>2</u> 9

Message						
SOIL STOCKPILE RESULTS						

Cover Sheet Plus ______ Page Transmitted

03/31/92

13:08

5916 362 7987

DAMES & MOORE

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

@001



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 IDENTIF	FICATION	LABORATORY NUMBER	RESULTS	UNITS	AROCLOR	DETECTION LIMITS
92T-457 UNION	PACIFIC	207633	<1	ppm	ND	1 p pm
5ER# 75125 GE.	8		·			
GE.					•	
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	3					

California State Certified Laboratory

- her tha APPROVED BY:

The sustyries, opinions or interpretations contained in this report are based upon material and interpretation buppied by the ident. Analytical Associates, Inc., IAAI does not must that the contents of the sample received by this lighboratory yie the same as all such material in the environment from which the sample was taken. Cut test results relate only to the sample or sympley tested. Any interpretations of opinions expressed represent the best judgment of AAI, AAI essumes no responsibly and makes no warranty or representation, express or implied, as to the condition, productivity, proper operation, or profitableness of any equipment or other property for which this report may be used or relied upon for any reason antiscever.

Appendix B

APPENDIX B RAIL CAR MANIFESTS

800-852

CALL

FORNIA

1-800-424-8802;

CENTER

RESPONSE

NATIONAL

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Ю

EMERGENCY

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6

CASE

See instructions on Back of Page 6 and Front of Page 7

Department of Health Ser Toxic Substances Control Di-Sacramento, Calif

ich typewmer). Please print or type. Form designed for use on elife (1. Generator e US EPA ID No. Mandest 2. Page 1 UNIFORM HAZARDOUS information in the shaded areas C,A,L,0,0,0,0,2,9,5,0,0 2,6,1,7 ot I WASTE MANIFEST is not required by Federal law. 3. Generator's Name and Mailing Address 908261 Union Pacific Railroad 1416 Dodge Street, Room 930 Omaha, NE 68179
4. Generator's Phone (402) 271-2261 B. State Generator's D. H, S, H, Q, 3, 6, 0, 2, 0, 7, 2, 4, 5. Transporter 1 Company Name US EPA IO Number | N | E | D | O | O | 1 | 7 | 9 | 2 | 9 | 1 | 0 | D. Traceporter's Phos Union Pacific Railroad 402/271-2234 E. State Transparer's (D. 7. Transporter 2 Company Name US EPA ID Number T X, D, 9 8, 8, 0, 5, 2, 4, 9, 4 F. Transporter's Phone USPCI 800/877-0454 9. Designated Faculty Name and Site Andreas USPCI Grassy Mountain Facility US EPA IO Number G. State Facility's ID 3 miles east, 7 miles north of Knolls, UT - Exit 41 off I-80 near Clive, Utah H. Facility's Phos 801/595-3900 ,U,T,D,9,9,1,3,0,1,7,4,8 12. Containers 13 Total 14. Unit Quantity 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Type Wt/Vol CA 611 Non-Hazardous Waste Solid EPA/Obes 0, 0, 1 | C, M | 0, 0, 0, 9, 5 | b. EPA/Other c. 2710 J. Additional Descriptions for Materials Listed Above GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacramento, CA Project #: 94817 PUTATNER# MP640920 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 17. Transporter 1 Acknowledgement of Receipt of Materials Pelated / Typed Name びるりじゅつ 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Signature 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 Month Day

TD:

OFFERING BECOED

06/09/92

RE:

LOADS HELTEVED BY HATE

MEHO #: 0609 0920

Reiler # MP640920 was manifested to Grassy Mountain usi manifest numbers in column A. The railer was unlose received at the facility using the load for in column B.

Manifest Load Weight 26/78 957 586/ 70020 5862 45740	
5927 46740	\$6.
5863 30480	
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26128 95 Tm. 1462401.	s s

See instructions on Back of Page 6 and Front of Page 7

Department of Health Servi Toxic Substances Control Divi: Sacramento, Califo.

orint or type. Form des	igned for use on elife			fandes!	· .	Page I		Sacramento, Calif
UNIFORM HA	ANIFEST	C, A, L, 0, 0, 0, 0				of 1 is not	edured	he sheded areas by Federal law.
Union Pacif 1416 Dodge	Street. Room	m - 4.10						26179
Omaha, NE Generator's Phone (68179 402, 271-22	61				S H Q 3 6	ı 0 ₁ 2	0, 7, 2, 4,
. Transporter 1 Compa	•	6.	US EPA ID Number		C. 84	de Transperter's E) ·	
Union Pacif		N ₁ E ₁	$D_1 O_1 O_1 I_1 7_1 9_1 2$	$\frac{9}{10}$				/271-2234
Transporter 2 Compa USPCI	Iny Name	8. T. V.	US EPA ID Number D ₁ 9 ₁ 8 ₁ 8 ₁ 0 ₁ 5 ₁ 2).		de Trensponer's E		18075-0454
Designated Facility I	Name and Site Addres		US EPA ID Number	14 7 4		ue Fecility's ID	000	7077-0454
USPCI Grass 3 miles eas	y Mountain : t. 7 miles :	Facility north				Phone	Ц.	
or Knolls,	UT - Exit 4	l off I-80 near	$0_19_19_11_13_10_11$				801	/59 5- 3900
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Additional Decomption	no for Materials Listes	d Above		1	K. He	eding Codes for V	antes L	letes Above
GM 91-1078	- Petroleum	Hydrocarbon Cr	t. Soil		€.		•	
					<u>c</u>		d.	
Special Handling Inc	tructions and Additio	nel information					<u> </u>	
ite addres		Pacific Railya	rd, Sacrament	o, CA				
Project #:	94817							
ONTAINER F	#UP3232	3						
GENERATOR'S CE and are classified.	RTIFICATION: I here	eby deciere that the content (abeled, and are in all respi						
national governmen		y th at i have a pr ogram in pi	ace to reduce the volume	and toxicit	of was	te cenerated to the	degree	i have determined
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	erator Certification o	f receipt of hezerdous mate		Heet except	es note	d in Item 19.		Mark G
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1-800-424-8802, WITHIN

CALL THE NATIONAL RESPONSE CENTER

AN EMERGENCY OR

CASE OF

TC:

OBERTAINING BECORD

615192

HE:

LOADS RECEIVED BY RATE

Railer # UP32323 was manifested to Grassy Mountain usi: manifest numbers in column A. The railcar was unloads received at the facility using the load is in column B.

A Menifort 20179 20179 20179	Weight 95 T
26179	
	190,000 15.

Load

(153,820 lbs.

Weight Discuspancy Yes No Of

Load Commeller's Initials _ 50

See instructions on Back of Page 6 and Front of Par 7

Department of Health Ser Toxic Substances Control Di-Secremento, Calif

WASTE MANIFEST C ₁ A ₁ L ₁ O ₁ O ₁ O ₁ O ₂ O ₁ O ₂ O ₁ O ₂ O ₁ O ₂ O ₂ O ₂ O ₂ O ₃ O ₄ O ₅	61 11	8į (of 1			by Federa
Union Pacific Railroad 1416 Dodge Street, Room 930							3261
Omaha, NE 68179 4. Generator's Phone (402) 271-2261			l	tto Gener	Marie (D.	ýú.	
Generator's Phone (4VZ) 2/1=2201 Transporter 1 Company Name 8. US EPA ID Number	,			PFK	ρp	h k	072
Union Pacific Railroad N.E.D.O.O.1.7.9	2,9	1,0			Phone:	~ 402	/271-
7. Transporter 2 Company Name 8. US EPA ID Numbe	•		E. 84	do Transp	erier's E		
USPCI T X D 9 8 8 0 5 9. Designated Facility Name and Site Address 10. US EPA ID Number		9 4		to Facilit		- 000	/8//-
USPCI Grassy Mountain Facility	•			1 1 1	1.1	1 1	, , ,
3 miles east, 7 miles north of Knolls, UT - Exit 41 off I-80 near Clive, UT		_		olity's Ph	(100) 11		
U T D 9 9 1 3 0		4 8		13, T	otel	801	/595 -
11. US DOT Description (Including Proper Shipping Name, Hazard Clase, and ID Number)		 No.	Туре		LEntity	Unit Wt/Vol	, v
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							EPA/OU
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GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil			8. .			b.	
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15. Special Handling instructions and Additional Information					-	<u> </u>	
Site address: Western Pacific Railyard, Sacramen Project #: 94817	to,	CA					
CONTAINER# MP642613							
GENERATOR'S CERTIFICATION: I hereby decises that the contents of this consumers is	re fully	end ac	crustely	describe	d above	by prope	r shipping
and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations.							
If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatment	t. atora:	DB. OF	1180086	CHITORITY	SASKEDIL	10 mp 4	MINER MINI
present and future threat to human neath and the environment: OR, if I am a small quantity generation and select the best waste management method that is available to me and that (general can af	tor, i h tord.	and was	e a good	farth end	MI 10 MM	инстр пту
Printed Typed Name Signature	5,						Month 7
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18. Transporter 2 Acknowledgement of Receipt of Materials					_		
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Printed/Typed Name Signature	andest :	excep	es note	ed in Item	19.		Month

RAIL RECONCILIATION FORM

ARRIVED 06/08/92

EPA ID # CAL000029500 GM91-1078

UNION PACIFIC RAILROAD COMPANY

RAILCAR # M #6426/3

GROUP LOAD # 920039836

MANIFEST # 26180 90826180	MANIFESTED WEIGHT 190000 Lbs	LOAD # 920005857A	SITE WEIGHT 46660	Lbs	RESOLVI WEIGHT 147920		BILL TONS 23.33
90826180	0 Lbs	9 20005859 A	45800	Lbs	0	Lbs	22.90
90826180	0 Lbs	92000607 4 A	55460	Lbs	0	Lbs	27.73
	190000 Lbs		147920	Lbs	147920	Lbs	73.96

DIFFERENCE -22.147%

WEIGHT DISCREPANCY YES

INITIAL K

DISCREPANCY RESOLVED (YES / NO INITIAL DATE OC/20/2)

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Ser Toxic Substances Control Dis Secremento, Cálii

UNIFORM HAZARDOUS	generator's US EPA ID No		Manriest		2. 1	Page 1	lotore	tettes in t	he sheded area
WASTE MANIFEST	C, A, L, O, O, O, O, 2	2 ₁ 9 ₁ 5 ₁ 0 ₁ 0	2 6 11	% 1		of 1	ia not	required	by Federal law
3. Generator's Name and Mailing Address Union Pacific Railro: 1416 Dodge Street, Ro					A. St	tto Maai	tent Çoçu		32618
Omaha, NE 68179 4. Generator's Phone (402) 271-22	61						Q 3,		. 0. 7. 2. 4
5. Transporter 1 Company Name	6.	US EPA ID N			C. Str	te Tree	person's	D	
7. Transporter 2 Company Name	lroad N E I	0, 0, 0, 1, 7		1, 0			re Phone		271-2234
USPCI		03 EPA 10 N		9, 4					877-0454
9. Designated Facility Name and Site Address USPCI Grassy Mountain		US EPA ID N				te Facil			<u> </u>
3 miles east, 7 miles of Knolls, UT - Exit	s north	ır Clive.	. UT		H. Fac	Wy's P	hane		
		0, 9, 9, 1, 3		4 8		-		801/	5 95- 3900
11. US DOT Description (Including Proper Shi	ipping Name, Hazard Class, a	nd (O Number)	12. No	Conta	Type		Total Duantity	14. Unit Wt/Vol	Wests
Non-Hazardous Waste	50114								CA 6
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GM 91-1078 - Petrole	ım Hydrocarbon (nt. Soil	•		c.			4	
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15. Special Handling Instructions and Addition Site address: Wester	el Information on Pacific Raily	ard. Sac	ramento		4			 	
Project #: 94817		, 040		, 01	. -				
CONTATUEN# MP64.	3592								
16.						·			
GENERATOR'S CERTIFICATION: I here and are classified, packed, marked, and is national government regulations.									
if I am a large quantity generator, I certify to be economically practicable and that it									
present and future threat to human health generation and select the best waste man	and the environment: OR, if I	am a small quar	intrly generator	r, I hav					
Printed / Typed Name	1	Signature (Month Day
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9. Discrepancy Indication Space					_				
O. Facility Owner or Operator Certification of		is covered by the	is manifest exc	Cept e	LB NOTEC	in item	19.		Month Oay

CALIFORNIA CALL 1 800-852-7550

CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1.800.424 8802; WITHIN

RAIL RECONCILIATION FORM

ARRIVED 06/11/92

EPA ID # CAL000029500 GM91-1078

UNION PACIFIC RAILROAD COMPANY

RAILCAR # MP643592

GROUP LOAD # 920039835

MANIFEST # 26181 90826181	WANTFESTED WEIGHT 190000 Lbs	LOAD # 920005990A	SITE WEIGHT 47660	Lbs	RESOLVE WEIGHT 159500			BILL TONS 23.83
	0 Lbs	9 20005992A	68180	Lbs	0	Lbs .	•	34.09
90826181	0 lbs	920005994A	43660	Lbs	o	Lbs		21.83
	190000 Lbs		159500	Lbs	159500	Lbs		79.75

DIFFERENCE -16.053%

WEIGHT DISCREPANCY YES

INITIAL A

DISCREPANCY RESOLVED YES INITIAL ____ DATE 06/26/9)

See instructions on Back of Page 6 and Front of Page 7

Department of Health Se. Toxic Substances Control D.

UNIFORM HAZARDOUS WASTE MANIFEST C1A,L,0,0,0,0,0,2,9,5,0,0,2	Mande Documen			at 1			he sheded ere: by Federsi law
3. Generator's Name and Making Address				ato Mas	Heat Door		00040
Union Pacific Railroad 1416 Dodge Street Rm. 930 Omaha, NE 68179 4 Generators Phone (402 271-2261			6L 86	ستة من	erator's O		<u> 32518</u>
Omana, NE 58179 4. Generator's Phone (404 27:1-2261	,		1				0, 7, 2, 4
5. Transporter 1 Company Name 6. US EPA ID Numb			C. 32	tio Tres	-	D	
Union Pacific Railroad N ₁ E ₁ D ₁ O ₁ O ₁ 1,7,9		1 0					2/2 71-22
7. Transporter 2 Company Name 8. US EPA ID Numb USPCI 1T X D 9 8 8 0 5		4.4			r's Phone		0/877-04
9. Designated Fecility Name and Site Address 10. US EPA ID Numb				ite Faci			0/0//-04
USPCI Grassy Mountain Facility 3 miles east, 7 miles north				Ш.	1.1.1.	1 1	
of Knolls, UT - Exit 41 off I-80 near Clive, U	T,	, 0		olity's F	Title	90	1/595–39
U ₁ T ₁ D ₁ 9 ₁ 9 ₁ 1 ₁ 3 ₁ 0	ن ب	_	amera	i 13.	Total	14.	T/333-33
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Non-Hazardous Waste Solid	١,	Δ. 1	C.V	0.0	. 0. 0. 5	i T	EPA/Other
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. Additional Occumptions for Materials Listed Above GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil	mento	, CA	e. C.	onating C	odae tor V	D.	EPA/Other:«
. Additional Occumptions for Materials Listed Above GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 5. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacran Project #: 94817	nento	, CA	e. C.	nating C	Codes for V	D.	EPA/Other-
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5. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacran Project #: 94817 ONTAINER # NKT/6400 6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditions.	are fully (and ac	G. G.	describ	ned above (d.	r ehipping name
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26184

SUBLE CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN

RAIL RECONCILIATION FORM

ARRIVED 06/11/92

EPA ID # <u>CAL000029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR # MKT 16400

GROUP LOAD # 920039833

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

DIFFERENCE -9.958%

WEIGHT DISCREPANCY NO

INITIAL A

See instructions on Back of Page 6 and Front of Page 7

Departmer Toxic Subsr

		1 1 8 5	2. F	of L	informa	ition in th	ik Dy'f:
3. Generator's Name and Mailing Address Union Pacific Railroad 1416 Dodge Street, Room 930 Omaha, NE 68179				ie Manifer	Dogga	908	261
4. Generator's Phone (402) 271-2261 5. Transporter 1 Company Name 8.	US EPA ID Number		_	βНΩ			01712141
	D, O, O, I, 7, 9, 2	9 1 0					/271-2234
7. Transporter 2 Company Name 8. USPCI 1. T. X.	US EPA ID Number D ₁ 9 ₁ 8 ₁ 8 ₁ 0 ₁ 5 ₁ 2	. 4, 9, 4		eporter's			7877-0454
9. Designated Facility Name and Site Address 10.	US EPA ID Number	1 1 -1 -1		to Facility		300	,0,, 0431
USPCI Grassy Mountain Facility 3 miles east, 7 miles north	ola		H. Fee	Hitty's Phon			
of Knolls, UT - Exit 41 off I-80 near $U_1U_1U_1$	D ₁ 9 ₁ 9 ₁ 1 ₁ 3 ₁ 0 ₁ 1	7 4 8	l			801	/595-3900
11. US DOT Description (Including Proper Shipping Name, Mazard Class,	and (O Number)	12. Cont No.	Type	13. To Qu	tal untity	14. Unit Wt/Vol	Wester No.
a. Non-Hazardous Waste Solid	·-						CA 611
ь.		0,0,1	C _I M	0,0,0	9 5	T	Shehmar
u .	'						EPA/COATH-
G.					Щ.		Statement
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	·		K. Hee	Cod			age a street
GM 91-10781-Petroleum Hydrocarbon Cn	t. Soil		A	2		D. ace	i i i i i i i i i i i i i i i i i i i
			c. .			d	
16. Special Handling Instructions and Additional Information							
15. Special Handling Instructions and Additional Information Site address: Western Pacific RAilyan Project #: 94817 GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respectively provided the program in pis to be economically practicable and that I have extended the practicable present and future threat to human health and the environment; OR, if generation and select the best waste management method that is averagement and select the best waste management method that is averagement.	t of this consignment are tots in proper condition for the to reduce the volume the method of treatment, it if am a small quantity ge stable to me and mat it c	fully and ac r transport t and toxicity storage, or c merator, i hi	y highwi y of wast tisposal	e generate currently a	ng to ap id to the valable	pricable degree to me w	international and i have determined nich minimizes the mize my waste
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-862-7660

RAIL RECONCILIATION FORM

ARRIVED 06/10/92

EPA ID # <u>CALO00029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034511

Manifest #	Manipested Weight	LOAD #	SITE Weight	RESOLVED WEIGHT	BILL Toms
2 6185 90 826185	190000 Lbs	920005916A	52820 Lbs	159820 Lbs	26.41
90826185	0 Lbs	9 20005920A	54140 Lba	0 Lbs	27.07
90826185	0 Lbs	9 200 05922 A	52860 Lbs	0 Lbs	26.43
	190000 Lbs		159820 Lbs	159820 Lbs	79.91

DIFFERENCE -15.884%

WEIGHT DISCREPANCY YES

INITIAL ____

DISCREPANCY RESOLVED YES INITIAL DATE / /

DH8 8022 A EPA 8700---22

Do Not Write Below This Line

Signature

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

Month Day

Printed/Typed Name

RAIL RECONCILIATION PORM

ARRIVED 06/10/92

EPA ID # <u>CAL000029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034512

MANIFEST # 26187 90826187	MANIFESTED WEIGHT 190000 Lbs	LOAD # 920005923A	SITE WEIGHT 79800	Lbs	RESOLVI WEIGHT 161640		BILL TOMS 39.90
90826187	0 Lbs	920005925 A	56100	Lbs	0	Lbs	28.05
90826187	0 Lbs	9 20005937 A	25740	Lbs	٥	Lbs	12.87
-	190000 Lbs		161640	Lbs	161640	Lbs	80.82

DIFFERENCE -14.926%

WEIGHT DISCREPANCY YES

INITIAL ___

DISCREPANCY RESOLVED (YES / NO INITIAL _____ DATE __/__/

See instructions on Back of Page 6

Department of Health Se-Toxic Substances Control O-Secremento, Gali

UNIFORM HAZARDOUS WASTE MANIFEST C,A,L,0,0,0,0,0,2,9,5,0,0	Manifest	2 5	age 1		Sacrame
WASTE MANIFEST C ₁ A ₁ L ₁ O ₁ O ₁ O ₁ O ₁ O ₁ O ₂ S ₁ S ₁ O ₁ O ₁ O ₂ T	о сипам 41 0. 6 1 8 8		into		the chaded ar by Federal H
3. Generator's Name and Mailing Address Union Pacific Railroad 1416 Dodge Street, Room 930 Omaha, NE 68179		A. Sta	to Gonzator's	Day	
4. Generator's Phone (402) 271-2261 6. Transporter 1 Company Name 6. US EPA ID Number		C. Sta	SIH Q 3	6 0r 2	F0F7F2
Union Pacific Railroad NED 0 0 1 7 9		D. Tra		+402/	271 C228
USPCIT_X, D, 9, 8, 8, 0, 5					877- 045
9. Designated Facility Name and Site Address USPCI Grassy Mountain Facility	•	G. Sta	to Facility's (D		1111
3 miles east, 7 miles north of Knolls, UT - Exit 41 off I-80 near Clive, UT	1, 7, 4, 8		Ely's Phone-	801/5	95-3900
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number)	12. Cont		13. Total Quantity	14. Unit	Week
a. Non-Hazardous Waste Solid	No.	Туре		Wt/Vo	Garage C
Non-nazardous waste Sorid	0,0,1	C ₁ M	0 0 0 9	5 T	""
b.					Statement :
		1	1.1.1		EPAJORA
c.					
d.	111	_ [L	Shakery
					EFS.(COmp.
J. Additional Decomptions for Materials Listed Above—	1 1 1	K. Ha	Codes 6	r Waster	A Lagrania de
1078 - Petroleum Hydrocarbon Cut. Soil	্র বিশ্ব ক্রেটিয়ার্ক্তি			Care Constitution	el de la companya de
		C.	And the second		
But the Common of the Common o					
15. Special Mandling Instructions and Additional Information					
Site address: Western Pacific Railyard, Sacramen Project #: 94817	to, CA				
Site address: Western Pacific Railyard, Sacramen Project #: 94817	to, CA				
Site address: Western Pacific Railyard, Sacrament Project #: 94817 60000A#MP640894 18. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment at	re fully and so	curately v hicken	described above according to	ve by props	er ehipping na:
Site address: Western Pacific Railyard, Sacrament Project #: 94817 Sound # MP 640 894 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment at and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volument.	re fully and action transport b	of west	ny according to a generated to	applicable the degree	international I have deterr
Site address: Western Pacific Railyard, Sacrament Project #: 94817 Souther # MP 640894 16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper conditions.	re fully and action transport to ne and toxicity i, storage, or d generator, i ha	of west	ry according to a generated to currently syste	the degree ble to me v	i international of have determined which minimize
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Site address: Western Pacific Railyard, Sacramen: Project #: 94817 Goung A # MP 640 894 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatment present and future threat to human health and the environment: OR, If I am a small quantity generation and select the best waste management method that is available to me and that I	re fully and action transport to ne and toxicity i, storage, or d generator, i ha	of west	ry according to a generated to currently syste	the degree ble to me v	i internacional o i have determinish minimize which minimize white my was
Site address: Western Pacific Railyard, Sacrament Project #: 94817 Govno A MP 640894 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the gracticable method of treatment present and interes threat to human health and the environment; OR, If I am a small quantity generation and select the best waste management method that is evaluable to me and that I Printed/Typed Name	re fully and action transport to ne and toxicity i, storage, or d generator, i ha	of west	ry according to a generated to currently syste	the degree ble to me v	i internacional o i have determinish minimize which minimize white my was
Site address: Western Pacific Railyard, Sacrament Project #: 94817 Gound # MP 640 894 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment present and future threat to human health and the environment. On, If I am a small quantity generation and select the best waste management method that is available to me and that I Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Signature Signature 18. Transporter 2 Acknowledgement of Receipt of Materials	re fully and action transport to ne and toxicity i, storage, or d generator, i ha	of west	ry according to a generated to currently syste	the degree ble to me v	i internacional o i have determinish minimize which minimize white my was
Site address: Western Pacific Railyard, Sacramen: Project #: 94817 Goung A # MP 640 894 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition: If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatment present and future threat to human health and the environment: OR, If I am a small quantity generation and select the best waste management method that is available to me and that I Printed/Typed Name Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Signature Signature Signature Signature Signature Signature Signature	re fully and action transport to ne and toxicity i, storage, or d generator, i ha	of west	ry according to a generated to currently syste	the degree ble to me v	Adoption of the second of the
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Site address: Western Pacific Railyard, Sacrament Project #: 94817 Goulde A # MP (40 894) 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment present and future threat to human health and the environment: OR, If I am a small quantity generation and select the best waste management method that is available to me and that I Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Signature Signature Printed/Typed Name Signature Signature Signature Printed/Typed Name	re fully and action transport to ne and toxicity i, storage, or d generator, i ha	of west teposel	ry according to a generated to currently syste	the degree ble to me v	Alenth Od Martin Od Marth Od M
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TO:

OPERATURE RECORD

DATE:

5128192

RE:

LCADS RECEIVED BY RATE.

Railcar # MP640894 was manifested to Grassy Mountain usi manifact numbers in column A. The railor was unload: received at the facility using the load is in column B.

A Menifort Weight 26/88 95 T 26/88	E Load 5567 5569 5580	Weight 47,400 44,620 59,760
Weight Discharge Yes/No	OK	151,780 lbs.

Load Commoiler's Initials

See instructions on Back of Page 6 and Front of Page 7

Department of results Sen-Toxic Substances Control Div Secrements, Calife

WASTE MANIFEST C,A,L,O,O,O,O,O,2,9,5,O,O	Manifest Occument No. 9		of 1 is n		he sheded areas by Federal law.
3. Generator's Name and Mailing Address Union Pacific Railroad 1416 Dodge Street, Room 930 Omaha. NE 68179		A. Sta		908	26189
Omaha, NE 68179 Generator's Phone (402) 271-2261 Transporter & Company Name 6. US EPA ID Number		_	SH Q 3	6,0-2	Opi7; 2, 4, -
Union Pacific Railroad N, E, D, O, O, 1, 7, 9		C. Sta O. Tra		4027	271-2254
Transporter 2 Company Name 8. US EPA ID Number USPCI 1, T, X, D, 9, 8, 8, 0, 5,				8007	877=0454
O. Coeignated 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		G. 8to	to Footby's Sp		
of Knolls, of - Exit 41 off 1-ou hear clive, of		12 100	#2 	\108	595=3900
1. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Cont	Type	13, Total Quantity	14. Unit Wt/Voi	2: Weste Ma.
Non-Hazardous Waste Solid					CA_6
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GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil		K Had		Manian d	
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GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 5. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacramen	nto, CA	L ine	American St. Communication of the Communication of	Business of the second	
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GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 5. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacramen Project #: 94817 GONDOLA # MKT 16467 8. GENERATOR'S CENTERCATION: I hereby declare that the contents of this consignment a and are classified, packed, marked, and lebeled, and are in all respects in proper condition	are fully and ac	Chair			
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 5. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacramen Project #: 94817 GONDOLA # MKT 16467 6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment a	are fully and ac for transport b me and toxicity M, storage, or o generator, I ha	Curately y highway	o generated to currently available	applicable the degree ole to me w	i have determined thick manimizes the
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5. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrament Project #: 94817 6. MDOLA # MKT 16467 6. GENERATOR'S CENTERCATION: I hereby declare that the contents of this consumers and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatmen present and future threat to human health and the environment; OR, If I am a amail quantity generation and select the best waste management method that is available to me and that interest to human health and the environment; OR, If I am a amail quantity generation and select the best waste management method that is available to me and that interest in the program of the property of Materials 7. Transporter 1 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials 18. Transporter 1 Acknowledgement of Receipt of Materials	are fully and act for transport to me and toxicity it, storage, or or generator, i hi i can afford.	Curately y highway	o generated to currently available	applicable the degree ole to me w	interrectional and i have determined initial minimizes the imize my waste Month Day Y Signify Month Pay X
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P CASE

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

RAIL RECONCILIATION FORM

ARRIVED 06/05/92

EPA ID # <u>CAL000029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034513

MANIFEST # 26189 90826189	WRIGHT 190000 Lbs	LOAD # 920005798A	SITE WEIGHT 75840 L	Lbe	RESOLVI WRIGHT 164640		BILL TONE 37.92
90826189	0 Lbs	9 20005799A	70840 L	ம்க	o	Lbs	35.42
90826189	0 Lbs	9 20005801 A	17960 L	bs	0	Lbs	8.98
	190000 Lbs	· · · · · · · · · · · · · · · · · · ·	164640 L	bs	164640	Lbs	82.32

DIFFERENCE -13.347%

WEIGHT DISCREPANCY YES

INITIAL ____

DISCREPANCY RESOLVED (YES) / NO INITIAL ____ DATE

Printed/Typed Name

Signature

Month Day Yes

1 1 1 1 1

ASSY MNTN. TO 9-19169212025

TD:

Charagamate Kracors

DATE:

5128192

RE:

LOADS RECEIVED BY RATE.

Railcar # MP642010 was manifested to Grassy Mountain usi manifest numbers in column A. The railest was unload received at the facility using the load is in column B.

A Hanifest Weight 2690 95 T	E 1 cad 5553 5554 5505	Weight 43,840 43,940 81,000
	· ———	
		
190,000 lbs.		167,800 lbs.
Weish: Dismayancy Zes/No	OV-	

Load Consuller's Initials _ _____

Printed Typed Name / Ox (Fex Co.) Signature	A Month Day Yo
Koucian Red Taronthames hely bogeard	951749
17. Transporter 1 Acknowledgement of Receipt of Materials	
Printed/Typed Name Uni Sulation Signature Signature	Month Day Yo
Toucon performance folia	PS D1210
18. Transporter 2 Acknowledgement of Redeipt of Materials	

Printed/Typed Name Month Day Signature

9 CASE

ACI

à editions ere obsolete.

19. Discrepancy indication Space

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

Do Not Write Below This Line

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
261 9 1 90 826191	190000 Lbs	920005727A	17300 Lbs	159240 Lbs	8.65
90826191	0 Lbs	920005728A	85600 Lbs	0 Lbs	42.80
90826191	0 Lbs	9 20005732A	43200 Lbs	0 Lbs	21.60
90826191	0 Lbs	920005734 A	13140 Lbs	0 Lbs	6.57
	190000 Lbs		159240 Lbs	159240 Lbs	79.62

DIFFERENCE -16.189%

WEIGHT DISCREPANCY YES

INITIAL __

DISCREPANCY RESOLVED (YES / NO INITIAL ____ DATE

RAIL RECONCILIATION PORM

ARRIVED 06/02/92

EPA ID # <u>CAL000029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034515

MANIFEST # 26192 90826192	WEIGHT 190000 Lbs	LOAD # 920005678A	SITE WEIGHT 55300	Lbs	RESOLVI WEIGHT 168980		BILL TOMS 27.65
90826192	O Lbs	920005680A	67840	Lba	0	Lbs	33.92
90826192	0 Lbs	9 20005726 A	45840	Lbs	0	Lbs	22.92
······································	190000 Lbs		168980	Lbs	168980	Lbs	84.49

DIFFERENCE -11.063%

WEIGHT DISCREPANCY YES

INITIAL

DISCREPANCY RESOLVED YES INITIAL DATE

print or type. Form designed for use on elite (th typewnter).	Front of Pa				Toxic 8	Sacrem
UNIFORM HAZARDOUS CALLO O O O O O O O O O O O O O O O O O O	Mandest Document No. 2 6 1 9		Page 1 of 1	1 .		he sheded (by Federsi
3. Generator's Name and Mailing Address Union Pacific Railroad		A. 81	ale Manife		908	3261
1416 Dodge Street, Room 930 Omaha, NE 68179 4. Generator's Phone (402) 271-2261		8. St	L S, H		SA:	O, 7, 2
5. Transporter 1 Company Name Union Pacific Railroad N ₁ E ₁ D ₁ O ₁ O ₁ 1 ₁ 7 ₁ 5	_		de Trans		== ΔΩ	2/2/1-
7. Transporter 2 Company Name 8. US EPA ID Numb			de Traver			21.21 1-
USPCI T ₁ X ₁ D ₁ 9 ₁ 8 ₁ 8 ₁ 0 ₁ 5					- 80	0/877-
9. Designated Facility Name and Site Address 10. US EPA ID Numb USPCI Grassy Mountain Facility	107	G. 84	sto Facilit 	7'6 83	f 1 1	1 1 1 1
3 miles east, 7 miles north of Knolls, UT - Exit 41 off I-80 near Clive, UT	1. 1. 7. /. (1	oliny's Ph		20	1/595-
	12. Con		13. T		14.	1/3/3-
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	Na.	Туре	Q1	uentity	Unit Wt/Vol	- We
Non-Hazardous Waste Solid						CA
	0,0,	GM	99	995	Т	(miles
b .						Similar
		,	1 1	1 1		EPA/ON-
2.				<u> </u>		Statement.
		١.				Contract Spirits
d.			<u> </u>			Statemen .
J. Additional Coccuptions for Managinia Listed Above— GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil		K. Ho	- P		B. BR EAC	
		Ballia.			Lane	
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil		- Bathiria			Leave .	
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Handling Instructions and Additional Information	ento. CA	Ballia.			B. Berry	
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817	ento, CA	Ballia.	Control of the contro		B. M. W.	
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Hendling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817 GONOCLA#641489	ento, CA	Ballia.	- Co		E. Common of the	
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817 God Col A# 64/489		(* 6 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Hendling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817 GONOCLA#641489	are fully and ac	Q	describes	d above b	butto Additional Section of the Control of the Cont	
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Mandling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817 GENERATOR'S CERTS'CATION: I hereby declars that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the vok	are fully and ac a for transport i	Q	describes	d above to	piicable i degree i	shipping naturations
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GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Handling instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817 GENERATOR'S CERTIFICATION: I hereby declars that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditionational government regulations. If I am a large quantity generator, I carrier that I have a program in place to reduce the voice to be economically practicable and that I have selected the practicable method of treatme present and inture threat to human health and the environment: OR, If I am a small quantity generation and select the best waste management method that is available to me and their	are fully and ac a for transport t ime and toxicit mt. storage, or o	Curately y highw	describes sy accord	d above to ing to applicate to the available	degree i to me wi	ahipping naturations I have determined my wa
GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil 15. Special Handling Instructions and Additional Information Site address: Western Pacific Railyard, Sacrame Project #: 94817 GENERATOR'S CENTETCATION: I hereby declara that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditionational government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the vole to be economically practicable and that I have assected the practicable method of treatment present and future threat to human health and the environment; OR, If I am a small quantity generation and select the best waste management method that is available to me and the property of the page of the	are fully and ac a for transport t ime and toxicit mt. storage, or o	Curately y highway of wast lispose in the made	describes sy accord	d above to ing to apply the state of the available faith effor	degree i to me wi	ahipping naturations I have determined manufactured by we
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RAIL RECONCILIATION FORM

ARRIVED 06/02/92

EPA ID # <u>CAL000029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034516

	Manifested		SITE		RESOLV	ED	BILL
Hanifest 🗲	Weicht	LOAD #	WBIGHT		WEIGHT		TOME
26193	190000 Lbs	920005672A	41220	Lbs	166860	Lbs	20.61
90826193							
	O Lbs	920005674A	49480	Lbs	0	Lbs	24.74
90 826193	•						
	O Lbs	9 20005675 A	36440	Lbs	٥	Lbs	18.22
90826193						•	
	Q Lbs	9 20005676A	22700	Lbs	0	Lbs	11.35
90826193							
	0 Lbs	920005677A	17020	Lbs	0	Lbs	8.51
90826193			2		_		
	190000 Lbs		166860	Lbs	166860	Lbs	83.43

DIFFERENCE -12.179%

WEIGHT DISCREPANCY YES

INITIAL

DISCREPANCY RESOLVED (YES// NO INITIAL ____ DATE

See instructions on Back of Page 6 and Front of Page 7

Department of Health Service Substances Control Division Secremento, California

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3. Generators Name and Mailing Address Union Pacific Railroad			A. \$14	do Manii	est Docum	908	26194
1416 Dodge Street, Room 930 Omaha, NE 68179 4. Generator's Phone (402 271-2261			8. Sta	SH	THE D	ú.	0; 7; 2; 4;
5. Transporter I Company Name 8.	US EPA ID Number		C. Sta	to-Trem	perter/a () -	
Union Pacific Railroad N.E. Transporter 2 Company Name 8.	D 0 0 1 7 9	2,9,1,0			o Proces		/271-2234
It with the same of the same o	D,9 8 8 0 5	2,4,9,4	F. Tra		e Phone-	800,	/877- 0454
USPCI Grassy Mountain Facility 10.	US EPA ID Number	,	G. Sta	te Facili	N's ID		
3 miles east, 7 miles north of Knolls, UT - Exit 41 off I-80 near	r Clive, UT		H. Fee	183y's F9	000		
tu_T	D ₁ 9 ₁ 9 ₁ 1 ₁ 3 ₁ 0 ₁						/595-3900
US DOT Description (Including Proper Shipping Name, Hezard Class	a, and ID Number)	12. Cont	Type		Total luentity	14. Unit Wt/Vol	Waste Mo.
Non-Hazardous Waste Solid				'			CA. 611
		0,0,1	CIM	0,0,	0,9,5	T	EFFORMATION OF THE PROPERTY OF
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	nt. Soil		K. Ha	I I	 dec tor W	Control A	EPA/Gharman stad-Abarman Stag-pro- Dis
GM 91-1078 - Petroleum Hydrocarbon Cr 5. Special Handling instructions and Additional information				Co	ideo tor W		Allegare
15. Special Handling Instructions and Additional Information Site address: Western Pacific Railya Project #: 94817 GONDOLA # MPC 409/3 16. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all responsational government regulations. If I am a large quantity generator, I certify that I have a program in properties and future threat to human health and the environment; OR, generation and select the best waste management method that is a printed/Typed Name Orinted/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials	and, Sacrament are of this consignment are extens proper condition in the consistency of the condition in th	re fully and actor transport to the and toxicity to storage, or o generator, i hi can stord.	curately y nighw	ey eccor e genera currently e e good	ed above i	d	r chipping name internasional and
GM 91-1078 - Petroleum Hydrocarbon Cr. 5. Special Handling Instructions and Additional Information Site address: Western Pacific Railya Project #: 94817 GONDOLA # MPLY09/2 6. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all respirational government regulations. If I am a large quantity generator, I certify that I have a program in picto be economically practicable and that I have selected the practice present and future threat to human health and the environment; OR, generation and select the best waste management method that is a critical Typed Name. Printed Typed Name 7. Transporter 1 Acknowledgement of Receipt of Materials	and, Sacrament are of this consignment are ects in proper condition to take to reduce the volument of treatment. If I am a specifi quantity of valuable, to me and mat i	re fully and actor transport to the and toxicity to storage, or o generator, i hi can stord.	curately y highwas of wast lisposel we mad	ey eccor e genera currently e e good	ed above i	d	r ehipping name internesional and i have determined high minimizes the imize my waste.
GM 91-1078 - Petroleum Hydrocarbon Cr. 5. Special Handling instructions and Additional information Site address: Western Pacific Railya Project #: 94817 GONDOLA MPC 40913 6. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all responsitions. If I am a large quantity generator, I certify that I have a program in proper and future threat to human health and the environment; OR, generation and select the best waste management method that is a crimical Typed Name **Trining**Typed Name **Transporter**1 Acknowledgement of Receipt of Materials **Transporter**2 Acknowledgement of Receipt of Materials **Transporter**2 Acknowledgement of Receipt of Materials	and, Sacrament are of this consumers are extended in proper condition to place to reduce the volument of treatment. If I am a specifiquently to me and that in the state of th	re fully and actor transport to the and toxicity to storage, or o generator, i hi can stord.	curately y highwas of wast lisposel we mad	ey eccor e genera currently e e good	ed above i	d	r shipping name international and i have determined high minimizes the mixto my waste. Month Day You DSTASS
GM 91-1078 - Petroleum Hydrocarbon Cr. 15. Special Handling Instructions and Additional Information Site address: Western Pacific Railya Project #: 94817 GowDow A # MPC 40913 16. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all responsitional government regulations. If I am a large quantity generator, I certify that I have a program in put to be economically practicable and that I have selected the practical present and future threat to human health and the environment; OR, generation and select the best waste management method that is a printed/Typed Name	and, Sacrament are of this consignment are extens proper condition in the consistency of the condition in th	re fully and actor transport to the and toxicity to storage, or o generator, i hi can stord.	curately y highwas of wast lisposel we mad	ey eccor e genera currently e e good	ed above i	d	r ehipping name internesional and i have determined high minimizes the imize my waste.
GM 91-1078 - Petroleum Hydrocarbon Cr. 15. Special Handling Instructions and Additional Information Site address: Western Pacific Railya Project #: 94817 GONDOLA # MPC 409/3 16. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all response government regulations. If I am a large quantity generator, I certify that I have a program in p to be economically practicable and that I have selected the practical present and future threat to human health and the environment; OR: generation and select the best waste management method that is a printed/Typed Name Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials	and, Sacrament are of this consumers are extended in proper condition to place to reduce the volument of treatment. If I am a specifiquently to me and that in the state of th	re fully and actor transport to the and toxicity to storage, or o generator, i hi can stord.	curately y highwas of wast lisposel we mad	ey eccor e genera currently e e good	ed above i	d	r shipping name international and i have determined high minimizes the mixto my waste. Month Day You DSTASS
GM 91-1078 - Petroleum Hydrocarbon Cr. 5. Special Handling Instructions and Additional Information Site address: Western Pacific Railya Project #: 94817 GONDOLA # MPL40913 6. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all respirational government regulations. If I am a large quantity generator, I certify that I have a program in pint to be economically practicable and that I have selected the practical present and future threat to human health and the environment; OR, generation and select the best waste management method that is a printed Typed Name Printed Typed Name 8. Transporter 1 Acknowledgement of Receipt of Materials Grided Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials	and, Sacrament are of this consument are of this consument are sects in proper condition (solice to reduce the volume able method of (seatment of the section of the sectio	re fully and actor transport to the and toxicity, storage, or o generator, i he can stord.	curately y highword of west imposed we mad	e genericularentiy	ad above iding to appropriate the available trath effor	d	r shipping name international and i have determined high minimizes the mixto my waste. Month Day You DSTASS

CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-862-7650

RAIL RECONCILIATION PORM

ARRIVED 06/10/92

EPA ID # <u>CALO00029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034517

MANIFEST # 26194 90826194	MANIFESTED WEIGHT 190000 Lbs	LOAD # 920005911A	SITE WEIGHT 45660 Lbs	RESOLVED WEIGHT 166660 Lbs	BYLL TOMS 22.83
90826194	0 Lbs	920005912A	53900 Lbs	0 Lbs	26.95
90826194	0 Lbs	9 20005913A	67100 Lbs	O Lbs	33.55
	190000 Lbs		166660 Lbs	166660 Lbs	83.33

DIFFERENCE -12.284%

WEIGHT DISCREPANCY YES

INITIAL _

DISCREPANCY RESOLVED /YES / NO INITIAL DATE

OHS 6022 A EPA 6700—22 (Rev. 6-89) Previous editions are obsolete.

Printed/Typed Name

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L

Do Not Write Below This Line

Signature

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

Month Day

RAIL RECONCILIATION PORM

ARRIVED 06/02/92

EPA ID # <u>CALOOO029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034518

	Nani Fested		SITE	RESOLVED	BILL
Kanifest #	Weight	LOAD #	WEIGHT	Wright	TOME
2 5195 90 826195	190000 Lbs	920005648A	40400 Lbs	151480 Lbs	20.20
	0 Lbs	9 20005650A	30500 Lbs	0 Lbs	15.25
90826195	0 Lbs	9 20005652A	44620 Lbs	0 Lbs	22.31
90826195	0 Lbs	92 0005653A	35960 Lbs	0 Lbs	17.98
90826195					
•	190000 Lbs		151480 Lbs	151480 Lbs	75.74

DIFFERENCE -20.274%

WEIGHT DISCREPANCY YES

INITIAL __

DISCREPANCY RESOLVED YES

INITIAL ____ DATE

CHS 8022 A EPA 8700---22 (Rev. 6-89) Previous editions are obsolets.

Printed/Typed Name

Do Not Write Below This Line

Signature

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

Month Day Yes

RAIL RECONCILIATION FORM

ARRIVED 06/08/92

EPA ID # CALO00029500 GM91-1078

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034519

MANIFEST #- 26196 90826196	WANIFESTED WEIGHT 190000 Lbs	LOAD # 920005838A	SITE Weight 48840 L	bs	RESOLVE WEIGHT 160520		BILL TOKÉ 24.42
90826196	0 Lbs	9 20005847A	5 2520 L	,b s	o .	Lbs	26.26
	0 Lbs	920005852A	59160 L	ьs	0	Lbs	29.58
90826196	100000 11	· ·					
	190000 Lbs		160520 L	ರಿಕ	160520	Lbs	80.26

DIFFERENCE -15.516%

WEIGHT DISCREPANCY YES

INITIAL ____

DISCREPANCY RESOLVED (NO INITIAL DATE /

PRINTED ON 06/26/92

* NOT DEPARTED

See instructions on Back of Page 6 State of California-Health and Welfare Agency Toxic Substances Control Di Form Approved OMB No. 2050-0039 (Expires 9-30-91 and Front of Pa Segremento, Cali Please print or type. Form designed for use on evile s ich typewner). 2. Page 1 1. Generator's US EPA ID No. Mandage **UNIFORM HAZARDOUS** information in the sheded areas C, A, L, O, O, O, O, 2, 9, 5, O, O 2, 6, 1 19 WASTE MANIFEST 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 US EPA IO Number | N| E| D| O| O| 1| 7| 9| 2| 9| 1| 0 US EPA ID Number 7. Transporter 2 Company Name T, X, D, 9, 8, 8, 0, 5, 2, 4, 9 USPCI 1.800 US EPA ID Number 9. Designated Facility Name and Site Address USPCI Grassy Mountain Facility CALL 3 miles east, 7 miles north of Knolls, UT - Exit 41 off I-80 near Clive, UT 801/595=3900 1 U1 T1 D1 91 91 11 31 01 11 71 41 8 12. Container 13. Total 14. Unit Quantity 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number) Туре No. __CA_611 Non-Hazardous Waste Solid a 0 0 1 1 0 14 0 0 0 9 5 EXER ь. c. 1.800 ---CENTER ---STOREST CONTRACT MAY RESPONSE A Constitute for Materials & Inter Abore A Company (Salara) 7.5 GM 91-1078 - Petroleum Hydrocarbon Cnt. Soil ---TO SEE SEE ing states of 15. Special Hendling Instructions and Additional Information Site address: Western Pacific Railyard, Sacramento, CA Project #: 95817 94817 Project #: CALL 16. GENERATOR'S CERTIFICATION: I hereby decigns 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 all SPILL, national government regulations. e and toxicity of waste generated to the degree i have determined a storage, or diagonal currently available to me which minimizes the If I am a large quentity ge erator, i certify that I have a program in place to rod 5 to be economically practicable and that I have existed the practicable method of treatment, storage, or disposal currently available to me present and future threat to human health and the enveronment; OR, if I am a small quantity generator, I have made a good faith effort to m EMERGENCY generation and select the best waste management method that is available to me and that I can afford. Dav Printed/Typed Name Transporter 1 Acknowledgement of Receipt of Materials d/Typed Nam くんのうしん 9 18. Transporter 2 Acknow t of Receipt of Materials Printed/Typed Name Signature Day 19. Discrepancy Indication Space å

OHS 6022 A EPA 6700—22 (Rev. 6-89) Previous editions are obsolets.

Printed/Typed Name

Do Not Write Below This Line

Signature

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

Month Day

RAIL RECONCILIATION FORM

ARRIVED 06/08/92

EPA ID # <u>CALOO0029500</u> <u>GM91-1078</u>

UNION PACIFIC RAILROAD COMPANY

RAILCAR #

GROUP LOAD # 920034520

MANIFEST # 26197 90826197	MANIPESTED WEIGHT 190000 Lbs	LOAD # 920005823A	SITE WEIGHT 46120 Lb	WEIGHT DE 161120 1	_	BILL TOMS 23.06
90826197	0 Lbs	9 20005826A	44800 Lb	es 0.1	Lbs	22.40
90826197	0 Lbs	9 20005830A	7 0200 Lb	os 0 1	Lbs	35.10
	190000 Lbs	 	161120 Lb	s 161120 I	<u>.</u>	80.56

DIFFERENCE -15.200%

WEIGHT DISCREPANCY YES

INITIAL ____

DISCREPANCY RESOLVED PES NO INITIAL ____ DATE

Appendix

APPENDIX C LIST OF TRUCK WEIGHT TICKETS AND TONNAGE

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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

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

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

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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

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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.